



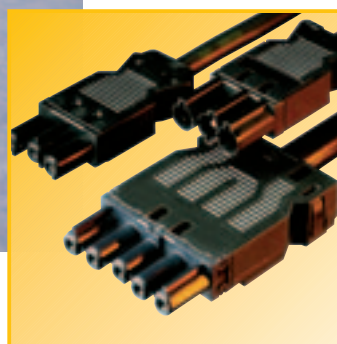
wieland

Electrical
Connections

gesis[®]

Components

**The Pluggable Electrical
Installation System**





Commerzbank, Frankfurt



Platz-Haus, Saulgau



Meyer Werft, Papenburg



Petronas Towers, Kuala Lumpur



Polizei Stern, Hamburg

The connectable electrical installation

gesis[®]

"Electrical installation – past and present"

In the past, each individual connection in the electrical installation had to be wired via terminals and required lengthy and painstaking attention to detail. This took an enormous amount of time and involved considerable costs – without taking into account the numerous sources of error and potentially extensive reworking.

This all changed with the introduction of the **gesis** connector system which revolutionised electrical installations. Prefabricated components simply need to be plugged together – time-consuming tasks such as cutting cables to length, stripping the insulation and

connecting individual elements to the terminals are no longer required. Only a few operations and the power, bus or signal connections remain: reliable, error-free, clear and in a fraction of the time required for conventional wiring. There is also a considerable cost reduction as a result.

One system, only a few components and unlimited possibilities – these are the essential features of **gesis**. Everything can be universally connected from the distribution board to the load, thus opening up a new dimension. This is exemplified by two buildings in

Frankfurt, currently the highest office building in Europe and the Petronas Towers in Kuala Lumpur which is the highest building in the world to date. Both of these buildings are equipped with **gesis**.



Yesterday

Today

If you require further information about the **gesis** connector system in practice and its applications, simply request your complete **gesis** manual which includes a CD.



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GST 18

The components of the GST 18 product range which have been certified according to DIN VDE 0628 are suitable for the installation of lighting systems, switches and sockets. They are available in three, four, five and six pole versions and are designed for 250 V or 250/400 V, 16 A.

BST / EST

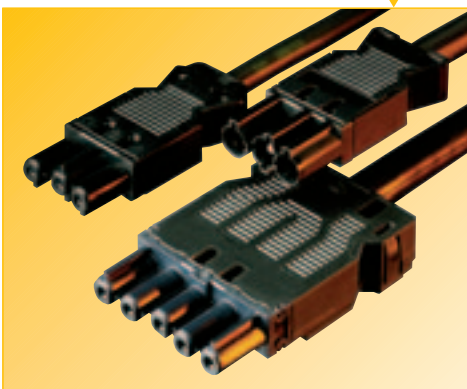
Three ranges are available for the transfer of two pole EIB Bus signals. Depending on the requirements, you can choose between the pure bus connector BST or the combination connectors of the EST range. These twin connectors prove extremely practical wherever power and signals are needed equally.

Products of this range are characterised by green EIB coding systems.

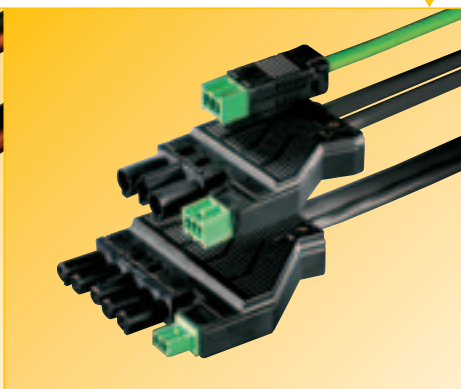
Flat cable systems

The flat cable technology can probably be regarded as a revolution in the field of electrical installation. The basis of the flat ribbon cable whose sheath houses five isolated conductors for power distribution as well as a two pole, screened signal cable, all led in parallel. If only one version is required, the flat cables are also available separately.

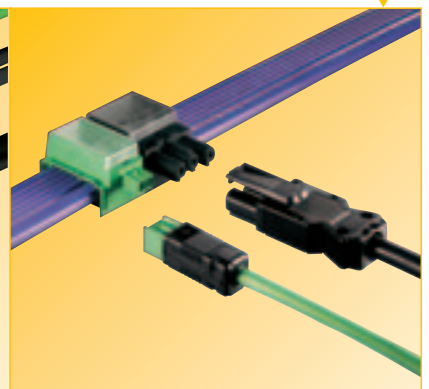
Components with 2, 3, 4, 5 and 6 poles



Combination connector for energy and signals



Connection to the flexible busbar



One variant – which is not mechanically segregated – takes over the transfer of bus, control or loudspeaker signals.

Contact is established using insulation-piercing technology and can take place at any point on the main phase. It is possible to connect to the required product range without interrupting the cable.

Low voltage systems

The system also extends to low voltage technology. It is possible to change over directly to the two different low voltage ranges, ST 16 and ST 17, via connectable, electronic transformers.

EIB-Systems

Distributed EIB switching devices can be integrated as required in the installation. They are of course connectable. There are two basic types of EIB switching devices: EIB V which are characterised by their flat and compact design and EIB M which is a solution composed of individual modules which offers a high level of flexibility.

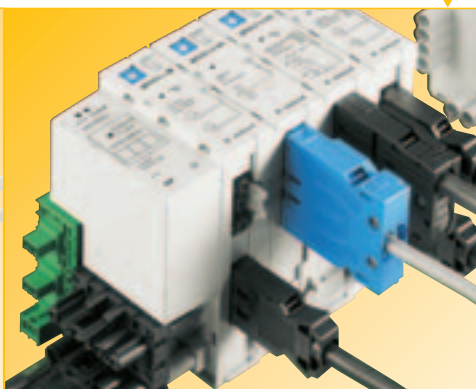
Terminal boxes

Terminal boxes offer an individual solution for installations. They are made from galvanised sheet steel and fitted with TS 35 mounting rails. They can hold terminals as well as DIN rail mounted devices in any structure. The interface to the terminal units takes place via the **gesis** connector system.

Connectable low voltage systems



Distributed EIB switching devices can be integrated



Terminal boxes



gesis®

Electrical installation is connectable:

“Goes into the ceiling”

One benefit of **gesis** which is becoming increasingly noticeable in daily practice is the extremely compact design of the devices and the resulting small amount of room required. This enables a simple and efficient wiring process on all levels. An example of this is suspended ceilings which offer an ideal space for installations with **gesis**.

“Always along the wall”

Space-saving solutions are demanded in cable trunking. **gesis** is ideal in these situations. Due to the small dimensions of the individual components, the connector system can be used without any limitations and can also save time. In the short term, you create connections exactly where they are required: you then simply need to attach sockets, switches or shutter control systems.

“The bus is rolling”

Building installation systems and decentralised control are standard nowadays in modern functional buildings. This can be carried out practically and economically with the European Installation Bus (EIB). Monitoring, control and measuring functions can be distributed and information can be exchanged via a single cable.



Even complex lighting systems can be assembled locally and simply plugged in using prefabricated luminaires which are already offered as standard by numerous manufacturers. Electricians and builders no longer need to be on site at the same time since connection errors can be ruled out due to the optimum level of safety provided by **gesis**.

Even an adaptation to include new supply requirements can be carried out without any problems.

“Insert into the floor”

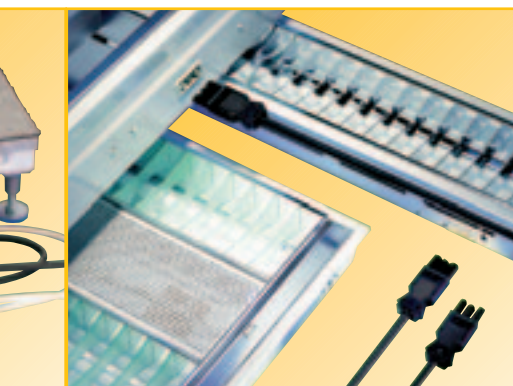
gesis enables clear and flexible cable management even when wiring in raised access floors. The installation runs freely in the floor voids but also has a structure. Even complex installations only need to be plugged in, together with distribution boards or branch circuits. Power is fed invisibly to the respective areas and only connected to underfloor mains sockets inserts which have been pre-assembled by the manufacturer.

A convenient installation structure can be efficiently created using the connectable **gesis** system. With **gesis** EIB, an intelligent device concept which is EIB compliant, **gesis** goes one step further. A truly distributed bus system is realised from the sensor to the actuator. It also integrates components which do not have a direct bus interface.

The new generation of switching devices, **gesis** EIB M2, considerably

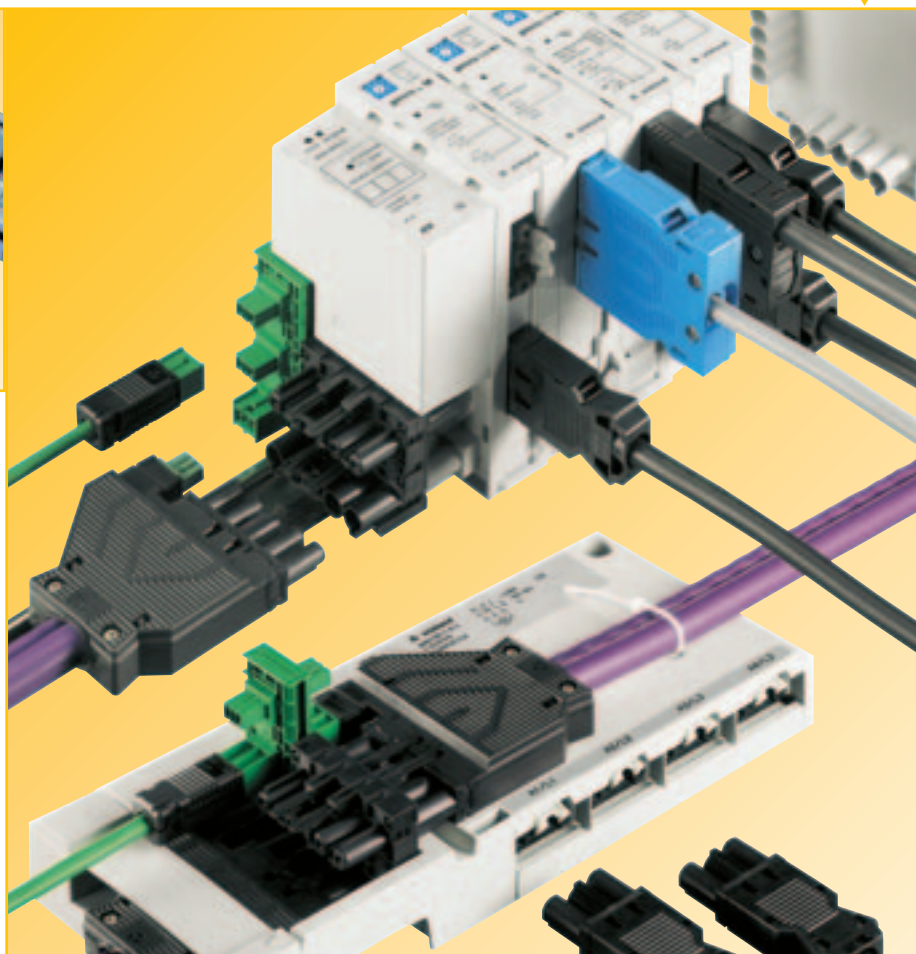
increases the already high level of flexibility. Depending on requirements, up to six extension modules can be connected to a basic module. It is possible to select freely between 4 fold inputs 24 V DC or 230 V AC, 2 fold switch outputs, shutter outputs and switch/dimming outputs. For example, two offices each with a shutter, two lighting circuits and conventional push buttons, can be fully equipped with EIB using only one EIB device.

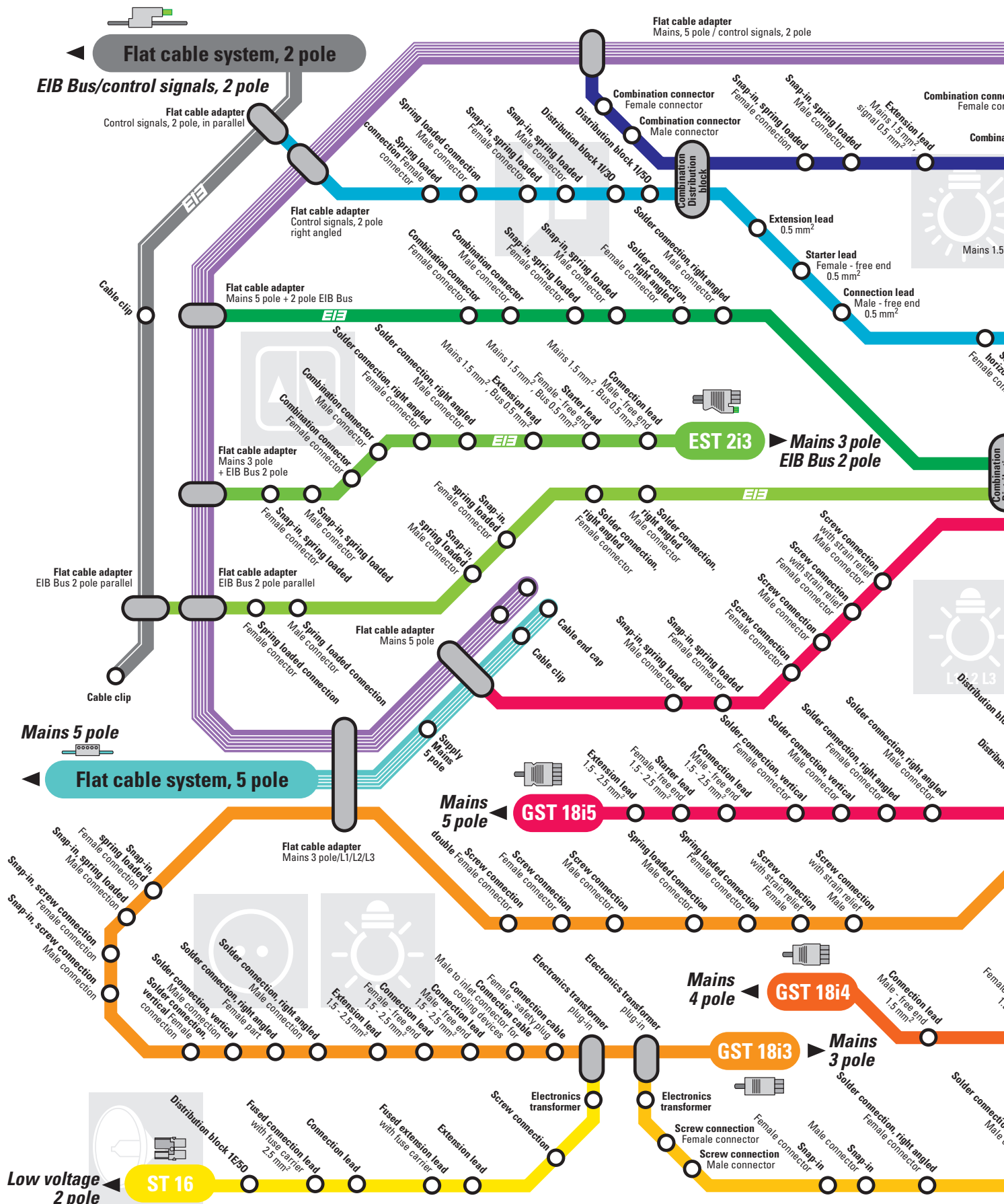
The flat device range, **gesis** EIB V, is extremely flexible and can be directly mounted onto the 7 pole flat cable system. This flat cable consists of five isolated conductors for power distribution as well as a parallel, 2 pole bus cable. Contact is established using insulation piercing technology and can take place at any point on the cable. Bus and power for the EIB V switching devices are drawn via a plug-in adapter.

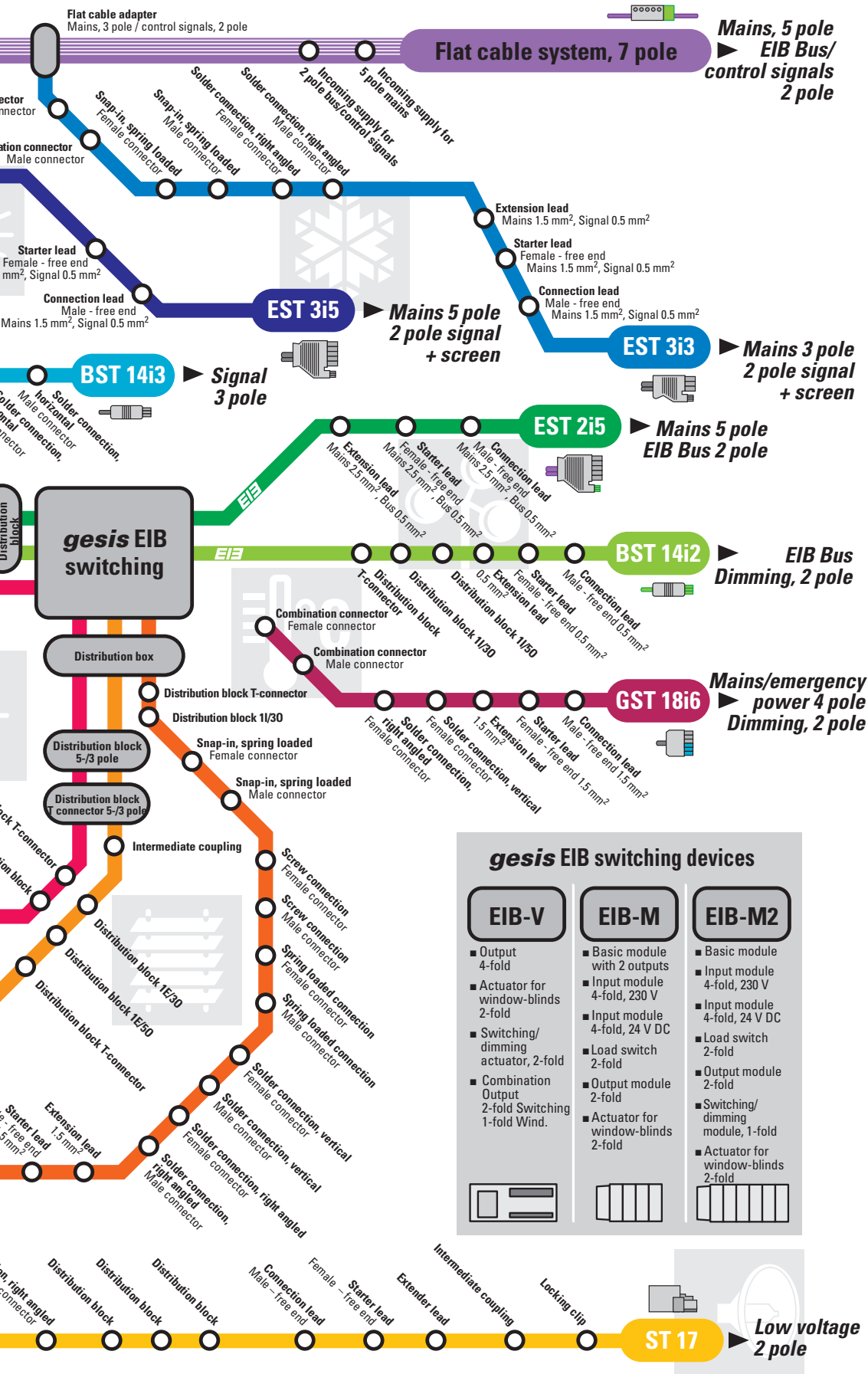


"A shining example"

The industry increasingly recognises the enormous benefits provided by **gesis**. Renowned lighting manufacturers for example, have been producing luminaires for some time with an integrated **gesis** connector.







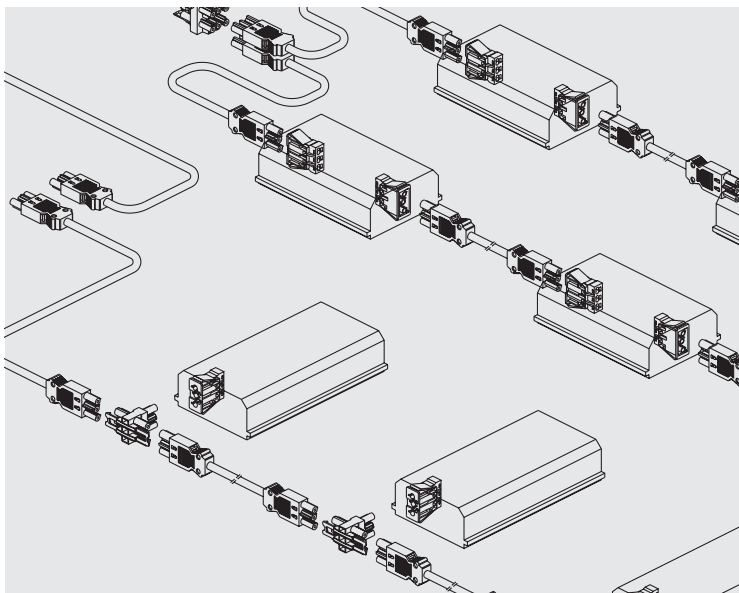
	GST 18i3 3 pole mains	
	GST 18i4 4 pole mains	
	GST 18i5 5 pole mains	
	GST 18i6 (3+1) pole mains/ emergency power 2 pole dimming	
	BST 14i2 EIB Bus 2 pole dimming	
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	EST 2i5 5 pole mains 2 pole EIB Bus	
	BST 14i3 3 pole signal	
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	ST 16 2 pole low voltage	
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gesis EIB switching devices EIB-V • EIB-M • EIB-M2		
Country specific products E		
Country specific products F		
Country specific products GB		
Country specific products I		
Distribution units		
Accessories		
Technical data		

gesis[®]





Application example



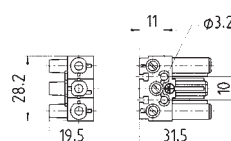
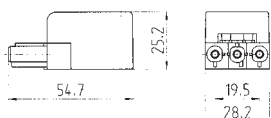
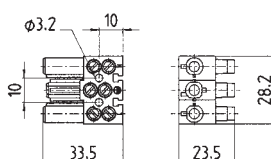
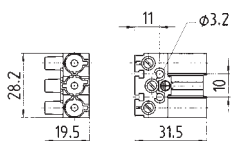
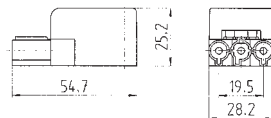
General

It is possible to choose between a total of 4 mechanical codes, depending on whether your application requires an earthing contact or not. Mechanical coding means that only associated pairs of male and female connectors can be connected and with the correct polarity. You therefore have the security of a clear segregation of different applications without having to remake any incorrect connections. The colour of the connectors indicates the relevant links. If only one code differentiation is sufficient or required, you can choose between various colours within Code 1. These connectors are then mutually compatible.

Coding

					Application				Mains with earth				Switching-applications without earth conn.
					Mechanical coding					Code 1	Code 2	Code 3	Code 4
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black	white	coral red	pebble grey	light red	brown			
Connector	Standard	Screw	no	1									
				2									
			yes	1									
				2									
Snap in	Flat design	Spring	yes	2									
		Screw		1									
	For material thickness: 1.5 – 2.5 mm	Spring		2									
Solder connection	Vertical	Solder pins		1									
	90°	Solder pins		1									
Distributor	1 input 3 outputs	preassembled	preassembled	preassembled									
	1 input 5 outputs												
	1 input 2 outputs T-shaped												
	Junction box with optional components												
	Lighting connections												
Prefabricated cables	Male conn. – free end	preassembled	preassembled	preassembled									
	Female conn. – free end												
	Male conn. – female conn.												
	Fem. conn. – conn. f. non-heat. appliances												
	Fem. conn. – elbow plug												

GST 18i 3 pole 250 V, 16 A

			Screw connection		Screw connection		Screw connection, double	
			without strain relief for 0.5 – 2.5 mm ² cables single core, finely stranded, lockable** screws into housing*)		For cross sections of 1.5 – 2.5 mm ² , single core, finely stranded, one connection per pole full assembled with strain relief , for H05VV, NYM ¹⁾ cables (Ø 8.3 – 11.3 mm), lockable** Caution: A connection point is lost when this screw component is inserted into the distribution block. Sheath strip length: 35 mm Insulation strip length: 7 mm		without strain relief For 0.5 – 2.5 mm ² cables, 2 connections per pole, single core and finely stranded, screws into housing*)	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector			 		 		 	
Mains with earth	Code 1	 N PE L	black	92.031.3258.1 200	99.400.5802.2 100	92.031.4453.1 200		
			white	92.031.3258.0 200	99.429.5807.6 100	92.031.4453.0 200		
	Code 2	 N PE L	pebble grey	92.031.3458.0 200	99.433.5802.2 100			
Switching applications	Code 3	 N PE L	light red	92.031.3658.0 200	99.434.5802.2 100			
	Code 4	 3 2 1	brown	92.031.3858.0 200	99.436.5802.2 100			
Type			GST 18i3 S B1		GST 18i3 S B1 Z		GST 18i3 S B2	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty		
Male connector			 		 			
Mains with earth	Code 1	 L PE N	black	92.032.3358.1 200	99.403.5802.2 100			
			white	92.032.3358.0 200	99.470.5807.6 100			
	Code 2	 L PE N	pebble grey	92.032.3458.0 200	99.437.5802.2 100			
Switching applications	Code 3	 L PE N	light red	92.032.3658.0 200	99.438.5802.2 100	..		
	Code 4	 1 2 3	brown	92.032.3858.0 200	99.440.5802.2 100			
Type			GST 18i3 S S1		GST 18i3 S S1 Z			
					¹⁾ other cable and cable cross-sections available on request			

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Screw connection

Spring loaded connection

with strain relief

Female connector: suitable for the connection of 2 cables for looping through the main power supply, Complete with locking hoop.

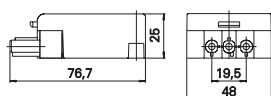
Male connector: suitable for connection of 1 cable as a plug-in complete with locking hook.

For rigid 1.5 – 2.5 mm² cables, finely stranded 1.5 mm² cables with ferrules¹⁾, 2 connectors per pole, unassembled **with strain relief**, for H05VV, NYM¹⁾ cables (Ø 7.8 – 10.3 mm), lockable**

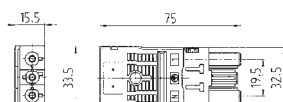
Sheath strip length: 45 mm
Insulation strip length 1.5 mm²: 8 mm
Insulation strip length 2.5 mm²: 9 mm

Part No. Box Qty

Part No. Box Qty



For cross-section of 2.5 mm², single core and finely stranded, **2 connections per pole**, unassembled with strain relief for **2 cables** H05VV, NYM¹⁾ (Ø 9.0 – 11.5 mm).



92.939.1053.1 100

92.933.0053.1 50
92.933.0053.0 50

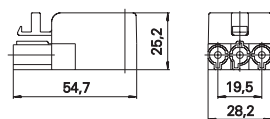
92.933.0153.0 50

GST 18i3 S B2 Z

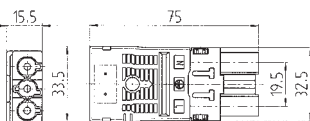
GST 18i3 F B2 Z

Part No. Box Qty

Part No. Box Qty



For cross-section of 1.5 mm², single-core and finely stranded, **1 connection per pole**, unassembled with strain relief for H05VV, NYM¹⁾ cables (Ø 6.5 – 8.3 mm).



92.938.0158.1 200

92.934.0053.1 50
92.934.0053.0 50

92.934.0153.0 50

GST 18i3 S S1 NZR1V

GST 18i3 F S2 Z

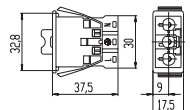
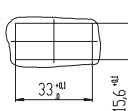
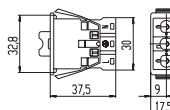
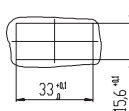
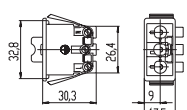
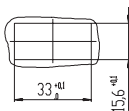
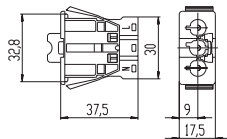
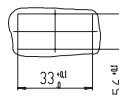
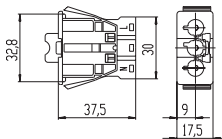
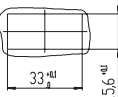
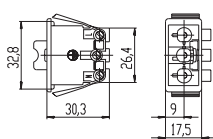
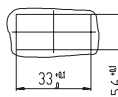
¹⁾ other cable and cable cross-sections available on request

¹⁾ other cable and cable cross-sections available on request

²⁾ See "Accessories" for ferrules and clamping tools

- *) 1. When striking voltage occurs in a range between 3 and 5 kV, screws made out of insulating material should be used for mounting the connector to prevent flash over.
2. Exposed conductive material that is used for mounting must be earthed.
3. When attaching connector plates, self tapping screws with a maximum diameter of ≤ 3 mm may be used.
4. The distance between the fixing holes may not exceed a tolerance of ± 0.1 mm.
5. To avoid damaging the insulating material, self tapping screws may not be screwed into the fixing holes of the connector.

**) VDE 0628 requires the use of a locking device.

			Snap-in, Spring-loaded		Snap-in, Spring-loaded		Snap-in, screw connection	
			Material thickness: 0.5 – 1.5 mm Panel mounting ¹⁾ , 2 screwless connections per pole, finely stranded cable 0.5 – 1.5 mm ² with ferrule ²⁾ , rigid cable 0.5 – 2.5 mm ² with locking device		Material thickness: 1.5 – 2.5 mm Panel mounting ¹⁾ , 2 screwless connections per pole, finely stranded cable 0.5 – 1.5 mm ² with ferrule ²⁾ , rigid cable 0.5 – 2.5 mm ² with locking device		Material thickness: 0.5 – 1.5 mm Panel mounting ¹⁾ , 1 screw connection per pole, single core and finely stranded cable 0,5 – 2,5 mm ² , with locking device	
			Insulation strip length 0.5–1.5 mm ² : 8 mm Insulation strip length 2.5 mm ² : 9 mm		Insulation strip length 0.5–1.5 mm ² : 8 mm Insulation strip length 2.5 mm ² : 9 mm		Insulation strip length 0.5–1.5 mm ² : 8 mm Insulation strip length 2.5 mm ² : 9 mm	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector			  		  		  	
Mains with earth	Code 1		black white	92.031.9658.1 100 92.031.9658.0 100	92.031.7658.1 100 92.031.7658.0 100	92.031.8758.1 100 92.031.8758.0 100		
	Code 2		pebble grey	92.031.9758.0 100				
	Code 3		light red	92.031.8558.0 100				
Switching applications	Code 4		brown	92.031.8458.0 100				
Type			GST 18i3 F B2 R		GST 18i3 F B2 REV		GST 18i3S B1 R	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Male connector			  Section of housing 		  Section of housing 		  Section of housing 	
Mains with earth	Code 1		black white	92.032.9658.1 100 92.032.9658.0 100	92.032.7658.1 100 92.032.7658.0 100	92.032.8758.1 100 92.032.8758.0 100		
	Code 2		pebble grey	92.032.9758.0 100				
	Code 3		light red	92.032.8558.0 100				
Switching applications	Code 4		brown	92.032.8458.0 100				
Type			GST 18i3 F S2 R		GST 18i3 F S2 REV		GST 18i3 S S1 R	
			¹⁾ Panel material deburring and coating thickness may influence the cut-out dimension. Detailed installation instructions available on request. ²⁾ See "Accessories" for ferrules and crimping tools		¹⁾ Panel material deburring and coating thickness may influence the cut-out dimension. Detailed installation instructions available on request. ²⁾ See "Accessories" for ferrules and crimping tools		¹⁾ Panel material deburring and coating thickness may influence the cut-out dimension. Detailed installation instructions available on request.	

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GST 18i3

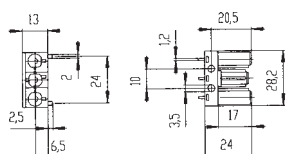
3 pole mains

Soldered connection, vertical

Can be soldered onto printed circuit board
 – **vertical**
 – with locating cams
 – optional locking device**, fitted

See “Technical Data” for hole template for GST 18 soldered connector

Part No. Box Qty

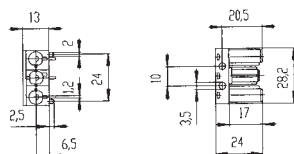


Soldered connection, horizontal

Can be soldered onto a printed circuit board
 – **horizontal**
 – with locating cams
 – optional locking device**, fitted

See “Technical Data” for hole template for GST 18 soldered connector

Part No. Box Qty



92.031.0058.1 100
 92.031.0058.0 100

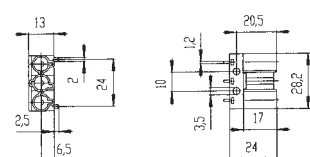
92.033.0058.1 100
 92.033.0058.0 100

92.031.0158.0 100

92.033.0158.0 100

GST 18i3 L B1 V

Part No. Box Qty

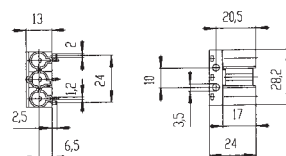


92.032.0058.1 100
 92.032.0058.0 100

92.032.0158.0 100

GST 18i3 L B1 H

Part No. Box Qty



92.034.0058.1 100
 92.034.0058.0 100

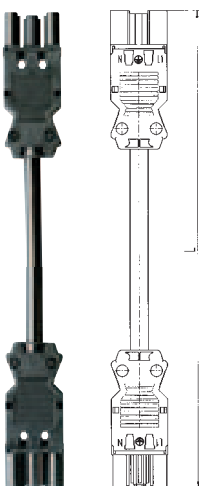
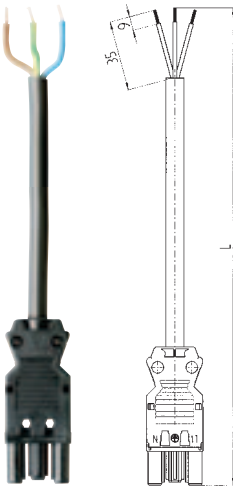
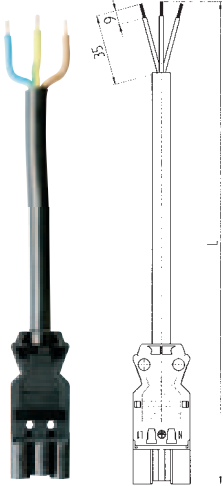
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GST 18i3 L S1 V

GST 18i3 L S1 H

**) VDE 0628 requires the use of a locking device

GST 18i 3 pole 250 V, 16 A

				Extender lead		Starter lead		Connection lead	
Cable: H05VV-F3G1.5/2.5 Insulation: with halogen (PVC)				3 x 1.5 mm² female – male		3 x 1.5 mm² female – free end with ultrasonically welded conductor ends ¹⁾		3 x 1.5 mm² male – free end with ultrasonically welded conductor ends ¹⁾	
Cable assemblies									
Standard PVC cable Type H05VV-F3G1.5 Colour black									
Application	Coding	Colour	Length ²⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Code 1 Female  Male 	black	1.0 m	92.232.1000.1	75	92.232.1003.1	75	92.232.1004.1	75
			2.0 m	92.232.2000.1	40	92.232.2003.1	50	92.232.2004.1	50
			3.0 m	92.232.3000.1	25	92.232.3003.1	25	92.232.3004.1	25
			4.0 m	92.232.4000.1	25	92.232.4003.1	25	92.232.4004.1	25
			5.0 m	92.232.5000.1	20	92.232.5003.1	20	92.232.5004.1	20
			6.0 m	92.232.6000.1	10	92.232.6003.1	10	92.232.6004.1	10
			7.0 m	92.232.7000.1	10	92.232.7003.1	10	92.232.7004.1	10
			8.0 m	92.232.8000.1	10	92.232.8003.1	10	92.232.8004.1	10
	Code 2 Female  Male 	white	1.0 m	92.232.1000.2	75	92.232.1003.2	75	92.232.1004.2	75
			2.0 m	92.232.2000.2	40	92.232.2003.2	50	92.232.2004.2	50
			3.0 m	92.232.3000.2	25	92.232.3003.2	25	92.232.3004.2	25
			4.0 m	92.232.4000.2	25	92.232.4003.2	25	92.232.4004.2	25
			5.0 m	92.232.5000.2	20	92.232.5003.2	20	92.232.5004.2	20
			6.0 m	92.232.6000.2	10	92.232.6003.2	10	92.232.6004.2	10
			7.0 m	92.232.7000.2	10	92.232.7003.2	10	92.232.7004.2	10
			8.0 m	92.232.8000.2	10	92.232.8003.2	10	92.232.8004.2	10
	Code 3 Female  Male 	grey	1.0 m	92.232.1000.3	75	92.232.1003.3	75	92.232.1004.3	75
			2.0 m	92.232.2000.3	40	92.232.2003.3	50	92.232.2004.3	50
			3.0 m	92.232.3000.3	25	92.232.3003.3	25	92.232.3004.3	25
			4.0 m	92.232.4000.3	25	92.232.4003.3	25	92.232.4004.3	25
			5.0 m	92.232.5000.3	20	92.232.5003.3	20	92.232.5004.3	20
			6.0 m	92.232.6000.3	10	92.232.6003.3	10	92.232.6004.3	10
			7.0 m	92.232.7000.3	10	92.232.7003.3	10	92.232.7004.3	10
			8.0 m	92.232.8000.3	10	92.232.8003.3	10	92.232.8004.3	10
	Code 4 Female  Male 	light red	1.0 m	92.232.1000.5	75	92.232.1003.5	75	92.232.1004.5	75
			2.0 m	92.232.2000.5	40	92.232.2003.5	50	92.232.2004.5	50
			3.0 m	92.232.3000.5	25	92.232.3003.5	25	92.232.3004.5	25
			4.0 m	92.232.4000.5	25	92.232.4003.5	25	92.232.4004.5	25
			5.0 m	92.232.5000.5	20	92.232.5003.5	20	92.232.5004.5	20
			6.0 m	92.232.6000.5	10	92.232.6003.5	10	92.232.6004.5	10
			7.0 m	92.232.7000.5	10	92.232.7003.5	10	92.232.7004.5	10
			8.0 m	92.232.8000.5	10	92.232.8003.5	10	92.232.8004.5	10



Extender lead

Starter lead

Connection lead

3 x 2.5 mm²

female – male

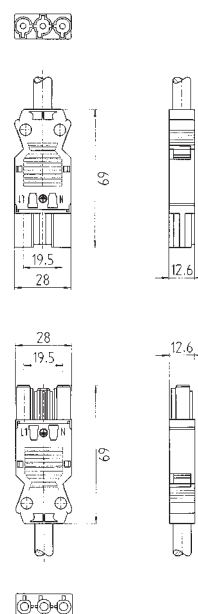
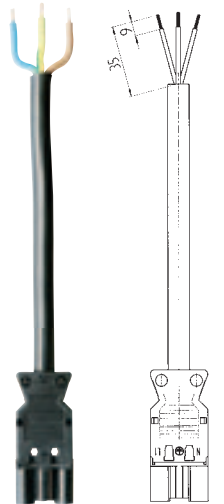
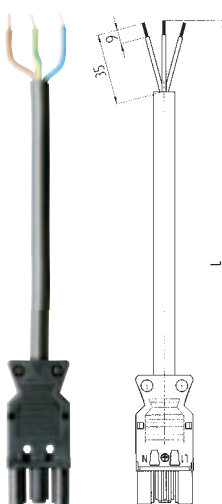
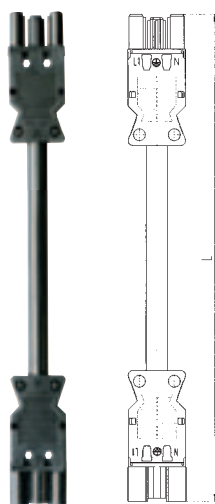
3 x 2.5 mm²

female – free end
with ultrasonically welded
conductor ends¹⁾

3 x 2.5 mm²

male – free end
with ultrasonically welded
conductor ends¹⁾

Standard PVC cable Type H05VV-F3G2.5 Colour black



Length ²⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	92.238.1000.1	50	92.238.1003.1	50	92.238.1004.1	50
2.0 m	92.238.2000.1	25	92.238.2003.1	25	92.238.2004.1	25
3.0 m	92.238.3000.1	20	92.238.3003.1	20	92.238.3004.1	20
4.0 m	92.238.4000.1	15	92.238.4003.1	15	92.238.4004.1	15
5.0 m	92.238.5000.1	10	92.238.5003.1	10	92.238.5004.1	10
6.0 m	92.238.6000.1	10	92.238.6003.1	10	92.238.6004.1	10
7.0 m	92.238.7000.1	5	92.238.7003.1	5	92.238.7004.1	5
8.0 m	92.238.8000.1	5	92.238.8003.1	5	92.238.8004.1	5
1.0 m	92.238.1000.2	50	92.238.1003.2	50	92.238.1004.2	50
2.0 m	92.238.2000.2	25	92.238.2003.2	25	92.238.2004.2	25
3.0 m	92.238.3000.2	20	92.238.3003.2	20	92.238.3004.2	20
4.0 m	92.238.4000.2	15	92.238.4003.2	15	92.238.4004.2	15
5.0 m	92.238.5000.2	10	92.238.5003.2	10	92.238.5004.2	10
6.0 m	92.238.6000.2	10	92.238.6003.2	10	92.238.6004.2	10
7.0 m	92.238.7000.2	5	92.238.7003.2	5	92.238.7004.2	5
8.0 m	92.238.8000.2	5	92.238.8003.2	5	92.238.8004.2	5
1.0 m	92.238.1000.3	50	92.238.1003.3	50	92.238.1004.3	50
2.0 m	92.238.2000.3	25	92.238.2003.3	25	92.238.2004.3	25
3.0 m	92.238.3000.3	20	92.238.3003.3	20	92.238.3004.3	20
4.0 m	92.238.4000.3	15	92.238.4003.3	15	92.238.4004.3	15
5.0 m	92.238.5000.3	10	92.238.5003.3	10	92.238.5004.3	10
6.0 m	92.238.6000.3	10	92.238.6003.3	10	92.238.6004.3	10
7.0 m	92.238.7000.3	5	92.238.7003.3	5	92.238.7004.3	5
8.0 m	92.238.8000.3	5	92.238.8003.3	5	92.238.8004.3	5
1.0 m	92.238.1000.5	50	92.238.1003.5	50	92.238.1004.5	50
2.0 m	92.238.2000.5	25	92.238.2003.5	25	92.238.2004.5	25
3.0 m	92.238.3000.5	20	92.238.3003.5	20	92.238.3004.5	20
4.0 m	92.238.4000.5	15	92.238.4003.5	15	92.238.4004.5	15
5.0 m	92.238.5000.5	10	92.238.5003.5	10	92.238.5004.5	10
6.0 m	92.238.6000.5	10	92.238.6003.5	10	92.238.6004.5	10
7.0 m	92.238.7000.5	5	92.238.7003.5	5	92.238.7004.5	5
8.0 m	92.238.8000.5	5	92.238.8003.5	5	92.238.8004.5	5

¹⁾ Modification of the sheath/insulation strip lengths available on request

²⁾ Other lengths available on request

GST 18i 3 pole 250 V, 16 A

				Starter lead		Connection lead		
Cable: H05VV-F3G1.5/1.0 Insulation: with halogen (PVC)				3 x 1.5 mm ² female to angled plug according to DIN 49441		3 x 1.0 mm ² male to inlet connector for cooling devices		
Cable assemblies								
Standard Type H05VV-F3G1.5				Standard Type H05VV-F3G1.0				
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Length ¹⁾	Part No.	Box Qty
Mains with earth	Code 1 Female Male 	black	1.0 m	92.232.2007.1	40	1.0 m		
			2.0 m					
			3.0 m					
			4.0 m					
			5.0 m					
			6.0 m					
			7.0 m					
			8.0 m					
		cable: black	1.0 m	92.232.2007.2	40	1.0 m		
			2.0 m					
white	3.0 m		3.0 m					
	4.0 m							
	5.0 m							
	6.0 m							
	7.0 m							
	8.0 m							
	cable: white		1.0 m					
	2.0 m							

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¹⁾ Only applies to connection cable with inlet connector for cooling devices

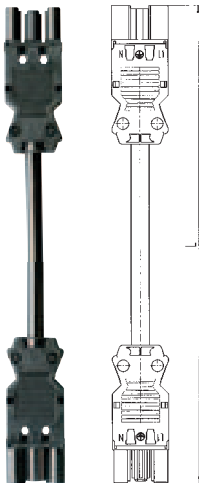
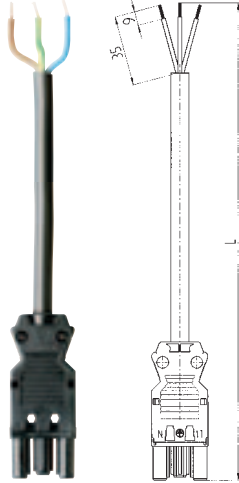
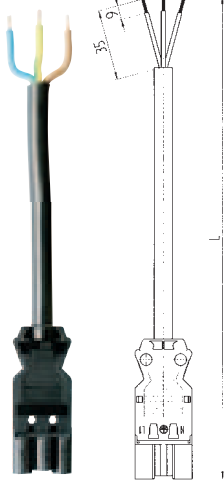
¹⁾ Only applies to connection cable with inlet connector for cooling devices

GST 18i3

3 pole mains

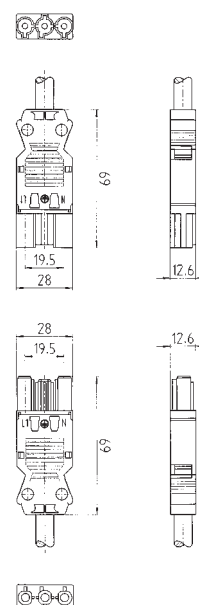


GST 18i 3 pole 250 V, 16 A

				Extender lead		Starter lead		Connection lead	
Cable: S05VV-F3G1.5/2.5 Insulation: halogen-free				3 x 1.5 mm² female – male		3 x 1.5 mm² female – free end with ultrasonically welded conductor ends ¹⁾		3 x 1.5 mm² male – free end with ultrasonically welded conductor ends ¹⁾	
Cable assemblies				Colour black Standard Type S05VV-F3G1.5 					
Application	Coding	Colour	Length ²⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Code 1  Female  Male	black	1.0 m	92.232.1060.1	75	92.232.1063.1	75	92.232.1064.1	75
			2.0 m	92.232.2060.1	40	92.232.2063.1	50	92.232.2064.1	50
			3.0 m	92.232.3060.1	25	92.232.3063.1	25	92.232.3064.1	25
			4.0 m	92.232.4060.1	25	92.232.4063.1	25	92.232.4064.1	25
		cable: black	5.0 m	92.232.5060.1	20	92.232.5063.1	20	92.232.5064.1	20
			6.0 m	92.232.6060.1	10	92.232.6063.1	10	92.232.6064.1	10
			7.0 m	92.232.7060.1	10	92.232.7063.1	10	92.232.7064.1	10
			8.0 m	92.232.8060.1	10	92.232.8063.1	10	92.232.8064.1	10
	Code 2  Female  Male	white	1.0 m	92.232.1060.2	75	92.232.1063.2	75	92.232.1064.2	75
			2.0 m	92.232.2060.2	40	92.232.2063.2	50	92.232.2064.2	50
			3.0 m	92.232.3060.2	25	92.232.3063.2	25	92.232.3064.2	25
			4.0 m	92.232.4060.2	25	92.232.4063.2	25	92.232.4064.2	25
		cable: white	5.0 m	92.232.5060.2	20	92.232.5063.2	20	92.232.5064.2	20
			6.0 m	92.232.6060.2	10	92.232.6063.2	10	92.232.6064.2	10
			7.0 m	92.232.7060.2	10	92.232.7063.2	10	92.232.7064.2	10
			8.0 m	92.232.8060.2	10	92.232.8063.2	10	92.232.8064.2	10
	Code 3  Female  Male	grey	1.0 m	92.232.1060.3	75	92.232.1063.3	75	92.232.1064.3	75
			2.0 m	92.232.2060.3	40	92.232.2063.3	50	92.232.2064.3	50
			3.0 m	92.232.3060.3	25	92.232.3063.3	25	92.232.3064.3	25
			4.0 m	92.232.4060.3	25	92.232.4063.3	25	92.232.4064.3	25
		cable: black	5.0 m	92.232.5060.3	20	92.232.5063.3	20	92.232.5064.3	20
			6.0 m	92.232.6060.3	10	92.232.6063.3	10	92.232.6064.3	10
			7.0 m	92.232.7060.3	10	92.232.7063.3	10	92.232.7064.3	10
			8.0 m	92.232.8060.3	10	92.232.8063.3	10	92.232.8064.3	10
		light red	1.0 m	92.232.1060.5	75	92.232.1063.5	75	92.232.1064.5	75
			2.0 m	92.232.2060.5	40	92.232.2063.5	50	92.232.2064.5	50
			3.0 m	92.232.3060.5	25	92.232.3063.5	25	92.232.3064.5	25
			4.0 m	92.232.4060.5	25	92.232.4063.5	25	92.232.4064.5	25
		cable: black	5.0 m	92.232.5060.5	20	92.232.5063.5	20	92.232.5064.5	20
			6.0 m	92.232.6060.5	10	92.232.6063.5	10	92.232.6064.5	10
			7.0 m	92.232.7060.5	10	92.232.7063.5	10	92.232.7064.5	10
			8.0 m	92.232.8060.5	10	92.232.8063.5	10	92.232.8064.5	10



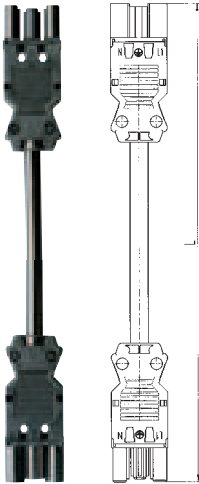
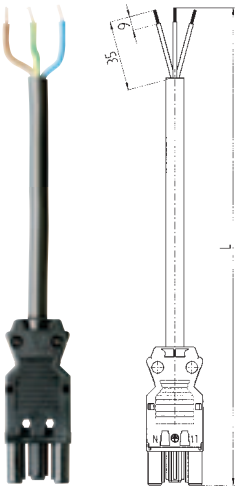
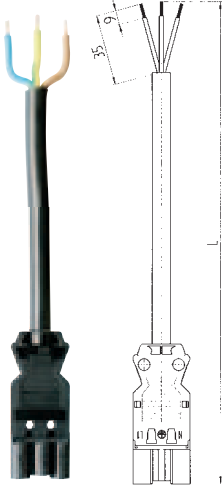
	Extender lead		Starter lead		Connection lead	
	3 x 2.5 mm ²		3 x 2.5 mm ²		3 x 2.5 mm ²	
	female – male		female – free end with ultrasonically welded conductor ends ¹⁾		male – free end with ultrasonically welded conductor ends ¹⁾	
Colour black						
Standard Type S05VV-F3G2.5						
Length ²⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	92.238.1060.1	50	92.238.1063.1	50	92.238.1064.1	50
2.0 m	92.238.2060.1	25	92.238.2063.1	25	92.238.2064.1	25
3.0 m	92.238.3060.1	20	92.238.3063.1	20	92.238.3064.1	20
4.0 m	92.238.4060.1	15	92.238.4063.1	15	92.238.4064.1	15
5.0 m	92.238.5060.1	10	92.238.5063.1	10	92.238.5064.1	10
6.0 m	92.238.6060.1	10	92.238.6063.1	10	92.238.6064.1	10
7.0 m	92.238.7060.1	5	92.238.7063.1	5	92.238.7064.1	5
8.0 m	92.238.8060.1	5	92.238.8063.1	5	92.238.8064.1	5
1.0 m	92.238.1060.2	50	92.238.1063.2	50	92.238.1064.2	50
2.0 m	92.238.2060.2	25	92.238.2063.2	25	92.238.2064.2	25
3.0 m	92.238.3060.2	20	92.238.3063.2	20	92.238.3064.2	20
4.0 m	92.238.4060.2	15	92.238.4063.2	15	92.238.4064.2	15
5.0 m	92.238.5060.2	10	92.238.5063.2	10	92.238.5064.2	10
6.0 m	92.238.6060.2	10	92.238.6063.2	10	92.238.6064.2	10
7.0 m	92.238.7060.2	5	92.238.7063.2	5	92.238.7064.2	5
8.0 m	92.238.8060.2	5	92.238.8063.2	5	92.238.8064.2	5
1.0 m	92.238.1060.3	50	92.238.1063.3	50	92.238.1064.3	50
2.0 m	92.238.2060.3	25	92.238.2063.3	25	92.238.2064.3	25
3.0 m	92.238.3060.3	20	92.238.3063.3	20	92.238.3064.3	20
4.0 m	92.238.4060.3	15	92.238.4063.3	15	92.238.4064.3	15
5.0 m	92.238.5060.3	10	92.238.5063.3	10	92.238.5064.3	10
6.0 m	92.238.6060.3	10	92.238.6063.3	10	92.238.6064.3	10
7.0 m	92.238.7060.3	5	92.238.7063.3	5	92.238.7064.3	5
8.0 m	92.238.8060.3	5	92.238.8063.3	5	92.238.8064.3	5
1.0 m	92.238.1060.5	50	92.238.1063.5	50	92.238.1064.5	50
2.0 m	92.238.2060.5	25	92.238.2063.5	25	92.238.2064.5	25
3.0 m	92.238.3060.5	20	92.238.3063.5	20	92.238.3064.5	20
4.0 m	92.238.4060.5	15	92.238.4063.5	15	92.238.4064.5	15
5.0 m	92.238.5060.5	10	92.238.5063.5	10	92.238.5064.5	10
6.0 m	92.238.6060.5	10	92.238.6063.5	10	92.238.6064.5	10
7.0 m	92.238.7060.5	5	92.238.7063.5	5	92.238.7064.5	5
8.0 m	92.238.8060.5	5	92.238.8063.5	5	92.238.8064.5	5



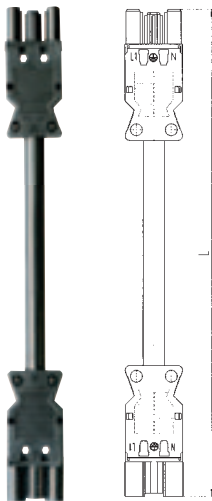
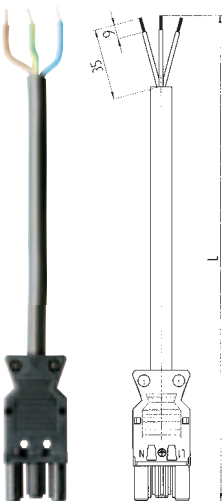
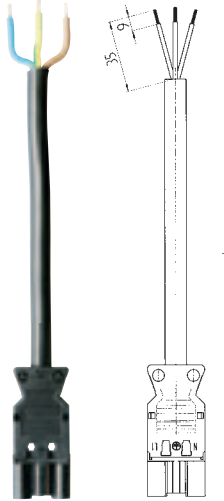
¹⁾ Modification of the sheath/insulation strip lengths available on request

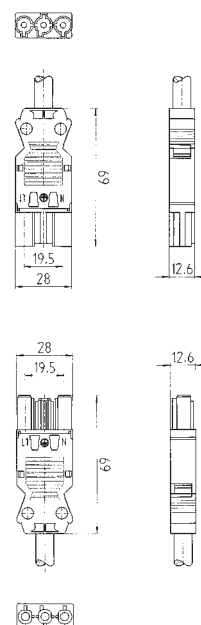
²⁾ Other lengths available on request

GST 18i 3 pole 250 V, 16 A

				Extender lead		Starter lead		Connection lead	
Cable: H05V2V2-F3G1.5/2.5 Insulation: with halogen (PVC) Continuous temperature 90 °C				3 x 1.5 mm² female – male		3 x 1.5 mm² female – free end with ultrasonically welded conductor ends ¹⁾		3 x 1.5 mm² male – free end with ultrasonically welded conductor ends ¹⁾	
Cable assemblies Colour black Standard Type H05V2V2-F3G1.5									
Application	Coding	Colour	Length ²⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Code 1 Female  Male 	black	1.0 m	92.232.1010.1	75	92.232.1013.1	75	92.232.1014.1	75
			2.0 m	92.232.2010.1	40	92.232.2013.1	50	92.232.2014.1	50
			3.0 m	92.232.3010.1	25	92.232.3013.1	25	92.232.3014.1	25
			4.0 m	92.232.4010.1	25	92.232.4013.1	25	92.232.4014.1	25
		cable: black	5.0 m	92.232.5010.1	20	92.232.5013.1	20	92.232.5014.1	20
			6.0 m	92.232.6010.1	10	92.232.6013.1	10	92.232.6014.1	10
			7.0 m	92.232.7010.1	10	92.232.7013.1	10	92.232.7014.1	10
			8.0 m	92.232.8010.1	10	92.232.8013.1	10	92.232.8014.1	10
	Code 2 Female  Male 	white	1.0 m	92.232.1010.2	75	92.232.1013.2	75	92.232.1014.2	75
			2.0 m	92.232.2010.2	40	92.232.2013.2	50	92.232.2014.2	50
			3.0 m	92.232.3010.2	25	92.232.3013.2	25	92.232.3014.2	25
			4.0 m	92.232.4010.2	25	92.232.4013.2	25	92.232.4014.2	25
		cable: white	5.0 m	92.232.5010.2	20	92.232.5013.2	20	92.232.5014.2	20
			6.0 m	92.232.6010.2	10	92.232.6013.2	10	92.232.6014.2	10
			7.0 m	92.232.7010.2	10	92.232.7013.2	10	92.232.7014.2	10
			8.0 m	92.232.8010.2	10	92.232.8013.2	10	92.232.8014.2	10
	Code 3 Female  Male 	grey	1.0 m	92.232.1010.3	75	92.232.1013.3	75	92.232.1014.3	75
			2.0 m	92.232.2010.3	40	92.232.2013.3	50	92.232.2014.3	50
			3.0 m	92.232.3010.3	25	92.232.3013.3	25	92.232.3014.3	25
			4.0 m	92.232.4010.3	25	92.232.4013.3	25	92.232.4014.3	25
		cable: black	5.0 m	92.232.5010.3	20	92.232.5013.3	20	92.232.5014.3	20
			6.0 m	92.232.6010.3	10	92.232.6013.3	10	92.232.6014.3	10
			7.0 m	92.232.7010.3	10	92.232.7013.3	10	92.232.7014.3	10
			8.0 m	92.232.8010.3	10	92.232.8013.3	10	92.232.8014.3	10
	Code 3 Female  Male 	light red	1.0 m	92.232.1010.5	75	92.232.1013.5	75	92.232.1014.5	75
			2.0 m	92.232.2010.5	40	92.232.2013.5	50	92.232.2014.5	50
			3.0 m	92.232.3010.5	25	92.232.3013.5	25	92.232.3014.5	25
			4.0 m	92.232.4010.5	25	92.232.4013.5	25	92.232.4014.5	25
		cable: black	5.0 m	92.232.5010.5	20	92.232.5013.5	20	92.232.5014.5	20
			6.0 m	92.232.6010.5	10	92.232.6013.5	10	92.232.6014.5	10
			7.0 m	92.232.7010.5	10	92.232.7013.5	10	92.232.7014.5	10
			8.0 m	92.232.8010.5	10	92.232.8013.5	10	92.232.8014.5	10



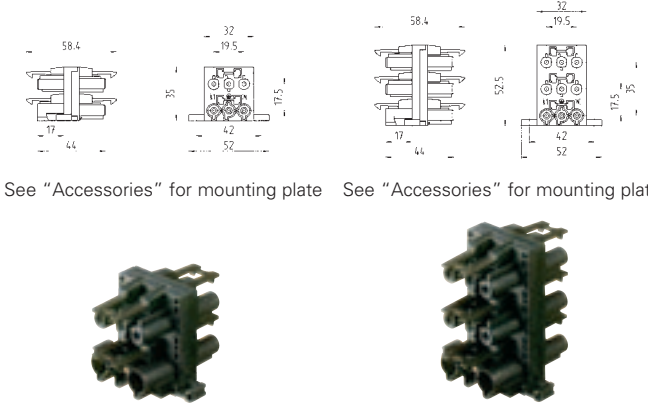
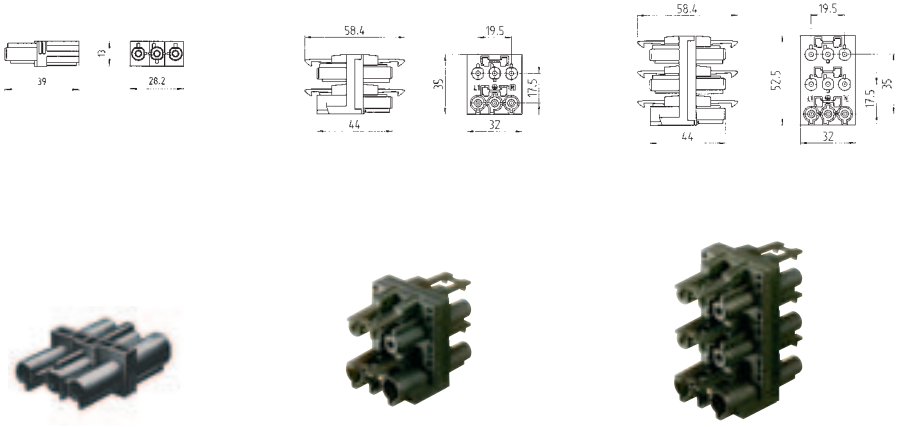
	Extender lead		Starter lead		Connection lead	
	3 x 2.5 mm²		3 x 2.5 mm²		3 x 2.5 mm²	
	female – male		female – free end with ultrasonically welded conductor ends ¹⁾		male – free end with ultrasonically welded conductor ends ¹⁾	
Colour black						
Standard Type H05V2V2-F3G2.5						
Length ²⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	92.238.1010.1	50	92.238.1013.1	50	92.238.1014.1	50
2.0 m	92.238.2010.1	25	92.238.2013.1	25	92.238.2014.1	25
3.0 m	92.238.3010.1	20	92.238.3013.1	20	92.238.3014.1	20
4.0 m	92.238.4010.1	15	92.238.4013.1	15	92.238.4014.1	15
5.0 m	92.238.5010.1	10	92.238.5013.1	10	92.238.5014.1	10
6.0 m	92.238.6010.1	10	92.238.6013.1	10	92.238.6014.1	10
7.0 m	92.238.7010.1	5	92.238.7013.1	5	92.238.7014.1	5
8.0 m	92.238.8010.1	5	92.238.8013.1	5	92.238.8014.1	5
1.0 m	92.238.1010.2	50	92.238.1013.2	50	92.238.1014.2	50
2.0 m	92.238.2010.2	25	92.238.2013.2	25	92.238.2014.2	25
3.0 m	92.238.3010.2	20	92.238.3013.2	20	92.238.3014.2	20
4.0 m	92.238.4010.2	15	92.238.4013.2	15	92.238.4014.2	15
5.0 m	92.238.5010.2	10	92.238.5013.2	10	92.238.5014.2	10
6.0 m	92.238.6010.2	10	92.238.6013.2	10	92.238.6014.2	10
7.0 m	92.238.7010.2	5	92.238.7013.2	5	92.238.7014.2	5
8.0 m	92.238.8010.2	5	92.238.8013.2	5	92.238.8014.2	5
1.0 m	92.238.1010.3	50	92.238.1013.3	50	92.238.1014.3	50
2.0 m	92.238.2010.3	25	92.238.2013.3	25	92.238.2014.3	25
3.0 m	92.238.3010.3	20	92.238.3013.3	20	92.238.3014.3	20
4.0 m	92.238.4010.3	15	92.238.4013.3	15	92.238.4014.3	15
5.0 m	92.238.5010.3	10	92.238.5013.3	10	92.238.5014.3	10
6.0 m	92.238.6010.3	10	92.238.6013.3	10	92.238.6014.3	10
7.0 m	92.238.7010.3	5	92.238.7013.3	5	92.238.7014.3	5
8.0 m	92.238.8010.3	5	92.238.8013.3	5	92.238.8014.3	5
1.0 m	92.238.1010.5	50	92.238.1013.5	50	92.238.1014.5	50
2.0 m	92.238.2010.5	25	92.238.2013.5	25	92.238.2014.5	25
3.0 m	92.238.3010.5	20	92.238.3013.5	20	92.238.3014.5	20
4.0 m	92.238.4010.5	15	92.238.4013.5	15	92.238.4014.5	15
5.0 m	92.238.5010.5	10	92.238.5013.5	10	92.238.5014.5	10
6.0 m	92.238.6010.5	10	92.238.6013.5	10	92.238.6014.5	10
7.0 m	92.238.7010.5	5	92.238.7013.5	5	92.238.7014.5	5
8.0 m	92.238.8010.5	5	92.238.8013.5	5	92.238.8014.5	5



¹⁾ Modification of the sheath/insulation strip lengths available on request

²⁾ Other lengths available on request

GST 18i 3 pole 250 V, 16 A

			Intermediate coupling	Distribution block 1I/30		Distribution block 1I/50	
			For further direct connection e.g. from lamp to lamp	with locking device 1 input, 3 pole male connector 3 outputs, 3 pole female connector		with locking device 1 input, 3 pole male connector 5 outputs, 3 pole female connector	
Application	Coding	Colour		Part No.	Box Qty	Part No.	Box Qty
with fixing options			 See "Accessories" for mounting plate See "Accessories" for mounting plate				
Mains with earth	Code 1		black white	92.030.4853.1	100	92.030.5353.1	90
	Code 2		pebble grey	92.030.4853.0	100	92.030.5353.0	90
	Code 3		light red				
Switching applications	Code 4		brown				
			Type	GST 18i3V 3P1 F		GST 18i3V 5P1 F	
Application	Coding	Colour		Part No.	Box Qty	Part No.	Box Qty
without fixing option							
Mains with earth	Code 1		black white	92.030.5958.1	100	92.030.4953.1	100
	Code 2		pebble grey	92.030.5958.0	100	92.030.4953.0	100
	Code 3		light red			92.030.5253.1	90
			Type	GST 18i3V 1P1		GST 18i3V 3P1	
				GST 18i3V 5P1			



GST 18i3

3 pole mains

TT Connector

Distribution box

Sample set

TT Connector with locking device
1 input,
 3 pole male connector
1 output,
 3 pole female connector
 with integrated luminaire terminal for
 internal wiring of the luminaires

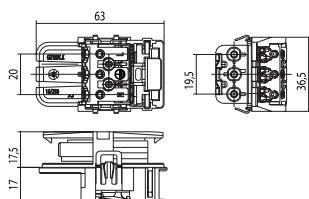
with locking device

distribution box

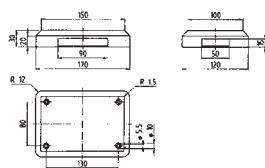
with 8 ports
 Can be fitted as required with 3, 4 and
 5 pole male and female connectors.
 Optional internal wiring depending on
 the application.

For GST 18i3

Part No. Box Qty



Part No. Box Qty



Part No. Box Qty



92.030.2053.0 50

See "Distribution units" for further
 information



Contents:

GST 18i3 connection cable
 3 x 1.5 mm², male-free end
 92.232.0204.1

GST 18i3 extension cable
 3 x 1.5 mm²
 92.232.0200.1

GST 18i3 spring-loaded connection
 female connector
 92.933.0053.1

GST 18i3 snap-in spring-loaded
 connection
 male connector
 92.032.9658.1

GST 18i3 T-distribution block
 92.030.1053.1

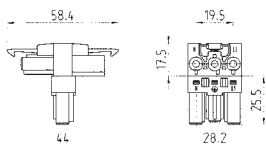
GST 18i3 distribution block
 11/30 with fixing option
 92.030.4853.1

GST locking device for
 free cable connection
 05.587.3156.1

Part No. Box Qty

Distribution block T-connector

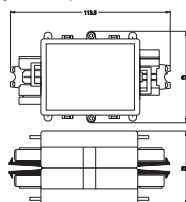
with locking device
1 input, 3 pole male connector
2 outputs, 3 pole female connector



Part No. Box Qty

Distribution box 11/30

with locking device
1 input, 3 pole male connector
3 outputs, 3 pole female connector



92.030.1053.1 100
 92.030.1053.0 100

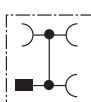
99.478.0000.0 1

99.500.0028.0

99.501.0028.0



GST 18i3V 2P1 T



GST 18i3V 3P1

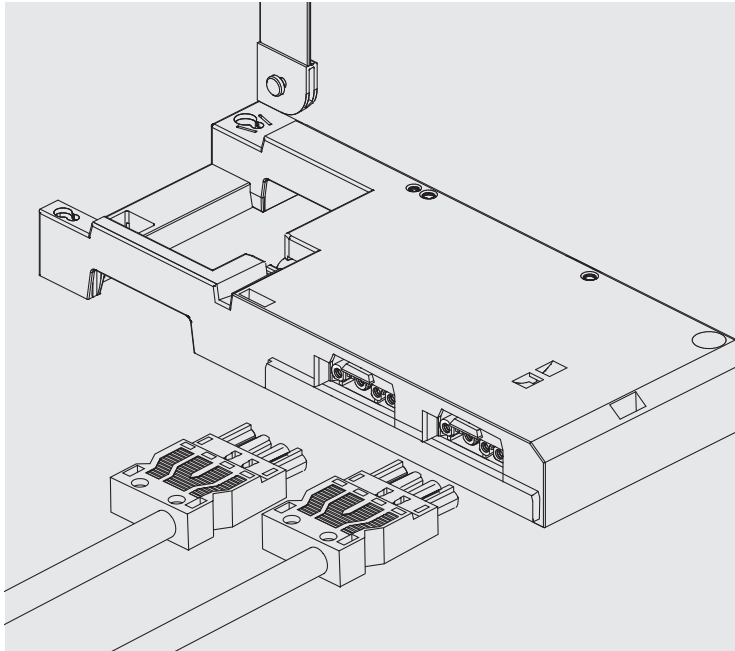
gesis[®]



GST 18i4

4 pole mains

Application example



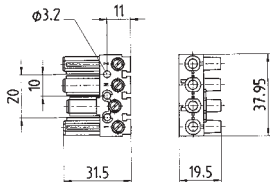
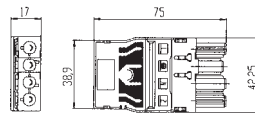
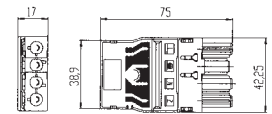
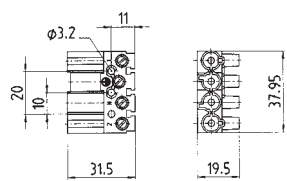
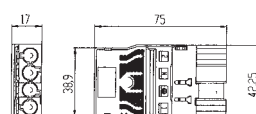
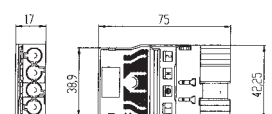
General

In this product range, 2 mechanical codes are available for selection. Mechanical coding means that only associated pairs of male and female connectors can be connected with the correct polarity. You therefore have the security of a clear segregation of different applications without having to redo any incorrect connections. The colour of the connectors indicates the relevant links. If only one code differentiation is sufficient or required, you can choose between two colours within Code 1. These connectors are then mutually compatible.

Coding

					Application		
					Mains with earth		
					Mechanical coding		
					Code 1		Code 2
							
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black	white	pebble grey
Connector	Standard	screw	no	1			
			yes	1			
	Flat design	Spring	yes	2			
Snap in	For material thickness: 0.5-1.5 mm	Spring		2			
Solder connection	Vertical	Solder pins		1			
	90°	Solder pins					
Junction	1 input, 2 outputs 4 pole, T-shaped						upon request
	1 input, 3 outputs 4 pole						
	Junction box with optional components						
Prefabricated cables	Male conn. – free end	preassembled	preassembled	preassembled			
	Female conn. – free end						
	Male conn. – Fem. conn.						

GST 18i 4 pole 250/400 V, 16 A

			Screw connection		Spring loaded		Spring loaded connection	
			without strain relief for 0.5 – 2.5 mm ² cables, single core and finely stranded, lockable**, screws into housing*)		for rigid 1.5 – 2.5 mm² cables, finely stranded 1.5 mm ² cables with ferrules ²⁾ , 2 connections per pole, unassembled with strain relief , for H05VV, NYM, H05RNF ¹⁾ , cables (Ø 9.5 – 11.5 mm), lockable** Sheath strip length: 53 mm Insulation strip length 1.5 mm ² : 8 mm Insulation strip length 2.5 mm ² : 9 mm		For finely stranded 0.75 - 1.5 mm² cables with ferrules ²⁾ , 2 connections per pole, unassembled with strain relief for H05VV, H05 RNF ¹⁾ cables (Ø 6.5 - 9.0 mm) lockable**	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector			 		 		 	
Mains with earth	Code 1	2 N PE 1	black (on request) white	92.041.3253.1 100	92.943.0053.1 50	92.943.1053.1 50		
	Code 2	2 N PE 1	pebble grey		92.943.0153.0 50			
Type			GST 18i4S B1		GST 18i4F B2 Z			
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Male connector			 		 		 	
Mains with earth	Code 1	1 PE N 2	black (on request) white	92.042.3353.1 100	92.944.0053.1 50	92.944.1053.1 50		
	Code 2	1 PE N 2	pebble grey		92.944.0153.0 50			
Type			GST 18i4S S1		GST 18i4F S2 Z			
					¹⁾ Other cables and cross-sections available on request ²⁾ See "Accessories" for ferrules and clamping tools		¹⁾ Other cables and cross-sections available on request ²⁾ See "Accessories" for ferrules and clamping tools	

Snap-in, spring-loaded

Soldered connection vertical

Soldered connection horizontal

Panel mounting³⁾, 2 screwless connections per pole, rigid cable 0.5 – 2.5 mm², finely stranded cable 0.5 – 1.5 mm² with ferrule²⁾ with locking device

Insulation strip length
0.5 – 1.5 mm²: 8 mm
Insulation strip length 2.5 mm²: 9 mm

can be soldered onto a printed circuit board

- **vertical**
- with locating cams
- optional locking device**

See “Technical Data” for hole template for GST 18 soldered connector

Can be soldered onto a printed circuit-board

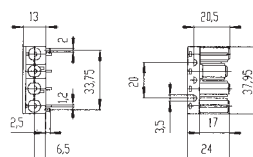
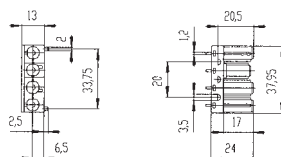
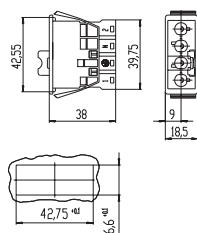
- **horizontal**
- with locating cams
- optional locking device**

See “Technical Data” for hole template for GST 18 soldered connector

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty



Section of housing
Material thickness 0.5 – 1.5 mm



92.041.9658.1 100

92.041.0058.1 100

92.043.0058.1 100

GST 18i4F B2 R

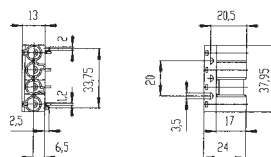
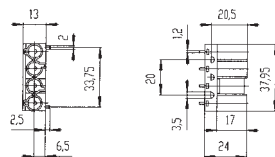
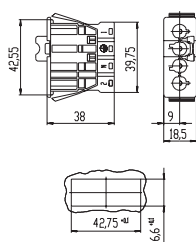
GST 18i4L B1 V

GST 18i4L B1 H

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty



Section of housing
Material thickness 0.5 – 1.5 mm



92.042.9658.1 100

92.042.0058.1 100

92.044.0058.1 100

GST 18i4F S2 R

GST 18i4L S1 V

GST 18i4L S1 H

1. When striking voltage occurs in a range between 3 and 5 kV, screws made out of insulating material should be used for mounting the connector to prevent flash over.
2. Exposed conductive material that is used for mounting must be earthed.
3. When attaching connectors to plates, self-tapping screws with a maximum diameter of ≤ 3 mm may be used.
4. The distance between the fixing holes may not exceed a tolerance of ± 0.1 mm.
5. To avoid damaging the insulating material, self tapping screws may not be screwed into the fixing holes of the connector.
6. Only plastic screws may be used for the fixing hole between the outer pole 2 and pole N.

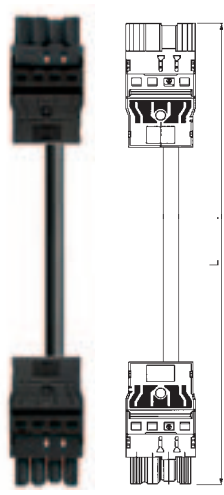
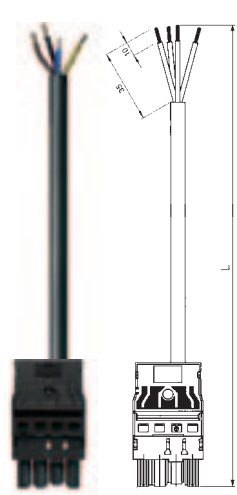
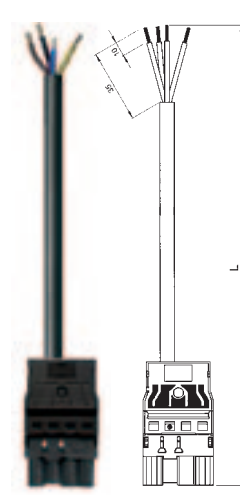
**) VDE 0628 requires the use of a locking device.

²⁾ See “Accessories” for ferrules and clamping tools
³⁾ Panel material, deburring and coating thickness may influence the cut out dimension. Detailed installation instructions are available on request.

GST 18i 4 pole 250/400 V, 16 A

			Extender lead	Starter lead		Connection lead			
Cable: H05VV-F4G1.5 Insulation: with halogen (PVC)			4 x 1.5 mm ² female – male	4 x 1.5 mm ² female – free end with ultrasonically welded conductor ends ²⁾		4 x 1.5 mm ² male – free end with ultrasonically welded conductor ends ²⁾			
Cable assemblies			Standard Type H05VV-F4G1.5						
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Code 1 Female Male 	black	1.0 m	92.207.1000.1	50	92.207.1003.1	50	92.207.1004.1	50
			2.0 m	92.207.2000.1	25	92.207.2003.1	25	92.207.2004.1	25
			3.0 m	92.207.3000.1	20	92.207.3003.1	20	92.207.3004.1	20
			4.0 m	92.207.4000.1	15	92.207.4003.1	15	92.207.4004.1	15
			5.0 m	92.207.5000.1	10	92.207.5003.1	10	92.207.5004.1	10
			6.0 m	92.207.6000.1	10	92.207.6003.1	10	92.207.6004.1	10
			7.0 m	92.207.7000.1	5	92.207.7003.1	5	92.207.7004.1	5
			8.0 m	92.207.8000.1	5	92.207.8003.1	5	92.207.8004.1	5
	Code 2 Female Male 	pebble grey	1.0 m	92.207.1000.3	50	92.207.1003.3	50	92.207.1004.3	50
			2.0 m	92.207.2000.3	25	92.207.2003.3	25	92.207.2004.3	25
			3.0 m	92.207.3000.3	20	92.207.3003.3	20	92.207.3004.3	20
			4.0 m	92.207.4000.3	15	92.207.4003.3	15	92.207.4004.3	15
			5.0 m	92.207.5000.3	10	92.207.5003.3	10	92.207.5004.3	10
			6.0 m	92.207.6000.3	10	92.207.6003.3	10	92.207.6004.3	10
			7.0 m	92.207.7000.3	5	92.207.7003.3	5	92.207.7004.3	5
			8.0 m	92.207.8000.3	5	92.207.8003.3	5	92.207.8004.3	5
1) Other cables and cable cross-sections available on request 2) Modification of the sheath/length strip/lengths available on request			Type	GST 18i4 KFBS 1,5		GST 18i4 KF-B 1,5		GST 18i4 KF-S 1,5	

30

Cable: S05VV-F4G1.5				4 x 1.5 mm ²		4 x 1.5 mm ²		4 x 1.5 mm ²	
Insulation: halogen-free				female – male		female – free end with ultrasonically welded conductor ends ²⁾		male – free end with ultrasonically welded conductor ends ²⁾	
			Standard Type S05VV-F4G1.5						
Application Coding Colour			Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Code 1  Female 2 N PE 1  Male 1 PE N 2	black	1.0 m	92.207.1060.1	50	92.207.1063.1	50	92.207.1064.1	50
			2.0 m	92.207.2060.1	25	92.207.2063.1	25	92.207.2064.1	25
			3.0 m	92.207.3060.1	20	92.207.3063.1	20	92.207.3064.1	20
			4.0 m	92.207.4060.1	15	92.207.4063.1	15	92.207.4064.1	15
		cable: black/white	5.0 m	92.207.5060.1	10	92.207.5063.1	10	92.207.5064.1	10
			6.0 m	92.207.6060.1	10	92.207.6063.1	10	92.207.6064.1	10
			7.0 m	92.207.7060.1	5	92.207.7063.1	5	92.207.7064.1	5
			8.0 m	92.207.8060.1	5	92.207.8063.1	5	92.207.8064.1	5
	Code 2  Female 2 N PE 1  Male 1 PE N 2	pebble grey	1.0 m	92.207.1060.3	50	92.207.1063.3	50	92.207.1064.3	50
			2.0 m	92.207.2060.3	25	92.207.2063.3	25	92.207.2064.3	25
			3.0 m	92.207.3060.3	20	92.207.3063.3	20	92.207.3064.3	20
			4.0 m	92.207.4060.3	15	92.207.4063.3	15	92.207.4064.3	15
		cable: black	5.0 m	92.207.5060.3	10	92.207.5063.3	10	92.207.5064.3	10
			6.0 m	92.207.6060.3	10	92.207.6063.3	10	92.207.6064.3	10
			7.0 m	92.207.7060.3	5	92.207.7063.3	5	92.207.7064.3	5
			8.0 m	92.207.8060.3	5	92.207.8063.3	5	92.207.8064.3	5
			Type	GST 18i4 KFBS 1,5		GST 18i4 KF-B 1,5		GST 18i4 KF-S 1,5	

3

GST 18i 4 pole 250/400 V, 16 A

Distribution block T-connector						Distribution box		Sample set	
			with locking device 1 input, 4 pole male connector 2 outputs, 4 pole female connector		with locking device Distribution box with 8 ports Can be fitted as required with 3, 4 or 5 pole male and female connectors Optional wiring depending on the application.		For GST 18i4		
Application Coding Colour			Part No. Box Qty		Part No. Box Qty		Part No. Box Qty		
Mains with earth	Code 1	2 N PE 1	black (on request) white	92.040.1053.1	See "Distribution units" for further information. 				
	Code 2	2 N PE 1	pebble grey	on request					
Type			GST 18i4 V2P1 T						
Application Coding Colour			Part No. Box Qty		Part No. Box Qty		Contents:		
					Distribution box 11/30 with locking device 1 input, 4 pole male connector 3 outputs, 4 pole female connector		GST 18i4 connection cable 4 x 1.5 mm², male-free end 92.207.XY04.1 Sample length GST 18i4 Spring-loaded connection, female connector 92.943.0053.1 GST 18i4 Snap-in, spring-loaded connection, male connector 92.042.9658.1 GST locking device for free cable connection 05.587.3156.1		
Mains with earth	Code 1	1 PE N 2	black (on request) white		99.502.0028.0	99.479.0000.0 1			
	Code 2	1 PE N 2	pebble grey						

32



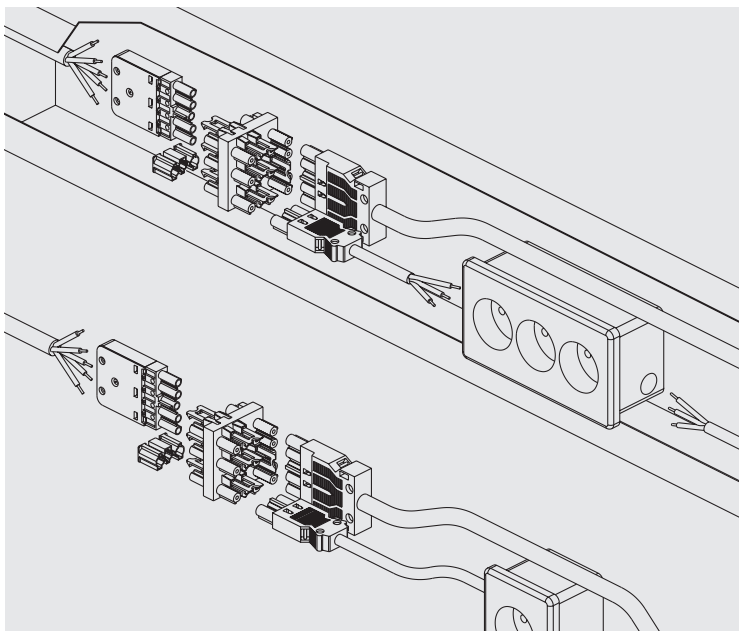
GST 18i4

4 pole mains





Application example



General

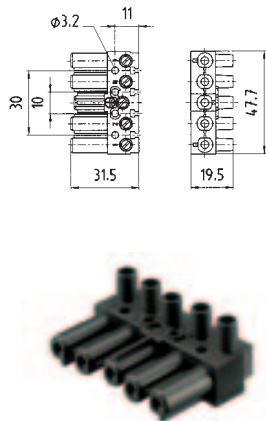
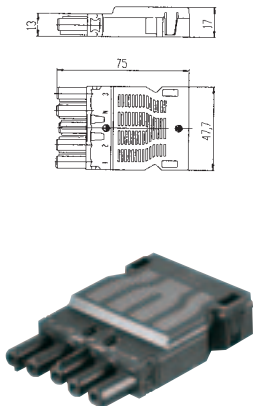
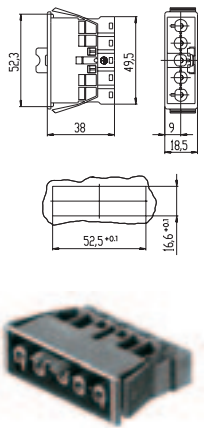
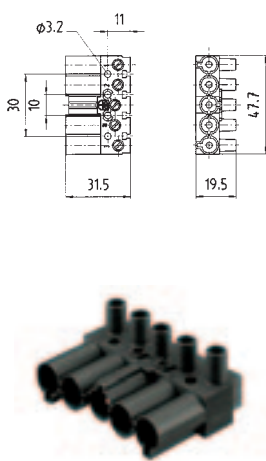
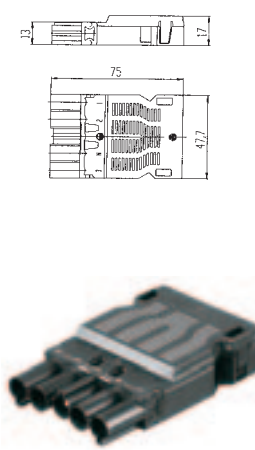
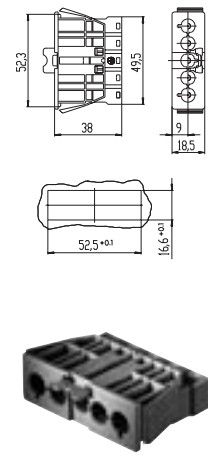
Apart from the standard coding for network applications, an additional variant is available here which is specially reserved for dimming applications (1-10 V, DALI). Mechanical coding means that only associated pairs of male and female connectors can be connected with the correct polarity. You therefore have the security of a clear segregation of different applications without having to redo any incorrect connections. The colour of the connectors indicates the relevant links. If only one code differentiation is sufficient or required, you can choose between two colours within Code 1. These connectors are then mutually compatible.



Coding

					Application		
					Mains with earth		Mains with earth, Dimming 2 pole
					Code 1		Code 2
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black	white	pastel blue
Connector	Standard	screw	no	1			
			yes	1			
	Flat design		yes	1			
Snap in	For material thickness: 0.5 - 1.5 mm	Spring		2			
Solder connection	Vertical	Solder pins		1			upon request
	90°						upon request
Junction	1 input, 1 output 5 pole 6 outputs 3 pole	preassembled	preassembled	preassembled			
	1 input, 3 outputs 5 pole						
	1 input, 2 outputs 5 pole, T-shaped						
	1 input 1 output 5 pole 1 output 3 pole, T-shaped						
	Junction box with optional components						
Prefabricated cables	Male conn. – free end						
	Female conn. – free end						
	Male conn. – Fem. conn.						

GST 18i 5 pole 250/400 V, 16 A

			Screw connection		Screw connection		Snap-in, Spring-loaded	
			without strain relief for 0.5 – 2.5 mm ² , cables, single-core and finely stranded, lockable**, screws into housing*)		For cross sections of 1.5 – 2.5 mm ² , single-core and finely stranded, one connection per pole unassembled with, strain relief , for H05VV, NYM ¹⁾ (Ø 8 – 12.5 mm), lockable** Pastel blue for dimming applications with 0–10 V control signal, strain relief cable combination NYM 3x1.5 mm ² and IYSTY 2x2x0.8 is possible *Insulation strip length: 8 mm Sheath strip length: 46 mm		material thickness: 0.5 – 1.5 mm Panel mounting ²⁾ , 2 screwless connections per pole rigid cable 0.5 – 2.5 mm ² , finely stranded cable 0.5 – 1.5 mm ² with ferrule ³⁾ with locking device Pastel blue for dimming applications with 0–10 V control signal Insulation strip length 0.5 – 1.5 mm ² : 8 mm Insulation strip length 2.5 mm ² : 9 mm	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector								
Mains with earth	Code 1 	black (on request) white	92.051.3253.1	100	92.953.3053.1	50	92.051.9658.1	100
Dimming	Code 2 	pastel blue			92.953.3453.0	50	92.051.8658.0	100
Type			GST 18i5S B1		GST 18i5S B1 Z		GST 18i5F B2 R	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Male connector								
Mains with earth	Code 1 	black (on request) white	92.052.3353.1	100	92.954.3053.1	50	92.052.9658.1	100
Dimming	Code 2 	pastel blue			92.954.3453.0	50	92.052.8658.0	100
Type			GST 18i5S S1		GST 18i5S S1 Z		GST 18i5F S2 R	
					¹⁾ Other cables and cross sections available on request		²⁾ Panel material deburring and coating thickness may influence the cut-out dimension. Detailed installation instructions are available on request. ³⁾ See "Accessories" for ferrules and crimping tools	

GST 18i5

5 pole mains

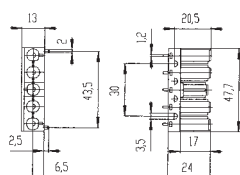
Soldered connection, vertical

Can be soldered onto a printed circuit board

- **vertical**
- with locating cams
- optional locking device

See "Technical Data" for hole template for GST 18 soldered connector.

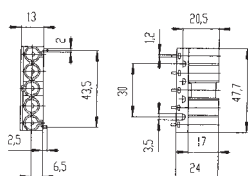
Part No. Box Qty



92.051.0058.1 100

GST 18i5L B1 V

Part No. Box Qty



92.052.0058.1 100

GST 18i5L S1 V

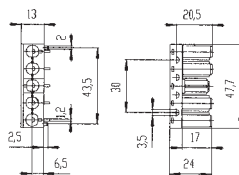
Soldered connection, right horizontal

Can be soldered onto a printed circuit board

- **horizontal**
- with locating cams
- optional locking device

See "Technical Data" for hole template for GST 18 soldered connector.

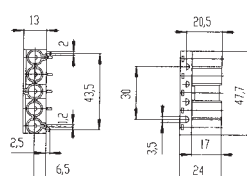
Part No. Box Qty



92.053.0058.1 100

GST 18i5L B1 H

Part No. Box Qty



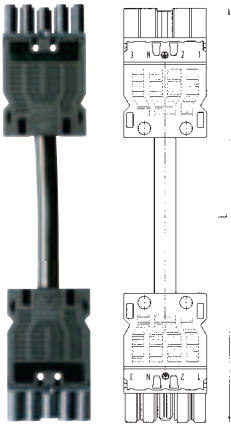
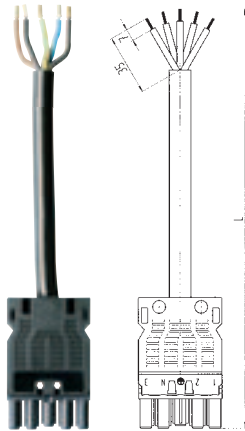
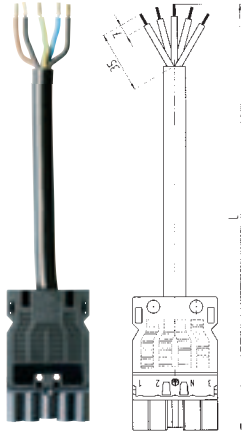
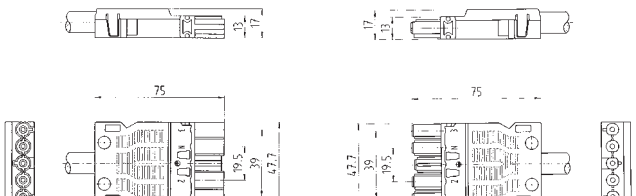
92.054.0058.1 100

GST 18i5L S1 H

- *) 1. When striking voltage occurs in a range between 3 and 5 kV, screws made out of insulating material should be used for mounting the connector to prevent flashover.
2. Exposed conductive material that is used for mounting must be earthed.
3. When attaching to predrilled steel plates, connectors self-tapping screws with a maximum diameter of ≤ 3 mm may be used.
4. The distance between the fixing holes may not exceed a tolerance of ± 0.1 mm.
5. To avoid damaging the insulating material, self tapping screws may not be screwed into the fixing holes of the connector.
6. Only plastic screws may be used for the fixing hole between the outer pole 2 and pole N.

**) VDE 0628 requires the use of a locking device.

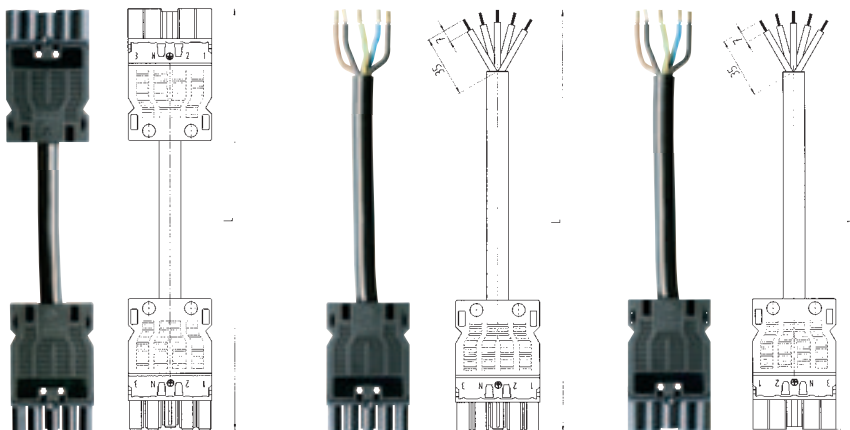
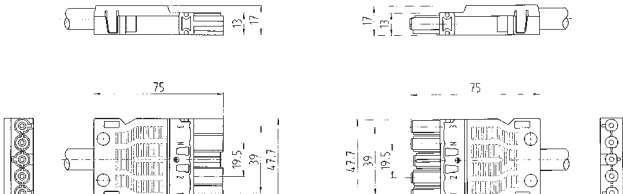
GST 18i 5 pole 250/400 V, 16 A

			Extender lead	Starter lead		Connection lead	
Cable: H05VV-F5G1.5/2.5			5 x 1.5 mm ²	5 x 1.5 mm ²		5 x 1.5 mm ²	
Insulation: with halogen (PVC)			female – male	female – free end with ferrules ²⁾		male – free end with ferrules ²⁾	
Cable assemblies			Standard PVC cable Type H05VV-F5G1.5				
							
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Female 3 N PE 2 1 Male 1 2 PE N 3	black (white with final digit xx,xxx,xxxx,2) cable: black/white	1.0 m	92.257.1000.1	30	92.257.1003.1	30
			2.0 m	92.257.2000.1	20	92.257.2003.1	20
			3.0 m	92.257.3000.1	15	92.257.3003.1	15
			4.0 m	92.257.4000.1	10	92.257.4003.1	10
			5.0 m	92.257.5000.1	10	92.257.5003.1	10
			6.0 m	92.257.6000.1	8	92.257.6003.1	8
			7.0 m	92.257.7000.1	5	92.257.7003.1	5
			8.0 m	92.257.8000.1	5	92.257.8003.1	5
Dimming L, N, PE, +, -	Female L N PE + - Male + - PE N L	pastel blue cable: black	1.0 m	92.257.1000.9	30	92.257.1003.9	30
			2.0 m	92.257.2000.9	20	92.257.2003.9	20
			3.0 m	92.257.3000.9	15	92.257.3003.9	15
			4.0 m	92.257.4000.9	10	92.257.4003.9	10
			5.0 m	92.257.5000.9	10	92.257.5003.9	10
			6.0 m	92.257.6000.9	8	92.257.6003.9	8
			7.0 m	92.257.7000.9	5	92.257.7003.9	5
			8.0 m	92.257.8000.9	5	92.257.8003.9	5
Type			GST 18i5 K1BS 1,5	GST 18i5 K1B- 1,5		GST 18i5 K1-S 1,5	
							
¹⁾ Other lengths available on request ²⁾ Modification of the sheath/insulation strip lengths available on request							

¹⁾ Other lengths available on request

²⁾ Modification of the sheath/insulation strip lengths available on request



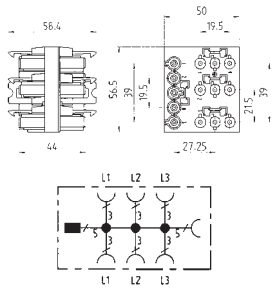
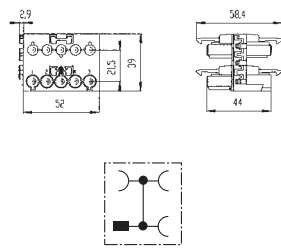
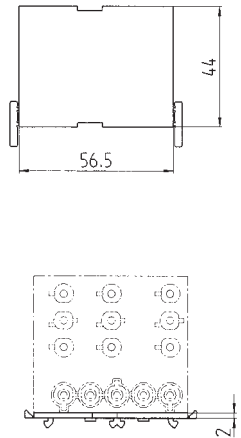
	Extender lead		Starter lead		Connection lead	
	5 x 2.5 mm ² female – male		5 x 2.5 mm ² female – free end with ferrules ²⁾		5 x 2.5 mm ² male – free end with ferrules ²⁾	
Standard PVC cable Type H05VV-F5G2.5						
	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.
1.0 m	92.258.1000.1	30	92.258.1003.1	30	92.258.1004.1	30
2.0 m	92.258.2000.1	20	92.258.2003.1	20	92.258.2004.1	20
3.0 m	92.258.3000.1	15	92.258.3003.1	15	92.258.3004.1	15
4.0 m	92.258.4000.1	10	92.258.4003.1	10	92.258.4004.1	10
5.0 m	92.258.5000.1	8	92.258.5003.1	8	92.258.5004.1	8
6.0 m	92.258.6000.1	5	92.258.6003.1	5	92.258.6004.1	5
7.0 m	92.258.7000.1	5	92.258.7003.1	5	92.258.7004.1	5
8.0 m	92.258.8000.1	5	92.258.8003.1	5	92.258.8004.1	5
Type	GST 18i5 K1BS 2,5		GST 18i5 K1B- 2,5		GST 18i5 K1-S 2,5	
						

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	Extender lead		Starter lead		Connection lead		
	5 x 2.5 mm² female – male		5 x 2.5 mm² female – free end with ferrules ²⁾		5 x 2.5 mm² male – free end with ferrules ²⁾		
Standard PVC cable Type S05VV-F5G2.5							
	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
	1.0 m	92.258.1060.1	30	92.258.1063.1	30	92.258.1064.1	30
	2.0 m	92.258.2060.1	20	92.258.2063.1	20	92.258.2064.1	20
	3.0 m	92.258.3060.1	15	92.258.3063.1	15	92.258.3064.1	15
	4.0 m	92.258.4060.1	10	92.258.4063.1	10	92.258.4064.1	10
	5.0 m	92.258.5060.1	8	92.258.5063.1	8	92.258.5064.1	8
	6.0 m	92.258.6060.1	5	92.258.6063.1	5	92.258.6064.1	5
	7.0 m	92.258.7060.1	5	92.258.7063.1	5	92.258.7064.1	5
	8.0 m	92.258.8060.1	5	92.258.8063.1	5	92.258.8064.1	5
Type	GST 18i5 K1BS 2,5		GST 18i5 K1B- 2,5		GST 18i5 K1-S 2,5		



			Distribution block		Distribution block		Mounting plate	
			5/3 pole with locking device. Through wiring for three-phase current; 5 pole male and female connectors; two outgoing single phase circuits for each phase. (see DIN VDE 0100 part 430 section 9.2 for protection of the neutral conductor – by making the load distribution as symmetrical as possible, excessive loading of the neutral conductor can be avoided).		5 pole with locking device 1 input, 5 pole male connector 3 outputs, 5 pole female connector		for Distribution block 5 pole; 5/3 pole for panel mounting (see “Accessories” for steel fixing plate)	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Distribution blocks								
Mains with earth	Code 1 	black (on request) white	92.050.0153.1	100	92.050.0353.1	60	07.413.5553.1	100
Dimming L, N, PE, +, -	Code 2 	pastel blue						
Type			GST 18i5V37A1		GST 18i5V3P1			

Note:
see "Accessories" for
steel fixing plate



Mounting plate

for Distribution block 5 pole;
5/3 pole

for bolt on fixing

Distribution block T-connector

with locking device
1 input,
5 pole male connector
2 outputs,
5 pole female connector

Distribution block T-connector

with locking device.
Through wiring for three-phase current,

5 pole male and female connectors

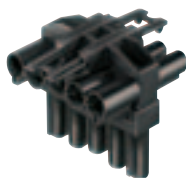
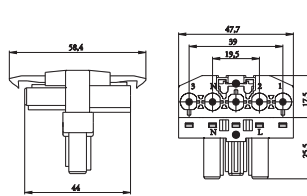
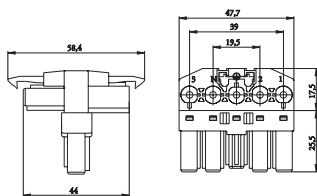
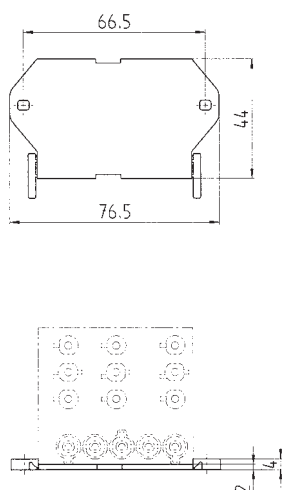
**3 pole connector for single phase
current.**

Select product for phase required

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty



Select the phase conductor

07.413.5453.1 100

92.050.1053.1 100

L1: 92.050.4153.1
L2: 92.050.4253.1
L3: 92.050.4353.1

92.050.1453.0 100

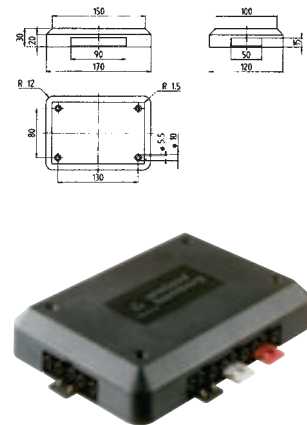
GST 18i5 V2P1 T

GST 18i5 V2A1 T

Distribution box

with locking device

Distribution box with 8 ports. Can be fitted as required with 3, 4 and 5 pole male and female connectors. Optional internal wiring depending on the application. See "Distribution units" for further information.



See "Distribution units" for further information



Sample sets

For GST 18i5

Part No.	Box Qty
----------	---------



Contents:

- GST 18i5 Connection cable
5 x 2.5 mm², male-free end
92.258.XY04.1
Sample length
- GST 18i5 screw connection, female connector
92.953.3053.1
- GST 18i5 Snap in, spring-loaded connection, male connector
92.052.9658.1
- GST 18i5 Distribution block 5/3
92.050.0153.1
- Mounting plate for screw fixing
07.413.5432.1
- GST locking device for free cable connection
05.587.3156.1
- GST 18i3 Extension cable
3 x 1.5 mm²
92.232.0200.1

99.480.0000.0	1
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GST 18i5

5 pole mains

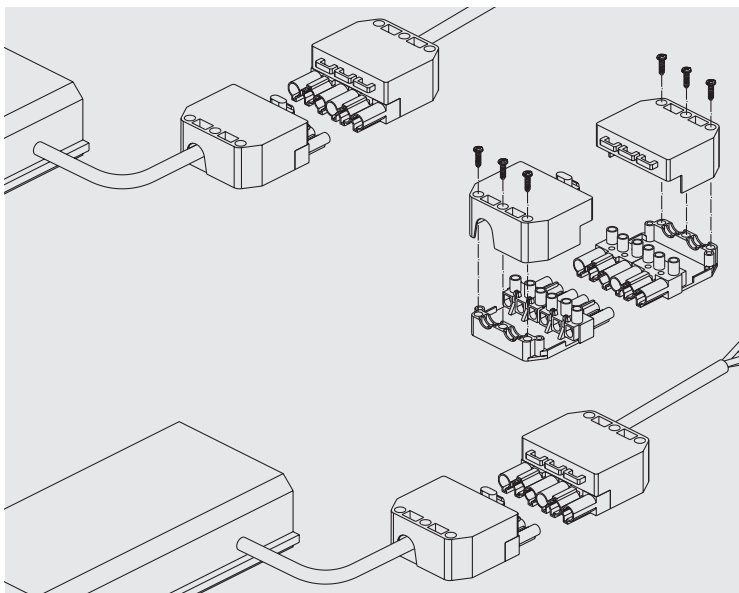




GST 18i6

*(3+1) pole mains/emergency power
2 pole dimming*

Application example



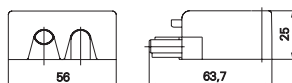
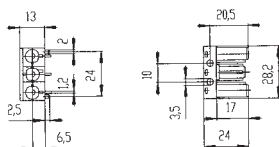
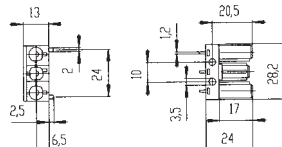
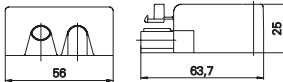
General

This combination connector has been specially designed for the electrical supply to dimmable lamps with an additional permanent supply. It has the corresponding mechanical coding. Mechanical coding means that only associated pairs of male and female connectors can be connected with the correct polarity. You therefore have the security that you cannot mistake these connectors for those of other ranges and you thus have a clear segregation of different applications. The colour of the connectors indicates the relevant links.

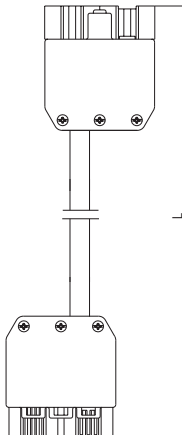
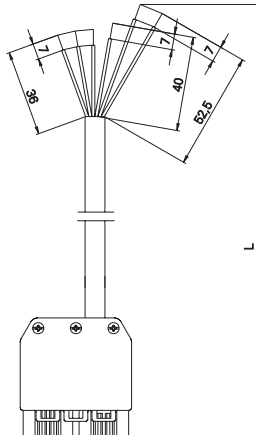
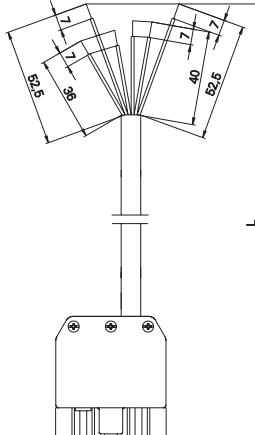
Coding

					Application
					Combin. mains/emerg. pow. 3+1 pole, dimming 2 pole
					Mechanical coding
					Code 1
					
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black/pastel blue
Connector		screw	yes	1	
Solder conn.	90°	Solder pins		1	
	Vertical	Solder pins		1	
Prefabricated cables	Male conn. – free end	preassembled	preassembled	preassembled	
	Female conn. – free end				
	Male conn. – Fem. conn.				

GST 18i 6 pole 250 V, 16 A

			Combination connector		Soldered connection, horizontal		Soldered connection, vertical	
			2 x GST 18i3 mechanical coding for dimming applications unassembled. Strain relief for S05HH-F6G1.5 ¹⁾ cable. Cross section 1.5 mm ² Cable diameter 10 - 12 mm Pole designation: L, PE, N, 1,2,3		Can be soldered onto a printed circuit board – horizontal ²⁾ – with locating cams – locking device on housing can be fitted See “Technical Data” for hole template for GST 18 soldered connector		Can be soldered onto a printed circuit board – vertical – with locating cams – locking device on housing can be fitted See “Technical Data” for hole template for GST 18 soldered connector	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector			 		  Separate part numbers!		  Separate part numbers!	
Combination of (3+1) pole mains/emergency power 2 pole dimming		black pastel blue	92.969.0158.1		92.033.0058.1 100 92.033.0458.1 100		92.031.0058.1 100 92.031.0458.1 100	
Type			GST18i6S B1NZR1V		GST18i3L B1H		GST18i3L B1V	
Application	Coding	Colour	Part No.	Box Qty				
Male connector			 					
Combination of (3+1) pole mains/emergency power 2 pole dimming		black pastel blue	92.968.0158.1					
Type			GST18i6S S1NZR1V					
¹⁾ Other cables available on request ²⁾ Horizontal versions available on request								

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			Extender lead		(3+1) pole mains/emergency power Starter lead		Dimming 2 pole Connection lead		
Cable: S05HH-F6G1.5			6 x 1.5 mm ² female – male		6 x 1.5 mm ² female – free end Cable ends with ferrules ⁴⁾		6 x 1.5 mm ² male – free end Cable ends with ferrules ⁴⁾		
Insulation: halogen-free									
Cable assemblies			Cable S05 HH-F6G 1.5 black, halogen free						
									
Application	Coding	Colour	Length ³⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Combination of (3+1) pole mains/ emergency power, 2 pole dimming	Cable 1 Female 3 2 1 N PE L  Male L PE N 1 2 3 	black/ pastel blue	1.0 m	99.411.0028.0		99.431.0028.0		99.451.0028.0	
		2.0 m	99.412.0028.0		99.432.0028.0		99.452.0028.0		
		3.0 m	99.413.0028.0		99.433.0028.0		99.453.0028.0		
		4.0 m	99.414.0028.0		99.434.0028.0		99.454.0028.0		
		5.0 m	99.415.0028.0		99.435.0028.0		99.455.0028.0		
		6.0 m	99.416.0028.0		99.436.0028.0		99.456.0028.0		
		7.0 m	99.417.0028.0		99.437.0028.0		99.457.0028.0		
		8.0 m	99.418.0028.0		99.438.0028.0		99.458.0028.0		
		cable black							
Other wiring configurations available upon request			Type	GST18i6KSBS 15H		GST18i6KSB- 15H		GST18i6KS-S 15H	
									

³⁾ Other lengths available on request

⁴⁾ Modification of the sheath/insulation strip lengths available on request

³⁾ Other lengths available on request

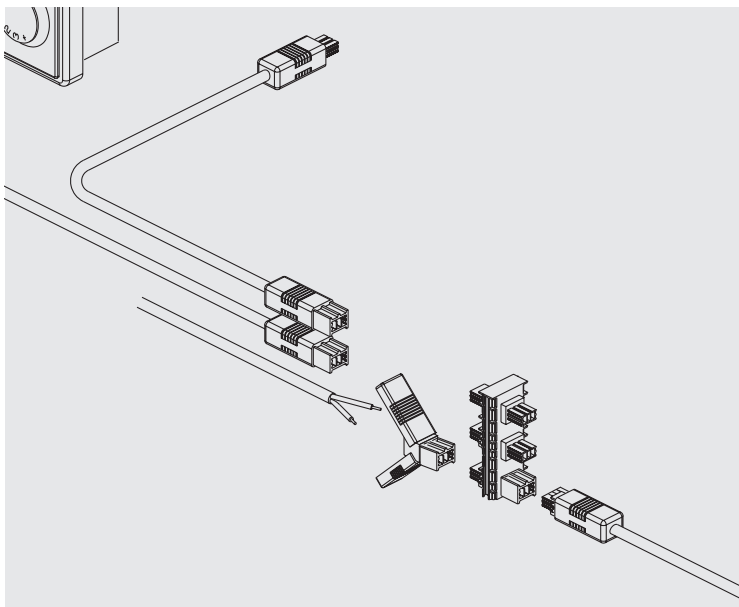
⁴⁾ Modification of the sheath/insulation strip lengths available on request



BST 14i2

EIB Bus Dimming 2 pole

Application example



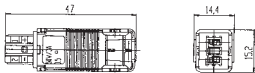
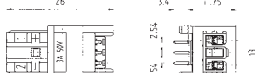
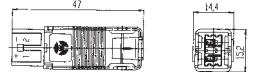
General

Connectors for EIB applications have a unique mechanical coding which is visually defined by the colour green. The mechanical coding "Code 2" is specially intended for the transfer of both analogue and digital dimming signals. Mechanical coding means that only associated pairs of male and female connectors can be connected with the correct polarity. You therefore have the security of a clear segregation of different applications without having to redo any incorrect connections. The colour of the connectors indicates the relevant links. If only one code differentiation is sufficient or required, you can choose between two colour combinations within a coding. These connectors are then mutually compatible.

Coding

					Mechanical coding		Code 1	Code 2
								
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black/green	white/green	black/pastel blue	white/pastel blue
Connector		Spring	yes	1				
Snap in	For material thickness: 0.5 - 1.5 mm	Spring		1		upon request		upon request
Solder conn.	90°	Solder pins		1				
Junction	Lighting connection	Spring		1				
	1 input 5 outputs	preassembled	preassembled	preassembled				
	1 input 3 outputs							
Prefabricated cables	Male conn. – free end					upon request		upon request
	Female conn. – free end							
	Male conn. – Fem. conn.							

BST 14i 2 pole 50 V, 3 A

			Spring-loaded connection		Snap-in, Spring-loaded		Soldered connection, horizontal	
Connector for control signals – with integrated latching device			for single-core and finely stranded cables 0.25 – 0.75 mm ² , assembled with strain relief and integrated latching device for cable Ø 5.5 – 6.5 mm ¹⁾		Panel mounting ²⁾ for single-core and finely-stranded cables 0.25 – 0.75 mm ² with integrated latching device Coding "Code 2 - Dimming" is supplied with blanking cover		Can be soldered onto a printed circuit board – with locating cams – with integrated latching device	
			Sheath strip length: 23 mm Insulation strip length: 9 mm		Insulation strip length: 9 mm		See "Technical Data" for hole template for BST 14 soldered connector	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector			     Section of housing Material thickness: 0.5 – 1.5 mm  Diagram of BST 14i2 Code 1					
EIB Bus 2 pole	Code 1 	black/green	93.421.0553.1	50	93.421.0353.1	100	93.421.0653.1	100
Dimming 2 pole	Code 2 	black/pastel blue	93.421.4553.1	50	93.421.4353.1	100		
Male connector			     Section of housing Material thickness: 0.5 – 1.5 mm  Diagram BST 14i2 Code 1					
EIB Bus 2 pole	Code 1 	black/green green	93.422.0553.1	50	93.422.0353.1	100	93.422.0653.1	100
Dimming 2 pole	Code 2 	black/pastel blue	93.422.4553.1	50	93.422.4353.1	100		
			Type BST 14i2F S1 Z		Type BST 14i2F S1 R		Type BST 14i2 L S1	
			¹⁾ Other cables and cable cross-sections available on request		²⁾ Panel material, deburring and coating thickness may influence the cut-out dimension			

BST 14i2

EIB Bus Dimming 2 pole

Distribution block

Distribution block

TT Connector

with locking device

1 input
2 pole male connector
5 outputs
2 pole female connector

with locking device

1 input
2 pole male connector
3 outputs
2 pole female connector

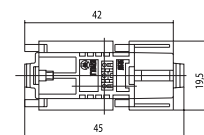
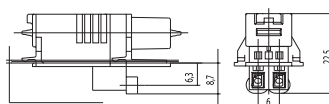
TT Connector with locking device

1 input,
2 pole male connector
1 output,
2 pole female connector
with integrated spring clamp terminal
for internal wiring of the luminaire's
panel mounting.
Sheath strip length: 23 mm
Insulation strip length: 9 mm

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

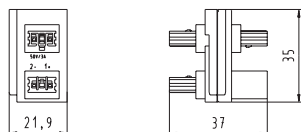
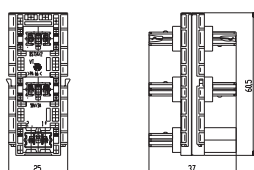


93.420.4553.0 50

BST 14i2V 2P1

Part No. Box Qty

Part No. Box Qty

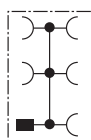


93.420.0053.0 50

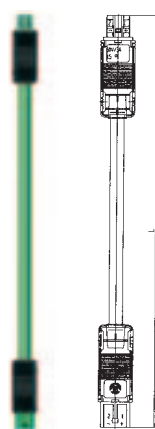
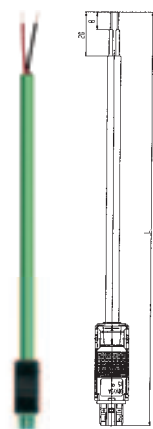
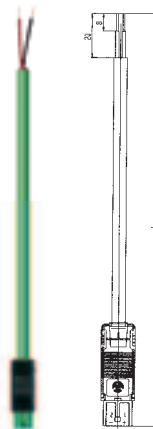
93.420.0453.0 50

BST 14i2V 5P1

BST 14i2V 3P1



BST 14i 2 pole 50 V, 3 A

			Extender lead		Starter lead		Connection lead	
			2 x 0.5 mm ² EIB Bus female – male		2 x 0.5 mm ² EIB Bus female – free end ³⁾		2 x 0.5 mm ² EIB Bus male – free end ³⁾	
Cable assemblies								
EIB Bus connector								
Dimming connector								
– requirements according to the EIB manual								
– intended for connectable EIB applications								
– denoted by a green contact area								
– coding according to EIB standards								
– with integrated latching device								
– green cable, cross section: 0.5 mm ² FB-2Y (ST) 2 x (2 x 0.8) ^{2) 4)}								
– EIB certified								
Dimming connector								
– denoted by a pastel blue contact area								
– grey cable, cross section: 0.5 mm ² FB-2Y (ST) 2 x (2 x 0.8) ²⁾								

Sample set

for BST 14i2, EIB Bus

Part No.	Box Qty
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Contents:

- Prefabricated cable,
male – free end
94.425.XY04.7
Sample length
- Spring-loaded connector, female
connector
93.421.0553.1
- Snap-in male connector
93.422.0353.1
- Flat cable
00.702.1022.3
- BST 14i2 Adapter
93.421.0953.0
- Distribution board
93.420.0053.0

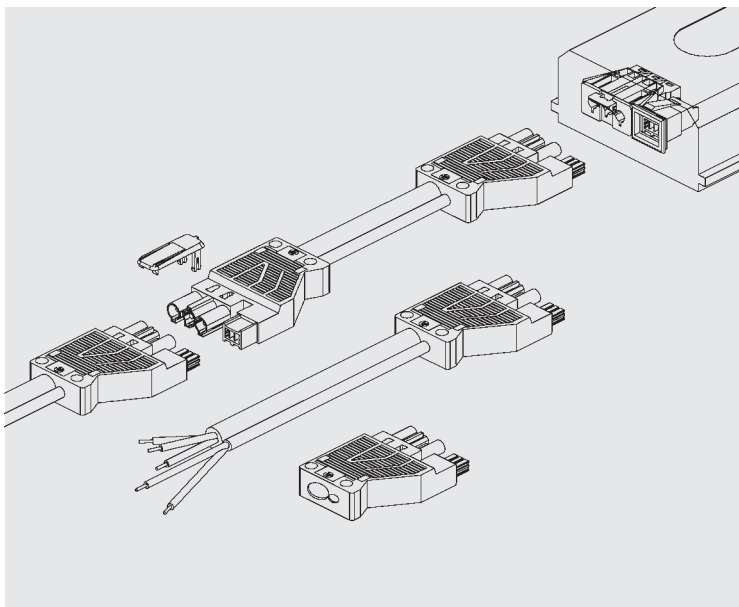
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EST 2i3

3 pole mains 2 pole EIB Bus

Application example



General

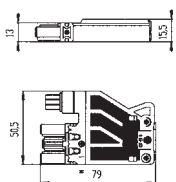
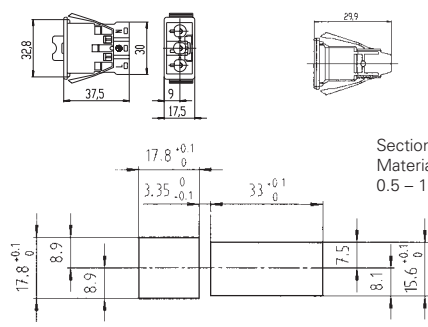
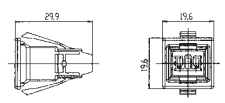
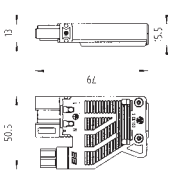
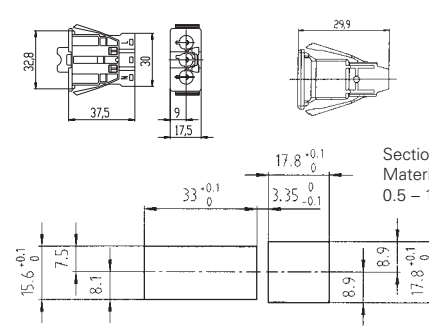
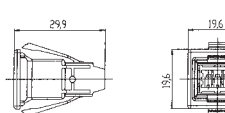
On the supply side, these connectors are designed with 3 poles and have the designation of L, N and PE. The signal component is intended for the transfer of the EIB Bus signal for mechanical coding "Code 1". It is also possible to run dimming signals in parallel to the mains supply. The difference between the two mechanical codes lies in the signal component.

Mechanical coding means that only associated pairs of male and female connectors can be connected with the correct polarity. You therefore have the security of a clear segregation of different applications without having to redo any incorrect connections. The colour of the connectors indicate the relevant links. If only one code differentiation is sufficient or required, you can choose between two code combinations within the codes. These connectors are then mutually compatible.

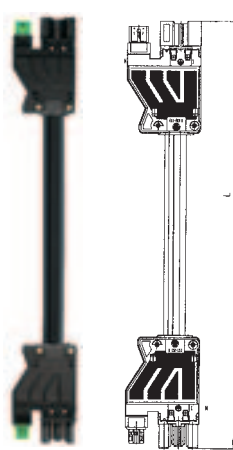
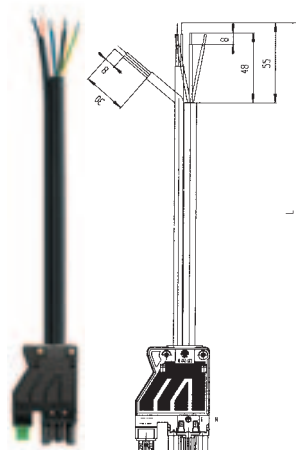
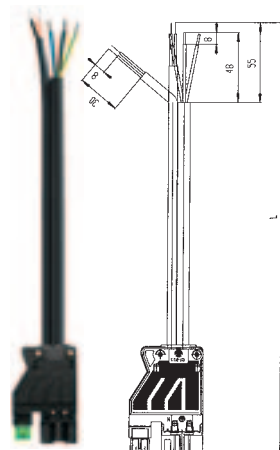
Coding

					Application		Combination Mains 3 pole, Dimming 2 pole
					Mechanical coding		Code 1
							Code 2
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black/green	white/green	black/pastel blue
Connector	Compact connector	Spring/screw	yes	1			
Snap in	For material thickness: 0.5-1.5 mm	Spring		1			
Solder conn.	90°	Solder pins		1			
Prefabricated cables	Male conn. – free end	preassembled	preassembled	preassembled		upon request	upon request
	Female conn. – free end						
	Male conn. – Fem. conn.						

EST 2i3 2 pole 50 V, 3 A – 3 pole 250 V, 16 A

Combination connector			Snap-in, Spring-loaded					
Combination connector for 3 pole mains and 2 pole EIB Bus			Mains: 3 pole, GST18i coding Screw connection 1.5 – 2.5 mm ² single- core/finely stranded Bus: 2 pole, BST 14i2 coding, Spring- loaded connection 0.25 – 0.75 mm ² , single core/finely stranded, unassem- bled with strain relief for twin cord cables LiYY, H05VV or NYM and bus cable Ø 5.5 – 6.5 mm Sheath strip length Insulation strip length Mains: 48 mm 7 mm Bus: 30 mm 9 mm					
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector EIB Bus connector – requirements according to the EIB manual – intended for connectable EIB applications – denoted by a green contact area for EIB Bus – coding according to EIB standards			 		    Section of housing Material thickness: 0.5 – 1.5 mm			
Combination of 3 pole mains and + 2 pole EIB Bus		black/green	93.501.0553.1	10	92.031.9658.1	100	93.421.0353.1	100
Type			EST 2i3FS B1 Z		GST 18i3F B2 R		BST 14i2F B1 R	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Male connector			 		    Section of housing Material thickness: 0.5 – 1.5 mm			
Combination of 3 pole mains and + 2 pole EIB Bus		black/green	93.502.0553.1	10	92.032.9658.1	100	93.422.0353.1	100
Type			EST 2i3FS S1 Z		GST 18i3F S2 R		BST 14i2F S1 R	
all products are compatible with the connection of individual components					1) Panel material, deburring and coating thickness may influence the cut-out dimension. Detailed installation instructions are available on request. 2) See “Accessories” for ferrules and clamping tools.			

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				Extender lead		Starter lead		3 pole mains – 2 pole EIB Bus Connection lead			
				Mains – EIB Bus female – male		Mains – EIB Bus female – free end with ferrules ⁴⁾		Mains – EIB Bus male – free end with ferrules ⁴⁾			
Cable assemblies with combination cable for mains and EIB bus Twin cord for mains: 3 x 1.5 mm² finely stranded²⁾ Bus: 1 x 2 x 0.8 PIMF single core Type: LiYY...³⁾, Coding black											
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty		
Combination of 3 pole mains and + 2 pole EIB Bus	Female 1+ / I2- N PE 1  Male 1 PE N 2+ / I1+ 	black/green	1.0 m	94.502.1000.7	30	94.502.1003.7	40	94.502.1004.7	40		
			2.0 m	94.502.2000.7	20	94.502.2003.7	20	94.502.2004.7	20		
			3.0 m	94.502.3000.7	15	94.502.3003.7	15	94.502.3004.7	15		
			4.0 m	94.502.4000.7	10	94.502.4003.7	10	94.502.4004.7	10		
			5.0 m	94.502.5000.7	10	94.502.5003.7	10	94.502.5004.7	10		
			6.0 m	94.502.6000.7	8	94.502.6003.7	8	94.502.6004.7	8		
			7.0 m	94.502.7000.7	6	94.502.7003.7	6	94.502.7004.7	6		
			8.0 m	94.502.8000.7	5	94.502.8003.7	5	94.502.8004.7	5		
Type				EST 2i3FKSB S		EST 2i3FKB		EST 2i3FKS-S			
				¹⁾ other lengths available on request ²⁾ 2.5 mm² available on request ³⁾ Halogen free version available on request ⁴⁾ Modification of the sheath/insulation strip lengths available on request							

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EST 2i3 2 pole 50 V, 3 A – 3 pole 250 V, 16 A

Sample set

for EST 2i3

Part No.	Box Qty
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Contents:

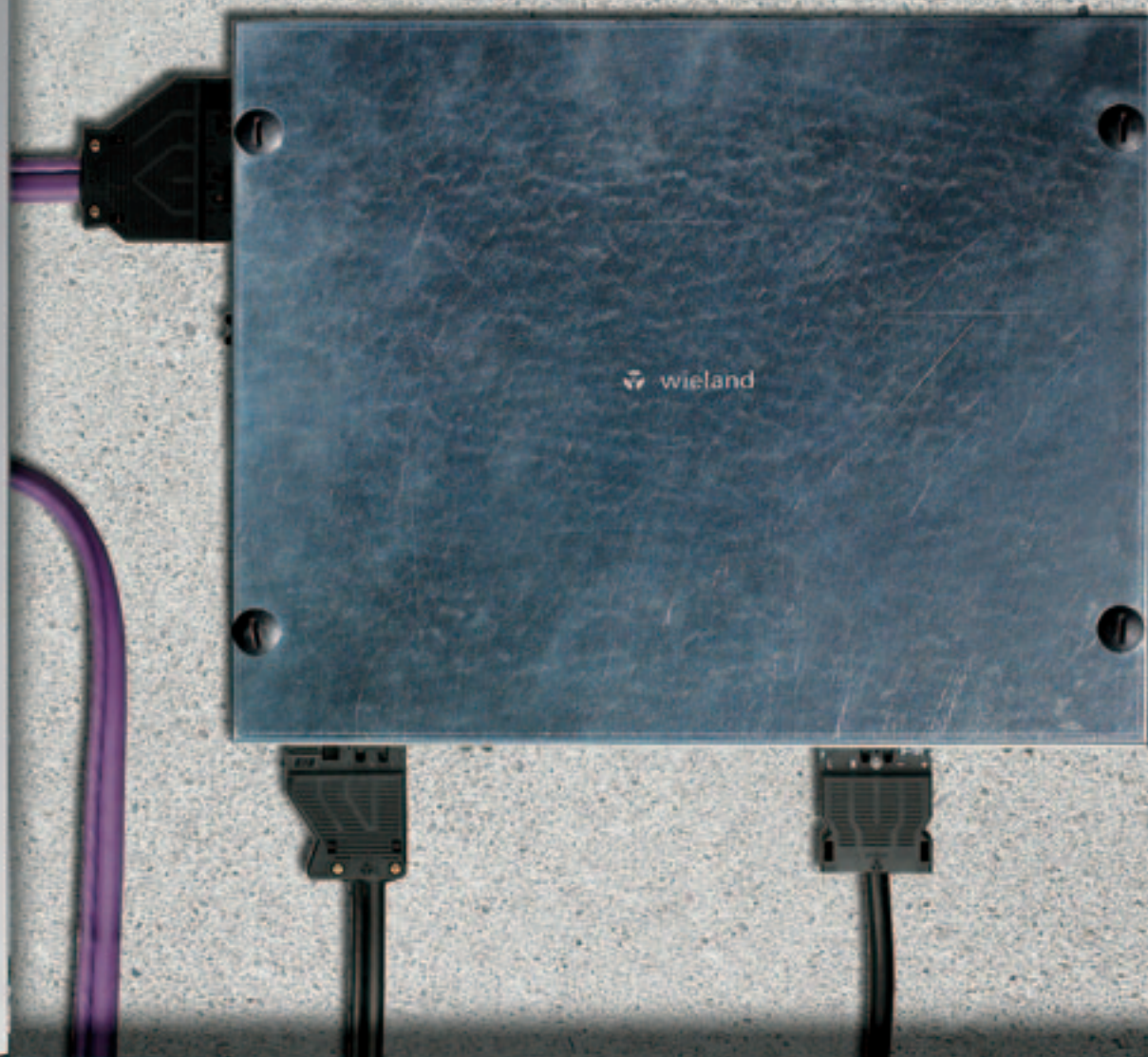
- Prefabricated cable,
Male – free end
94.502.XY04.7
sample length
- Combination connector,
female connector
93.501.0553.1
- BST 14i2 Snap-in male connector
93.422.0353.1
- GST 18i3 Snap-in male connector
92.032.9658.1

99.473.0000.0	1
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EST 2i3

3 pole mains 2 pole EIB Bus

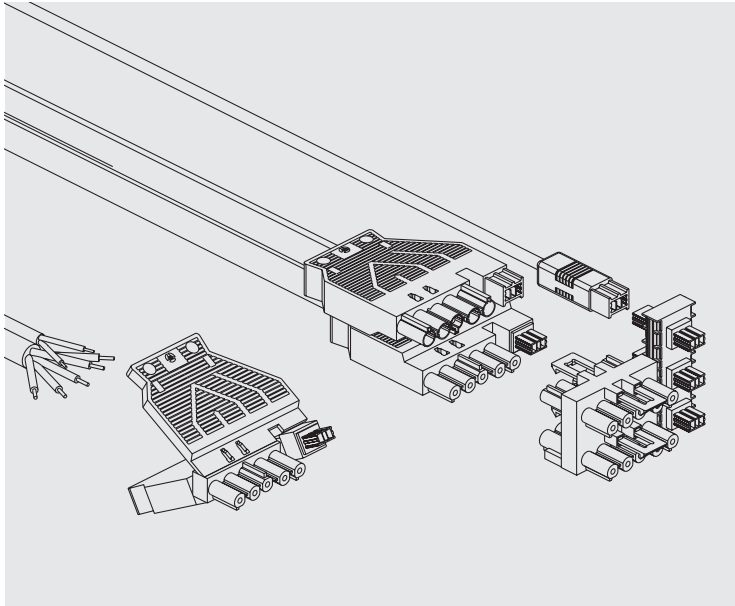




EST 2i5

5 pole mains 2 pole EIB Bus

Application example



General

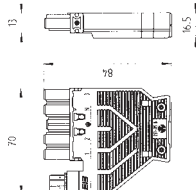
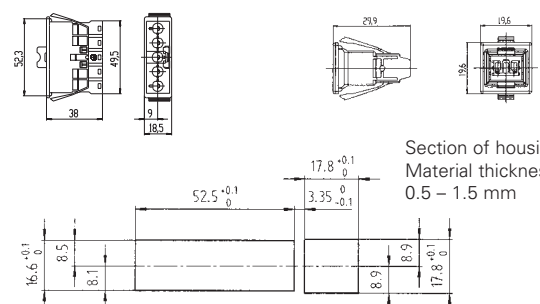
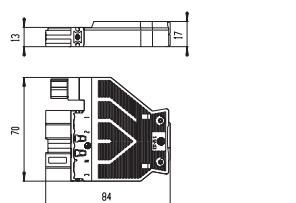
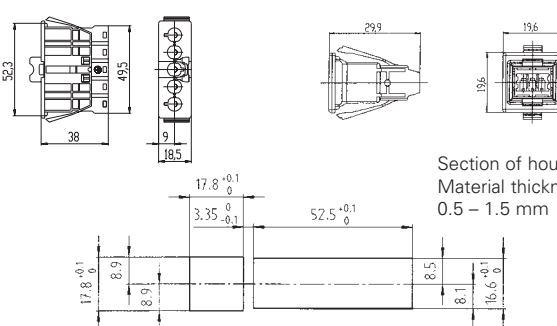
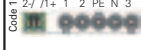
On the supply side, these connectors are designed with 5 poles and have the designation of 1, 2, PE, N, 3. The signal component is intended for the transfer of the EIB Bus signal for mechanical coding "Code 1". It is also possible to lead dimming signals in parallel to the mains supply. The difference between the two mechanical codes lies in the signal component. Mechanical coding means that only associated pairs of male and female can be connected with the correct polarity. You therefore have the security of a clear segregation of different applications without having to redo any incorrect connections. The colour of the connectors indicates the relevant links. If only one code differentiation is sufficient or required, you can choose between two code combinations within the codes. These connectors are then mutually compatible.



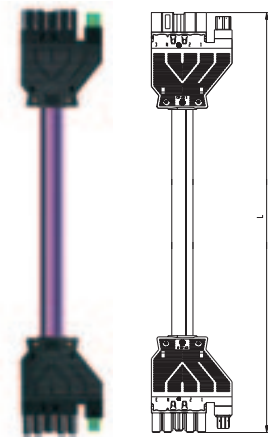
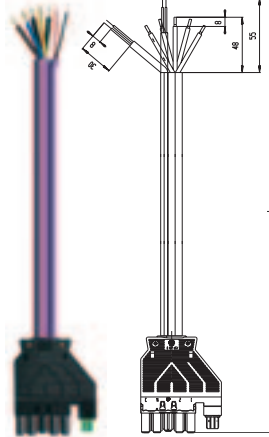
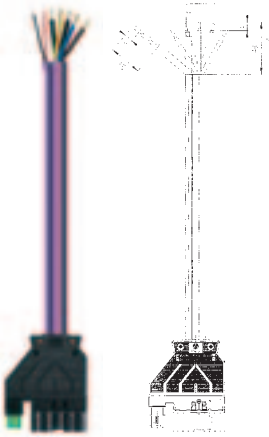
Coding

					Application		Combination mains 5 pole, EIB 2 pole
					Mechanical coding		Combination mains 5 pole Dimming 2 pole
					Code 1		Code 2
							
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black/green	white /green	black/pastel blue
Connector	Compact-connector	Spring/ Screw	yes	1		upon request	upon request
Snap in	For material thickness: 0.5-1.5 mm	Spring		1			
Solder conn.	90°	Solder pins		1			
Comb. junct.	1 input 3 outputs Mains 5 pole 1 input 5 outputs EIB						
Prefabricated cables	Male conn. – free end	preassembled	preassembled	preassembled		upon request	upon request
	Female conn. – free end						
	Male conn. – fem. conn.						

EST 2i5 2 pole 50 V, 3 A – 5 pole 250/400 V, 16 A

Combination connector			Snap-in, spring-loaded					
Combination connector for 5 pole mains and EIB Bus			Mains: 5 pole, GST18i5 coding screw connection 2.5 mm ² , single core and finely stranded Bus: 2 pole, BST 14i2 coding, Spring loaded connection 0.25 – 0.75 mm ² , single core and finely stranded unassembled with strain relief for twin cord cables LiYY, H05VV or NYM and bus cable Ø 5.5 – 6.5 mm Sheath strip length Insulation strip length Mains: 48 mm 7 mm Bus: 30 mm 9 mm		Mains: Panel mounting ¹⁾ GST 18i5 coding, 2 screwless connections per pole, finely stranded cable 0.5 – 1.5 mm ² with ferrule ²⁾ , rigid cable 0.5 – 2.5 mm ² Bus: panel mounting ¹⁾ BST14i2 coding for single-core and finely-stranded cables 0.25 – 0.75 mm ² with locking device			
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector EIB Bus connector – requirements according to the EIB manual – intended for connectable EIB applications – denoted by a green contact area for EIB Bus – coding according to EIB standards			 		   Section of housing Material thickness: 0.5 – 1.5 mm			
Combination of 5 pole mains + 2 pole EIB Bus		black/green	93.551.0553.1	50	92.051.9658.1	100	93.421.0353.1	100
Type			EST 2i5FS B1 Z		GST 18i5F B2 R		BST 14i2F B1 R	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Male connector			 		   Section of housing Material thickness: 0.5 – 1.5 mm			
Combination of 5 pole mains + 2 pole EIB Bus		black/green	93.552.0553.1	50	92.052.9658.1	100	93.422.0353.1	100
Type			EST 2i5FS S1 Z		GST 18i5F S2 R		BST 14i2F S1 R	
All products are compatible with the connection of individual components					¹⁾ Panel material, deburring and coating thickness may influence the cut-out dimensions. Detailed installation instructions are available on request. ²⁾ See “Accessories” for ferrules and clamping tools			

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				Extender lead ¹⁾		Starter lead ²⁾		Connection lead ³⁾	
				Mains – EIB Bus female – male		Mains – EIB Bus female – free end with ferrules ⁴⁾		Mains – EIB Bus male – free end with ferrules ⁴⁾	
Cable assemblies with combination cable for mains and EIB Bus Twin cord for mains: 5 x 2.5 mm² finely stranded EIB Bus: 1 x 2 x 0.8 PIMF single core Type: LiYY ²⁾ 5 x 2.5 mm², Colour: purple									
Application	Coding	Colour	Length ³⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Combination of 5 pole + 2 pole mains	Female 3 N PE 2 1 1+/ 2- Male 2/ 1+ 1 2 PE N 3	black/green	1.0 m	94.553.1000.7	20	94.553.1003.7	20	94.553.1004.7	20
			2.0 m	94.553.2000.7	10	94.553.2003.7	10	94.553.2004.7	10
			3.0 m	94.553.3000.7	8	94.553.3003.7	8	94.553.3004.7	8
			4.0 m	94.553.4000.7	5	94.553.4003.7	5	94.553.4004.7	5
			5.0 m	94.553.5000.7	5	94.553.5003.7	5	94.553.5004.7	5
			6.0 m	94.553.6000.7	4	94.553.6003.7	4	94.553.6004.7	4
			7.0 m	94.553.7000.7	4	94.553.7003.7	4	94.553.7004.7	4
			8.0 m	94.553.8000.7	3	94.553.8003.7	3	94.553.8004.7	3
			Type	EST 2i5FKSBS		EST 2i5FKSB		EST 2i5FKS-S	
			¹⁾ 5 pole cables with phase rotation available on request ²⁾ Halogen free version available on request ³⁾ Other lengths available on request ⁴⁾ Modification of the sheath/insulation strip lengths available on request						

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EST 2i5 2 pole 50 V, 3 A – 5 pole 250/400 V, 16 A

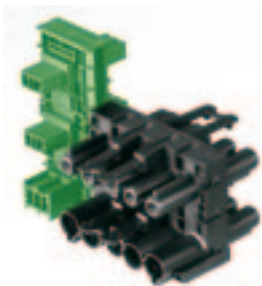
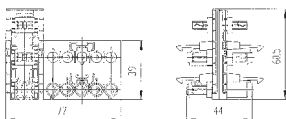
Combination Distribution block

with locking device

Mains: 5 pole, GST 18i5 coding, black,
1 incoming (male connector),
3 outgoing (female connector)

Bus: 2 pole, BST 14i2 coding, green,
1 incoming (male connector),
5 outgoing (female connector)

Part No.	Box Qty
----------	---------



93.550.0053.1 25

Fixing option with steel
fixing plate 07.413.5553.1
(see page 42).

Type EST 2i5V8P2

Sample set

for EST 2i5

Part No.	Box Qty
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Contents:

Prefabricated cable,
Male – free end
94.553.XY04.7
sample length

Combination connector,
female connector
93.551.0553.1

BST 14i2 Snap-in male connector
93.422.0353.1

GST 18i5 Snap-in male connector
92.052.9658.1

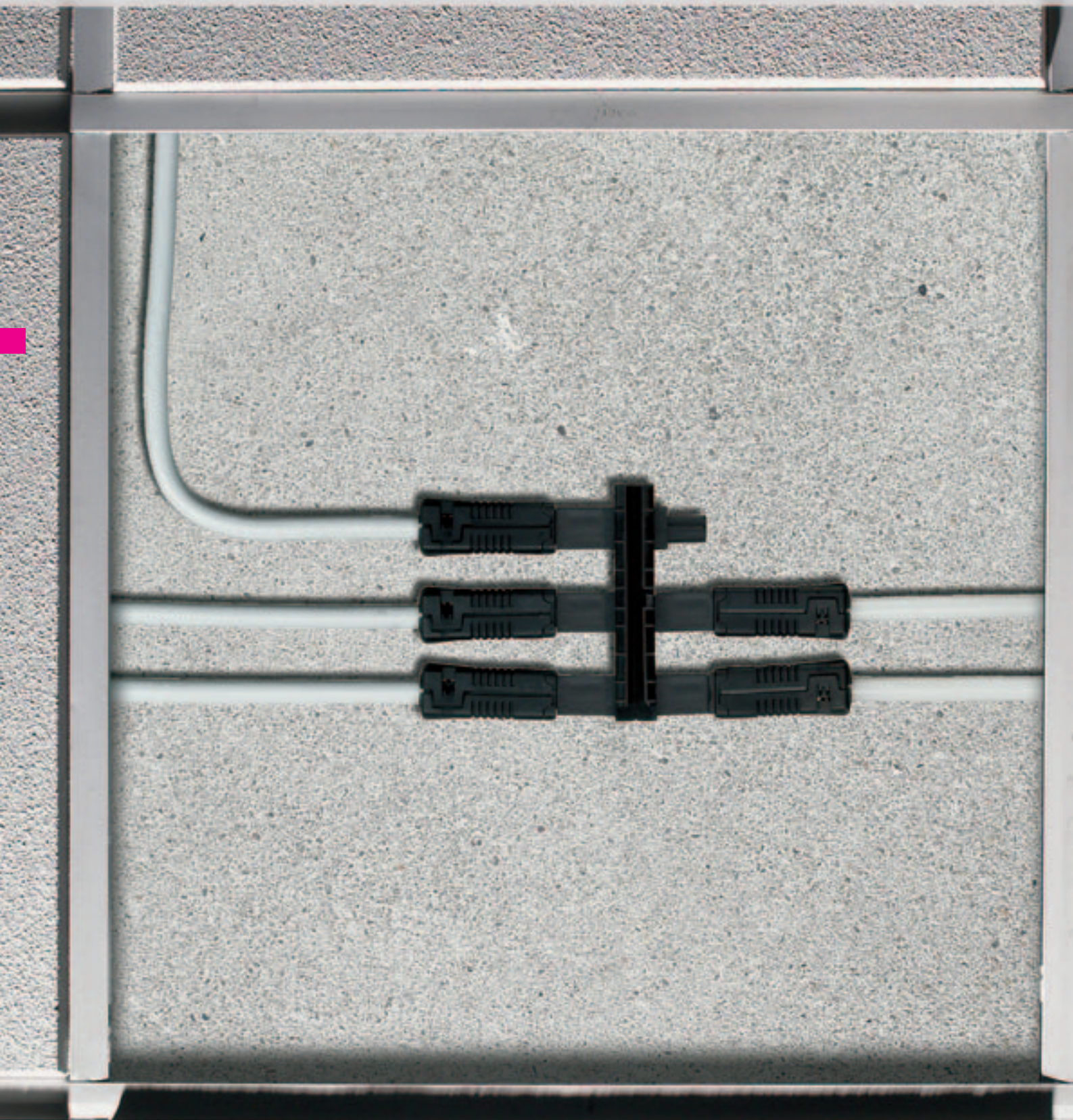
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EST 2i5

5 pole mains 2 pole EIB Bus



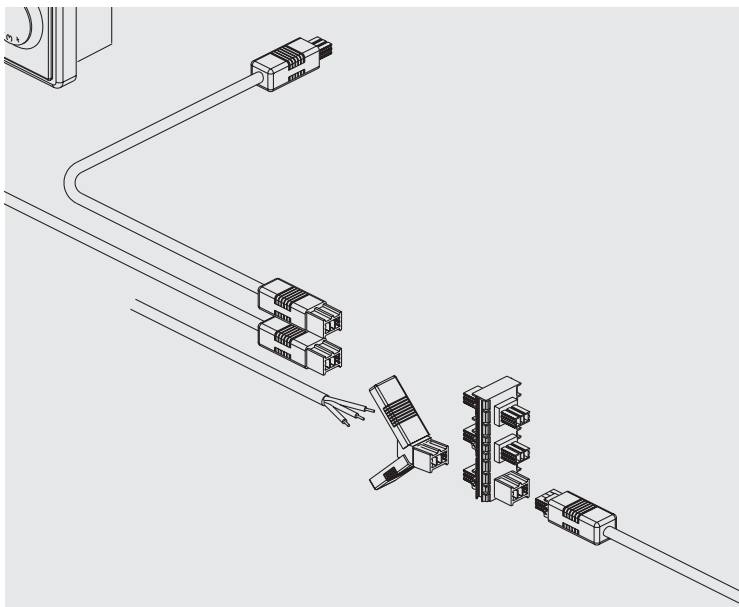
gesis[®]



BST 14i3

3 pole signal

Application example



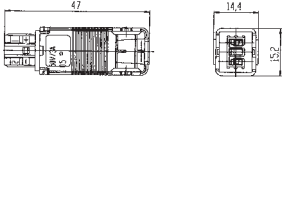
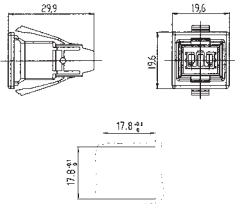
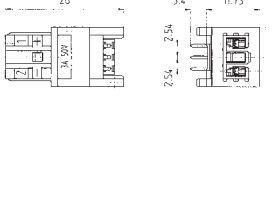
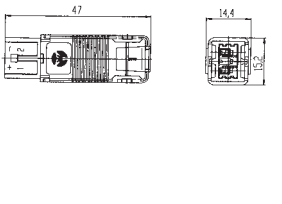
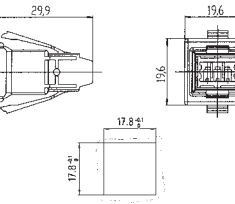
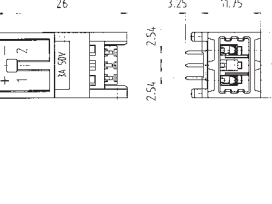
General

These connectors are designed for use with bus/control signals and have colour and mechanical coding. Mechanical coding means that only male and female connectors of the same coding can be connected with the correct polarity. You therefore have the security that you cannot mistake these connectors for those of other applications and you thus have a clear segregation of different applications. The colour of the connectors indicates the relevant usage. All the colour combinations within a mechanical code can be connected together.

Coding

					Application	
					Bus and control signals 3 pole	
					Mechanical coding	
					Code 3	
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black	white
Connector		Spring	yes	1		
Snap in	For material thickness: 0.5-1.5 mm	Spring		1		
Solder conn.	90°	Solder pins		1		
Junction	1 input 5 outputs					upon request
	1 input 3 outputs					
Prefabricated cables	Male conn. – free end	preassembled	preassembled	preassembled		upon request
	Female conn. – free end					
	Male conn. – fem. conn.					

BST 14i 3 pole 50 V, 3 A

			Spring loaded connection		Snap-in, spring loaded		Soldered connection, horizontal	
Connector for control signals – with integrated latching device			For single core and finely stranded cables 0.25 – 0.75 mm ² fully assembled with strain relief and integrated latching device for cable Ø 5.5 – 6.5 mm ² ¹⁾		Panel mounting, ²⁾ for single core and finely stranded cables 0.25 – 0.75 mm ² with integrated latching device		Can be soldered onto a printed circuit board – with locating cams – with integrated latching device	
			Sheath strip length: 23 mm Insulation strip length: 9 mm		Insulation strip length: 9 mm		See "Technical data" for hole template for BST 14 soldered connector	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector			 Section of housing Material thickness: 0.5 – 1.5 mm		 Section of housing Material thickness: 0.5 – 1.5 mm		 Section of housing Material thickness: 0.5 – 1.5 mm	
								
Bus and control signal 2 pole + screen	1+ / 2- 	black	93.431.2553.1	50	93.431.2353.1	100	93.431.2653.1	100
Male connector			 Section of housing Material thickness: 0.5 – 1.5 mm		 Section of housing Material thickness: 0.5 – 1.5 mm		 Section of housing Material thickness: 0.5 – 1.5 mm	
								
Bus and control signal 2 pole and screen	2- / 1+ 	black	93.432.2553.1	50	93.432.2353.1	100	93.432.2653.1	100
			Type BST 14i3F S1 Z ¹⁾ other cable diameters available on request		Type BST 14i3F S1 R ²⁾ Panel material, deburring and coating thickness can influence cut-out dimensions. Detailed installation instructions available on request.		Type BST 14i3 L S1	

Distribution block

Distribution block

with locking device

with locking device

1 input
3 pole male connector
5 outputs
3 pole female connector

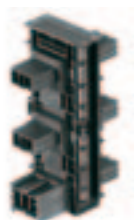
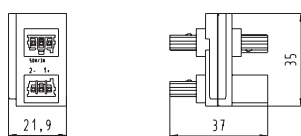
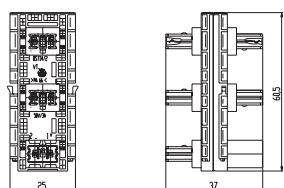
1 input
2 pole male connector
3 outputs
2 pole female connector

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

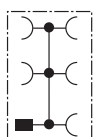


93.430.2053.1 50

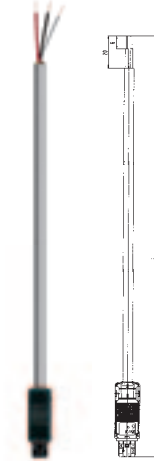
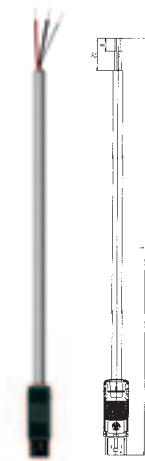
93.430.2453.1 50

BST 14i3V 5P1

BST 14i3V 3P1



BST 14i 3 pole 50 V, 3 A

			Extender lead		Starter lead		Connection lead		
			2 x 0.5 mm ² + screen (2 x 0.5 mm ² dia) female – male		2 x 0.5 mm ² + screen (2 x 0.5 mm ² dia) female – free end ³⁾		2 x 0.5 mm ² + screen (2 x 0.5 mm ² dia) male – free end ³⁾		
Cable assemblies Type FB-2Y (ST) 2 x (2 x 0.8) ^{2) 4)} Signal connector – denoted by a black contact area – with integrated latching device – grey cable									
									
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Bus and control signals 2 pole + screen	Female 1+/- /2- Male 2- /1+	black	1.0 m	94.435.1000.1	100	94.435.1003.1	100	94.435.1004.1	100
			2.0 m	94.435.2000.1	50	94.435.2003.1	50	94.435.2004.1	50
			3.0 m	94.435.3000.1	30	94.435.3003.1	50	94.435.3004.1	50
			4.0 m	94.435.4000.1	30	94.435.4003.1	30	94.435.4004.1	30
			5.0 m	94.435.5000.1	30	94.435.5003.1	30	94.435.5004.1	30
			6.0 m	94.435.6000.1	25	94.435.6003.1	25	94.435.6004.1	25
			7.0 m	94.435.7000.1	25	94.435.7003.1	25	94.435.7004.1	25
			8.0 m	94.435.8000.1	20	94.435.8003.1	20	94.435.8004.1	20

Sample set

for BST 14i3

Part No.	Box Qty
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Contents:

- Prefabricated cable
male – free end
94.435.XY04.1
Sample length

Spring-loaded female connector
93.431.2553.1

Flat cable
00.702.1022.3

Adapter BST 14i3
93.421.2953.1

Snap-in male connector
93.432.2353.1

Distribution block
93.420.2053.1

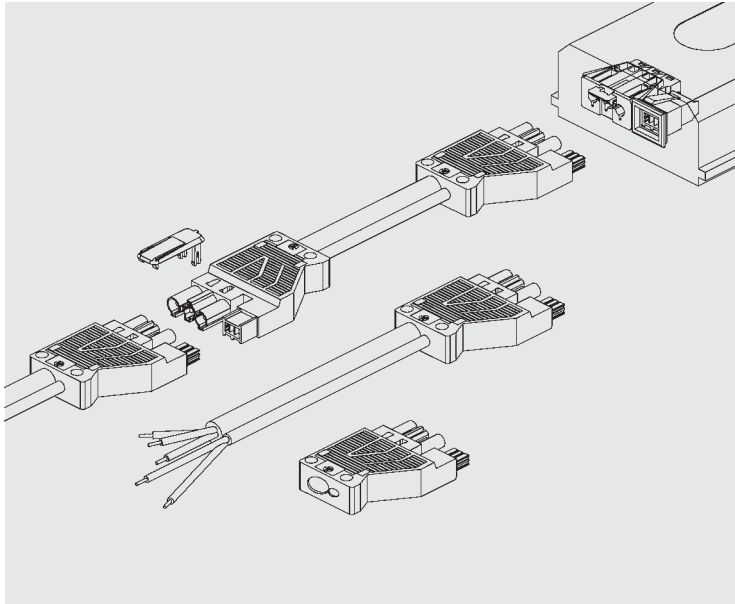
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EST 3i3

3 pole mains 2 pole signal + screen

Application example



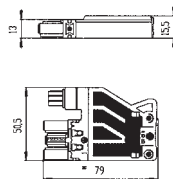
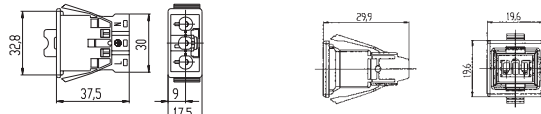
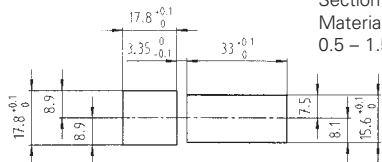
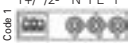
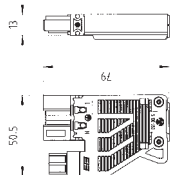
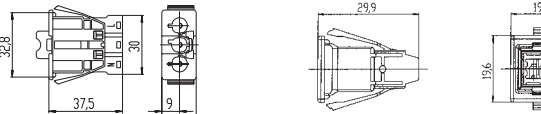
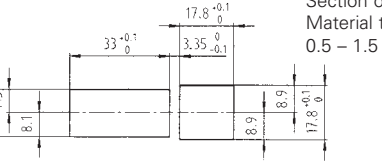
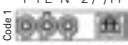
General

On the supply side, these connectors are designed with 3 poles and have the designation of L, N and PE. The connection component for the transfer of the bus or control signals is mounted in parallel. Mechanical coding means that only male and female connectors of the same code can be connected with the correct polarity. You therefore have the security that you cannot mistake these connectors for those of other applications and you thus have a clear segregation of different applications. The colour of the connectors indicate the relevant usage. All the colour combinations within a mechanical code can be connected together.

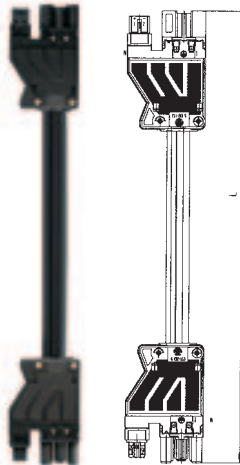
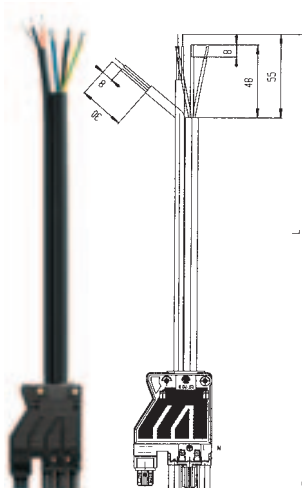
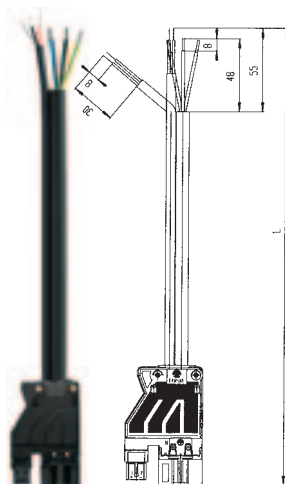
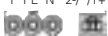
Coding

					Application	Combination mains 3 pole, bus/control signals 3 pole
					Mechanical coding	Code 1
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black	white
Connector	Compact connector	Spring/ Screw	yes	1		upon request
Snap in	For material thickness: 0.5-1.5 mm	Spring		1		
Solder conn.	90°	Solder pins		1		
Junction	Male conn. – free end	preassembled	preassembled	preassembled		
	Female conn. – free end					
Prefabricated cables	Male conn. – fem. conn.					

EST 3i 3 pole 50 V, 3 A – 3 pole 250 V, 16 A

Combination connector			Snap-in, spring loaded					
Combination connector for 3 pole mains and 3 pole control signals			Mains: 3 pole, GST18i3 coding screw connection 1.5 – 2.5 mm ² , single core/finely stranded Signal: 3 pole, BST 14i3 coding, spring loaded connection 0.25 – 0.75 mm ² single core/finely stranded, unassembled with strain relief, for twin cord cables LiYY, H05VV or NYM and data Ø 5.5 – 6.5 mm Sheath strip length Insulation strip length Mains: 48 mm 7 mm Signal: 30 mm 9 mm		Mains: panel mounting ¹⁾ , 2 screwless connections per pole, finely stranded cable 0.5 – 1.5 mm ² with ferrule ²⁾ , rigid cable 0.5 – 2.5 mm ² Bus: panel mounting for single and finely stranded cable 0.25 – 0.75 mm ² with locking device			
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector			 		  Section of housing Material thickness: 0.5 – 1.5 mm  			
Combination of 3 pole mains + 2 pole bus control signals + screen	1+/- /2- N PE 1 	black	93.511.2553.1	10	92.031.9658.1	100	93.431.2353.1	100
Type			EST 3i3FS B1 Z		GST 18i3F B2 R		BST 14i3F B1 R	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Male connector			 		  Section of housing Material thickness: 0.5 – 1.5 mm  			
Combination of 3 pole mains + 2 pole bus control signals + screen	1 PE N 2- /1+ 	black	93.512.2553.1	10	92.032.9658.1	100	93.432.2353.1	100
Type			EST 3i3FS S 1 Z		GST 18i3F S2 R		BST 14i3F S1 R	
Combination connectors will connect to individual components					¹⁾ Panel material, deburring and coating thickness can influence cut-out dimensions. Detailed installation instructions are available on request. ²⁾ See “Accessories” for ferrules and clamping tools			

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			Extender lead		Starter lead		Connection lead		
			female – male		female – free end with ferrules ⁴⁾		male – free end with ferrules ⁴⁾		
Cable assemblies with combination cable for mains and control signals cable: LiYY 3 x ... Twin cord for mains: 3 x 1.5 mm² finely stranded²⁾ Bus: 1 x 2 x 0.8 PIMF single core Type: LiYY...³⁾, Colour black									
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Combination of 3 pole mains + 2 pole bus/control signals + screen	Female 1+ / 2- N PE 1  Male 1 PE N 2- / 1+  Code 1	black	1.0 m	94.512.1000.1	30	94.512.1003.1	40	94.512.1004.1	40
			2.0 m	94.512.2000.1	20	94.512.2003.1	20	94.512.2004.1	20
			3.0 m	94.512.3000.1	15	94.512.3003.1	15	94.512.3004.1	15
			4.0 m	94.512.4000.1	10	94.512.4003.1	10	94.512.4004.1	10
			5.0 m	94.512.5000.1	10	94.512.5003.1	10	94.512.5004.1	10
			6.0 m	94.512.6000.1	8	94.512.6003.1	8	94.512.6004.1	8
			7.0 m	94.512.7000.1	6	94.512.7003.1	6	94.512.7004.1	6
			8.0 m	94.512.8000.1	5	94.512.8003.1	5	94.512.8004.1	5
Type			EST 3i3FKSBS		EST 3i3FKSB-		EST 3i3FKS-S		
			Rated voltage:		250 V		50 V		
			Rated current:		16 A		3 A		
			Wire range:		1.5 mm ²		0.5 mm ²		
			Number of poles:		3 pole		2 pole + screen		
			Cable:		e.g. twin cord LiYY..., Halogen-free available on request				

¹⁾ Other lengths available on request

²⁾ 2.5 mm² available on request

³⁾ Halogen-free version available on request

⁴⁾ Modification of the sheath/insulation strip lengths available on request

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¹⁾ Other lengths available on request

²⁾ 2.5 mm² available on request

³⁾ Halogen-free version available on request

⁴⁾ Modification of the sheath/insulation strip lengths available on request

EST 3i 3 pole 50 V, 3 A – 3 pole 250 V, 16 A

Sample set

For EST 3i3

Part No.	Box Qty
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Contents:

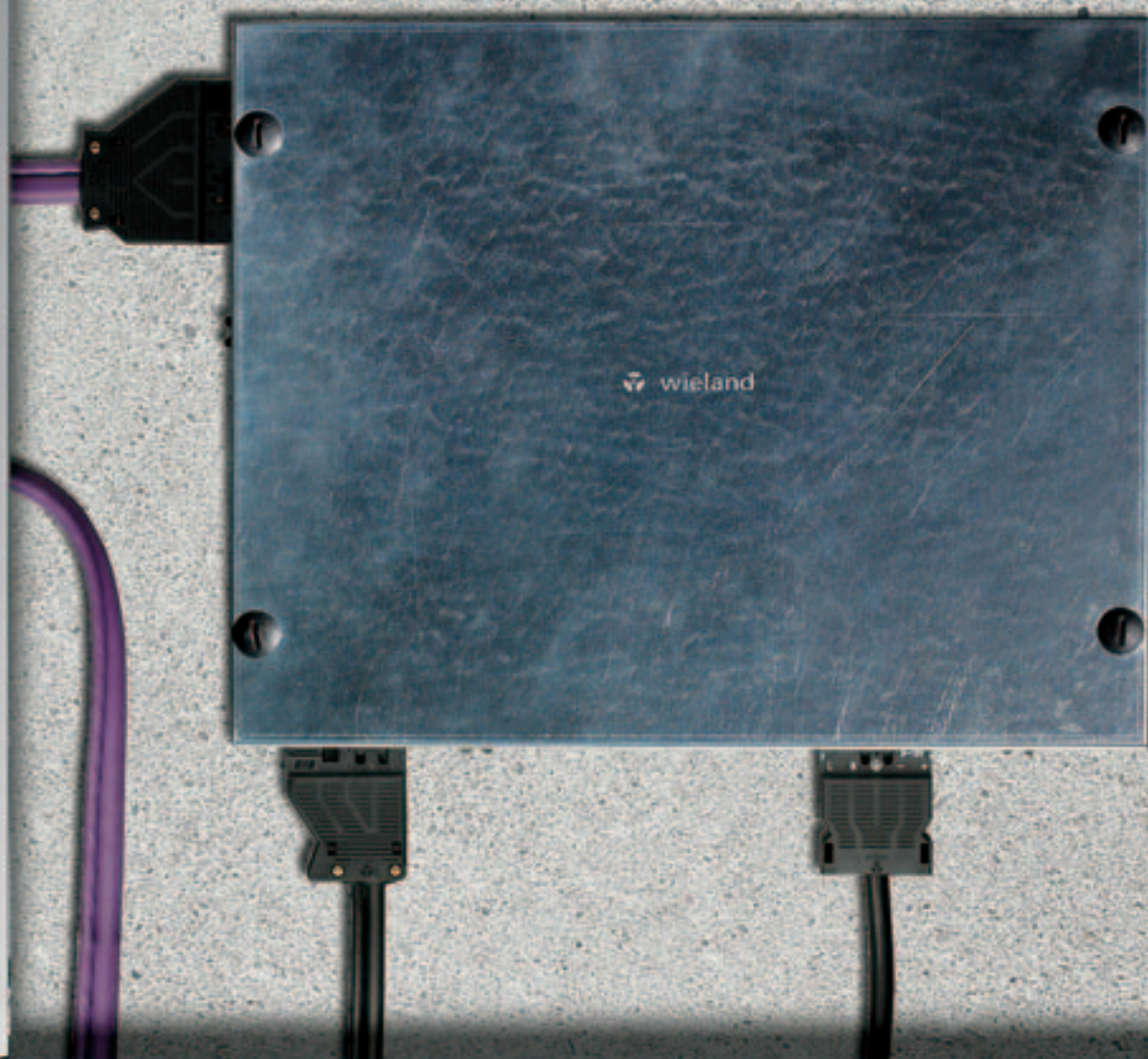
- Prefabricated cable
Male – free end
94.512.XY04.1
Sample length
- Combination female connector
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- BST 14i3 Snap-in male connector
93.432.2353.1
- GST 18i3 Snap-in male connector
92.032.9658.1

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EST 3i3

3 pole mains 2 pole signal + screen

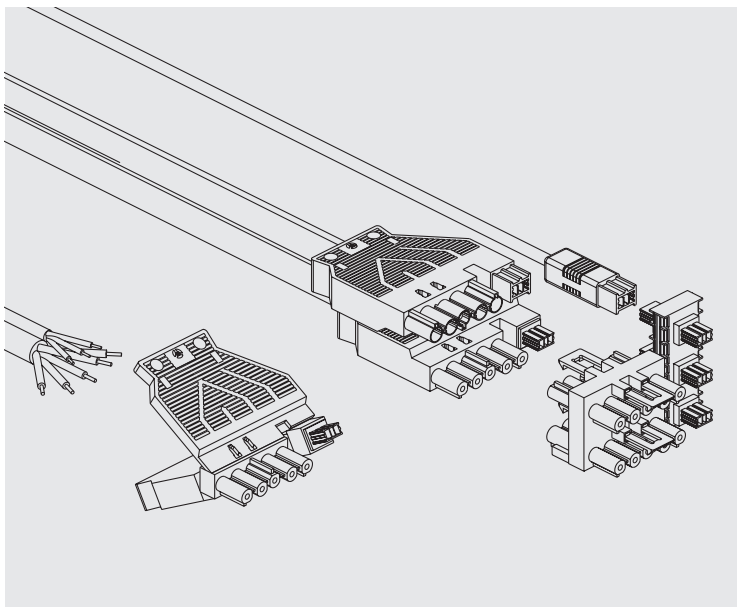




EST 3i5

5 pole mains 2 pole signal + screen

Application example



General

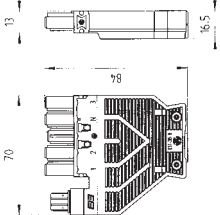
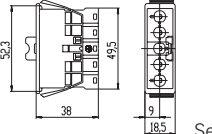
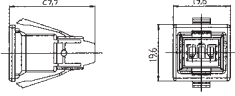
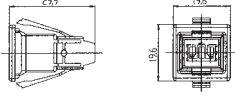
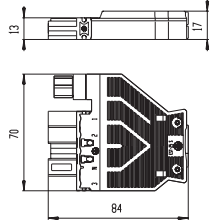
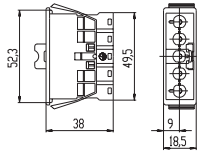
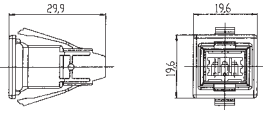
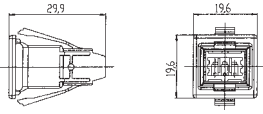
On the supply side, these connectors are designed with 5 poles and have the designation of 1, 2, PE, N, 3. The connection component for the transfer of bus/control signals is mounted in parallel. Mechanical coding means that only male and female connectors of the same code can be connected with the correct polarity. You therefore have the security that you cannot mistake these connectors for those of other applications and you thus have a clear segregation of different applications. The colour of the connectors indicates the relevant usage. All the colour combinations within a mechanical code can be connected together.



Coding

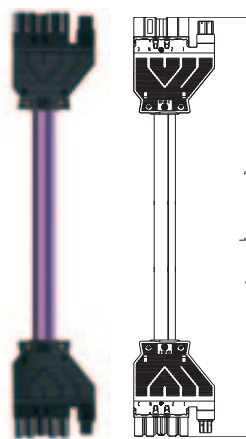
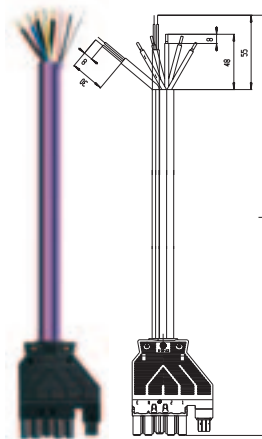
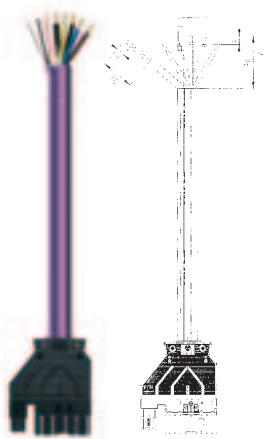
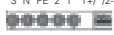
					Application	
					Combination mains 5 pole, bus/control signals 3 pole	
					Mechanical coding	
					Code 1	
Name	Description	Connection style	Strain relief housing	Conn. points per pole	black	white
Connector	Compact connector	Spring/ Screw		1		upon request
Snap in	For material thickness: 0.5-1.5 mm	Spring		1		
Solder conn.	90°	Solder pins		1		
Comb. junct.	1 input 3 outputs Mains 5 pole, 1 input 5 outputs Bus/control signals					
Prefabricated cables	Male conn. – free end	preassembled	preassembled	preassembled		
	Female conn. – free end					
	Male conn. – fem. conn.					

EST 3i5 3 pole 50 V, 3 A – 5 pole 250/400 V, 16 A

Combination connector			Snap-in, Spring loaded					
Combination connector for mains (5 pole) and control signals (3 pole)			Mains: 5 pole, GST18i5 coding screw connection 1.5 – 2.5 mm ² single core and finely stranded Signal: 3 pole, BST 14i3 coding. Spring loaded connection 0.25 – 0.75 mm ² single core and finely stranded, unassembled with strain relief for twin cord cables LiYY, H05VV or NYM and control cables Ø 5.5 – 6.5 mm Sheath strip length Insulation strip length Mains: 48 mm 7 mm Signal: 30 mm 9 mm		Mains: Panel mounting ¹⁾ , 3 pole, GST 18i3 coding 2 screwless , connections per pole, finely stranded cable 0.5 – 1.5 mm ² with ferrule ²⁾ , rigid cable 0.5 – 2.5 mm ² Signal: Panel mounting ¹⁾ , 3 pole, BST 14i3 coding, 1 connection per pole, for single core and finely stranded cables 0.25 – 0.75 mm			
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Female connector			Female connector		Female connector		Female connector	
								
								
Combination 5 pole mains + 2 pole bus/control signals + screen		black	93.561.2553.1	50	92.051.9658.1	100	93.431.2353.1	100
Type			EST 3i5FS B1 Z		GST 18i5F B2 R		BST 14i3F B1 R	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Male connector			Male connector		Male connector		Male connector	
								
								
Combination of 5 pole mains 2 pole bus/control signals + screen		black	93.562.2553.1	50	92.052.9658.1	100	93.432.2353.1	100
Type			EST 3i5FS S1 Z		GST 18i5F S2 R		BST 14i3F S1 R	
Combination connectors will connect to individual components			¹⁾ Panel material, deburring and coating thickness can influence cut-out dimension. Detailed installation instructions are available on request. ²⁾ See “Accessories” for ferrules and clamping tools					

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¹⁾ Panel material, deburring and coating thickness can influence cut-out dimension. Detailed installation instructions are available on request.
²⁾ See "Accessories" for ferrules and clamping tools

			Extender lead		Starter lead		Connection lead		
			female – male		female – free end with ferrules ³⁾		male – free end with ferrules ³⁾		
Cable assemblies with combination cable for mains and control signals twin cord for mains: 5 x 2.5 mm² finely stranded control signal: 1 x 2 x 0.8 PIMF single core Type: LiYY³⁾, Colour: purple									
Application	Coding	Colour	Length ⁴⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Combination 5 pole mains 2 pole bus/control signals + screen	Female 3 N PE 2 1 1+ / I2-  Male 2 / I1+ 1 2 PE N 3 	black	1.0 m	94.563.1000.1	20	94.563.1003.1	20	94.563.1004.1	20
			2.0 m	94.563.2000.1	10	94.563.2003.1	10	94.563.2004.1	20
			3.0 m	94.563.3000.1	8	94.563.3003.1	8	94.563.3004.1	8
			4.0 m	94.563.4000.1	5	94.563.4003.1	5	94.563.4004.1	5
			5.0 m	94.563.5000.1	5	94.563.5003.1	5	94.563.5004.1	5
			6.0 m	94.563.6000.1	4	94.563.6003.1	4	94.563.6004.1	4
			7.0 m	94.563.7000.1	4	94.563.7003.1	4	94.563.7004.1	4
			8.0 m	94.563.8000.1	3	94.563.8003.1	3	94.563.8004.1	3
			Type	EST 3i5FKSBS		EST 3i5FKSB-		EST 3i5FKS-S	
				Rated voltage: Rated current: Wire range: Number of poles: Cable:		Mains 250/400 V 16 A 2.5 mm ² 5 pole e.g. Twin cord LiYY..., Halogen-free available on request		Signal 50 V 3 A 0.5 mm ² 2 pole + screen	

³⁾ Halogen free version available
⁴⁾ other lengths available on request
⁵⁾ modification of the sheath/insulation strip
lengths available on request

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³⁾ Halogen free version available

⁴⁾ other lengths available on request

⁵⁾ modification of the sheath/insulation strip
lengths available on request



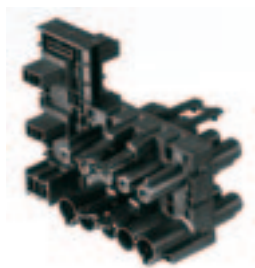
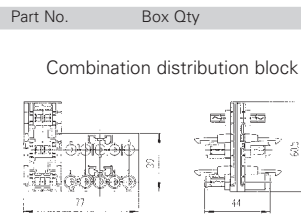
EST 3i5 3 pole 50 V, 3 A – 5 pole 250/400 V, 16 A

Combination distribution block

with integrated locking device

Mains: 5 pole, GST 18i5 coding,
1 Incoming (Male connector),
3 Outgoing (Female connector)

Signal: 3 pole, BST 14i3 coding,
1 Incoming (Male connector),
5 Outgoing (Female connector)



93.560.2053.1

Fixing option with plate
07.413.5553.1

Type EST 3i5V 8B2

Sample set

for EST 3i5

Part No. Box Qty



Contents:

Prefabricated cable,
Male - free end
94.563.XY04.7
Sample length

Combination connector
female connector
93.561.2553.1

BST 14i3 Snap-in male connector
93.432.2353.1

GST 18i5 Snap-in male connector
92.052.9658.1

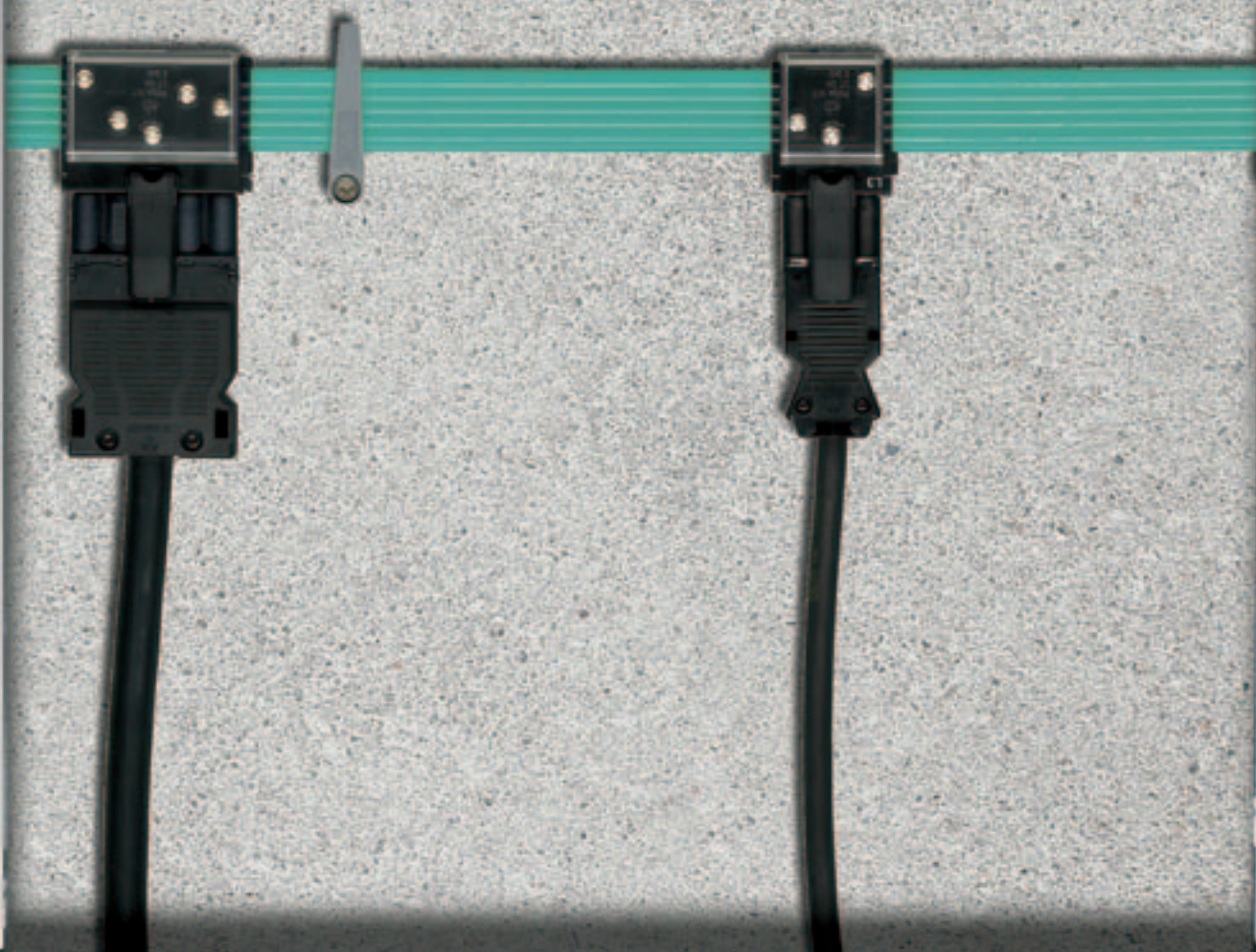
99.476.0000.0 1

EST 3i5

5 pole mains 2 pole signal + screen



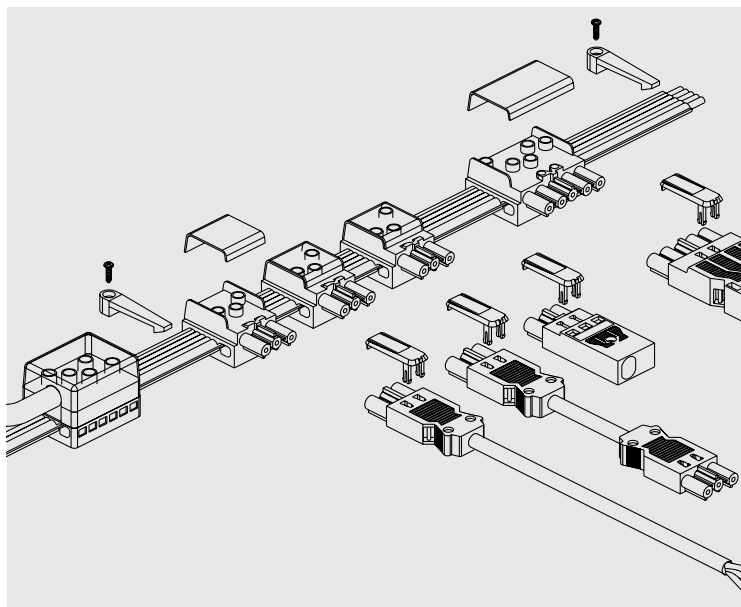
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Flat cable system 5 pole

5 pole mains

Application example



General

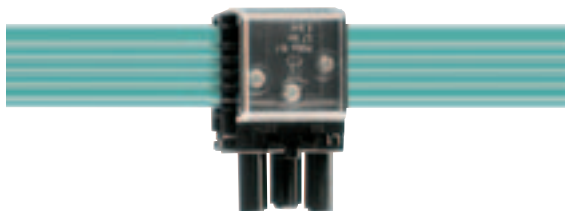
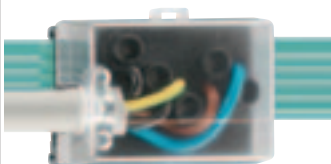
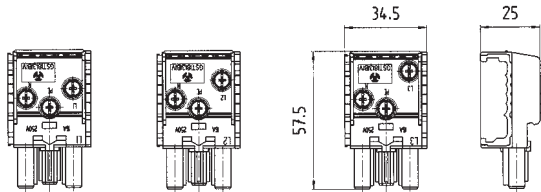
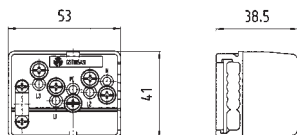
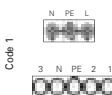
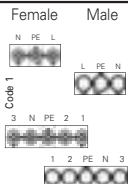
With the option of the flat cable system, you can enjoy all the benefits of a modern electrical installation. Once the flat cable has been installed, you can quickly and reliably place branch circuits exactly where they are required, without re-terminating the cable. Conversions or extensions can thus be carried out both rapidly and economically. There are three versions of the flat cable adapter all using the same insulation piercing technique. One incoming supply adapter for feeding the flat cable as well as outgoing adapter available in both 5 and 3 pole variants. Further connection to the load is carried out using standard connectors from the selected range. All the connectors are mechanically coded which means that only associated pairs of male and female connectors within a product range that have the same code can be connected with the correct polarity. You therefore have the security of a clear segregation of different applications without having to redo any incorrect connections.

Coding

Name	Description	Further connection with components of series	Connection style	Strain relief housing	Conn. points per pole	Mechanical coding	Colour
Flat cable	Mains: 5 x 2.5 mm ² PVC		Insulation piercing				light green
	Mains: 5 x 2.5 mm ² halogen-free						light green with "FR/LSOH"
Supply Mains 5 pole	For wire diameters of 5-13 mm		Screw	yes	1		
Output Mains 5 pole	Flat cable adapter with output, horizontal to line	GST 18i5	preassembled with female connector			Code 1 	black
Output Mains 3 pole	Flat cable adapter with output, horizontal to line. Optional tapping of the outer conductor L1, L2 oder L3	GST 18i3				Code 1 	

Incoming supply for mains

Flat cable adapter for mains

			5 pole with insulation piercing technology for supplying the phases, N and earth. For the connection of round cables 5 x 2.5 mm ² using a screw connection. Strain relief for cable diameter 5–13 mm, shrouding cover with round cable outlet on one side. See “Technical data” for installation instructions.		3 pole with insulation piercing technology for tapping phase N and earth. Outgoing unit with female connector, GST 18i3 coding, at right angles to cable entry. Locking device should be used See “Technical data” for installation instructions.	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty
			for 250/400 V   Select the phase conductor			
Mains with earth	Code 1 	black	92.050.8153.0	20	L1 92.031.5153.1 50 Type GST 18i3/1 B1 V F5 ...1 L2 92.031.5253.1 50 Type GST 18i3/1 B1 V F5 ...2 L3 92.031.5353.1 50 Type GST 18i3/1 B1 V F5 ...3	
Type GST 18i5 AS/F5						
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty
			Extension cable GST 18i3 3 x 1.5 mm² male – female  Connection cable GST 18i3 3 x 1.5 mm² male – free end  The complete range can be found under GST 18i3			
Mains with earth	Female Male Code 1 	black		1.0 m 92.232.1000.1 75 2.0 m 92.232.2000.1 40 3.0 m 92.232.3000.1 25 4.0 m 92.232.4000.1 25 5.0 m 92.232.5000.1 20 6.0 m 92.232.6000.1 10 7.0 m 92.232.7000.1 10 8.0 m 92.232.8000.1 10		92.232.1004.1 75 92.232.2004.1 50 92.232.3004.1 25 92.232.4004.1 25 92.232.5004.1 20 92.232.6004.1 10 92.232.7004.1 10 92.232.8004.1 10
			Type	GST 18i3 K1BS 1,5		GST 18i3 K1-S 1,5



Flat cable system 5 pole

5 pole mains

Flat cable adapter GST 18i5

5 pole

with insulation piercing technology for tapping off the phases, N and earth.
Outgoing unit with female connector, GST 18i5 coding, at right angles to cable entry.
Locking device should be used

See "Technical data" for installation instructions.

Part No. Box Qty

Cable clip

for flat cable

Part No. Box Qty

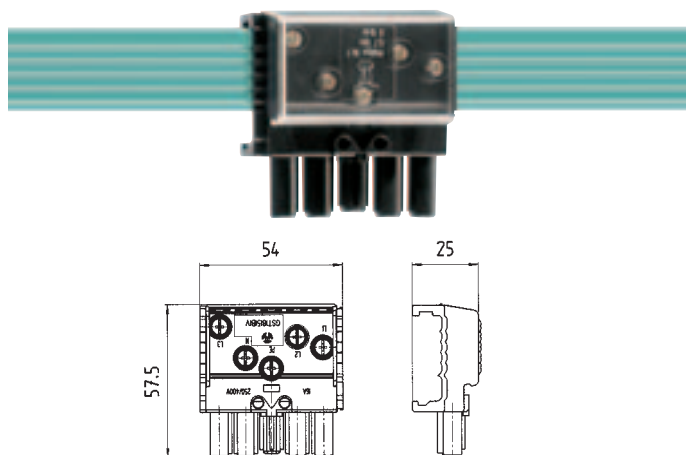
Cable end cap

Guarantees safety clearances between the individual cores, must be mounted at the start and end of each cable.
The sheath must be stripped from the cable (15 mm).

See next page for sheath stripping tool.

Part No. Box Qty

Further connection with components of the GST 18i5 range



92.051.0553.1 50

05.562.3000.0 100

05.563.4700.0 20

Type GST 18i5I B1 V F5

Part No. Box Qty Part No. Box Qty

Extension cable GST 18i5

5 x 2.5 mm²
female – male



Connection cable GST 18i5

5 x 2.5 mm²
male – free end



The complete range can be found under GST 18i5

Locking device

for latching into position

(VDE 0628 requires the use of a locking device)



1.0 m	92.258.1000.1	30	92.258.1004.1	30
2.0 m	92.258.2000.1	20	92.258.2004.1	20
3.0 m	92.258.3000.1	15	92.258.3004.1	15
4.0 m	92.258.4000.1	10	92.258.4004.1	10
5.0 m	92.258.5000.1	8	92.258.5004.1	8
6.0 m	92.258.6000.1	5	92.258.6004.1	5
7.0 m	92.258.7000.1	5	92.258.7004.1	5
8.0 m	92.258.8000.1	5	92.258.8004.1	5

05.587.3156.1 50

Type GST 18i5 K1BS 2,5

GST 18i5 K1-S 2,5

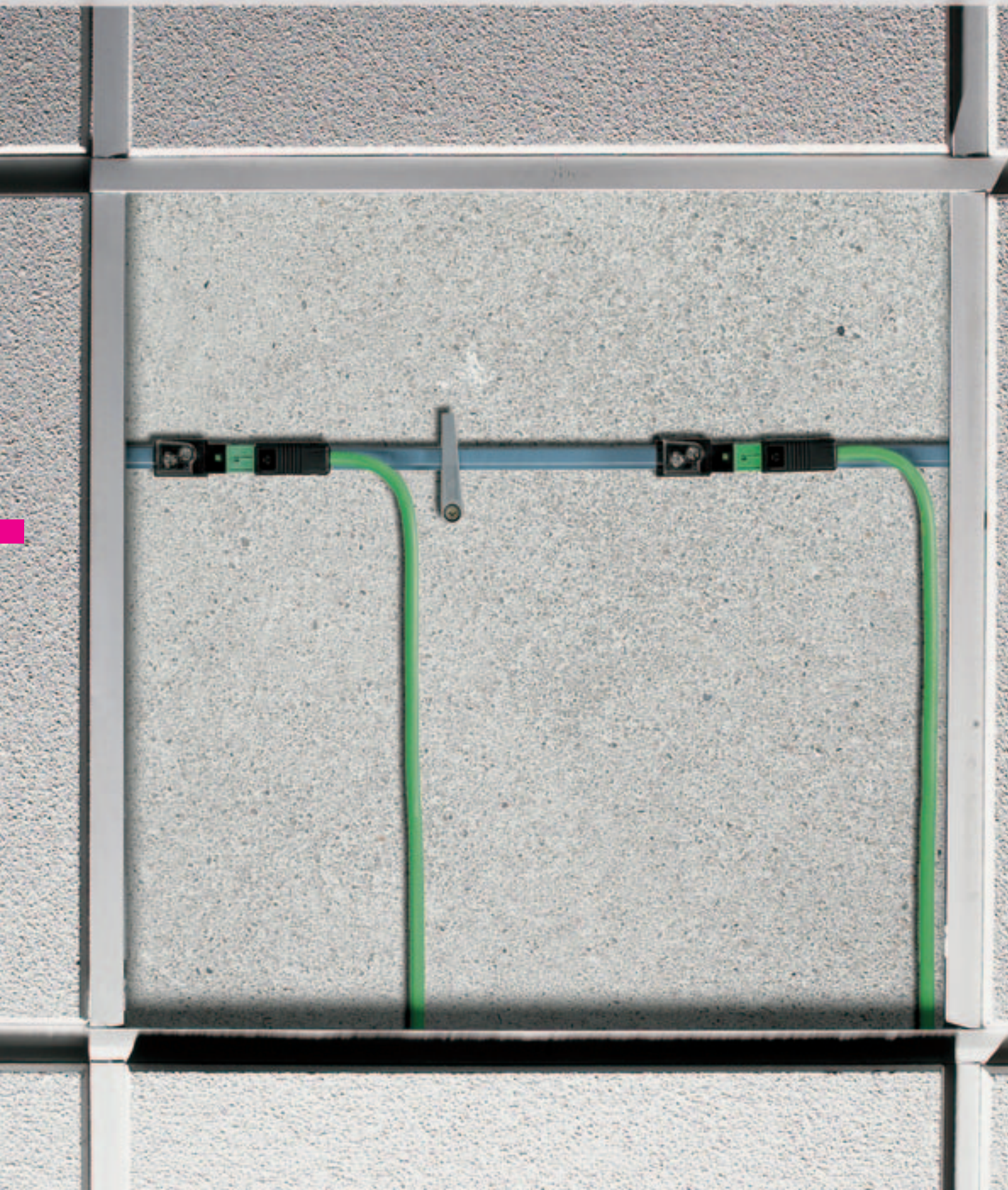
Flat cable		Flat cable		Sheath stripping tool	
PVC , for mains: 5 x 2.5 mm² Colour: light green, insulating material: PVC See "Technical Data"		halogen free , for mains: 5 x 2.5 mm² Colour: light green with markings "LSOH" Insulating material: thermoplastic See "Technical Data"		for stripping the sheath from flat cables	
Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
					
Warranties on all parts apply only where original cable as specified in this catalogue is used		Warranties on all parts apply only where original cable as specified in this catalogue is used			
00.702.0303.7 Please indicate the length required (max. 350 m)		00.709.0303.7 Please indicate the length required (max. 350 m)		95.350.0200.0 1	

Flat cable system 5 pole

5 pole mains



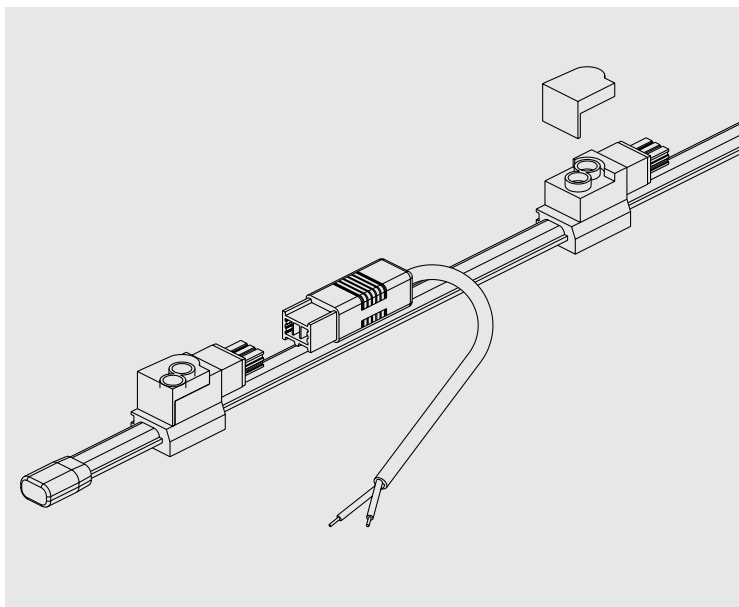
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Flat cable system 2 pole

2 pole EIB Bus/control signals

Application example



General

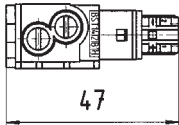
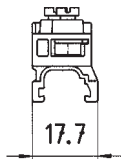
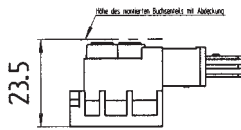
With the option of the flat cable system, you can enjoy all the benefits of a modern electrical installation. Once the flat cable has been installed, you can quickly and reliably place branch circuits exactly where they are required, without re-terminating the cable. Conversions or extensions can thus be carried out both rapidly and economically. The plug-in flat cable adapters can be used as an incoming supply or as an outgoing unit and are available with three different mechanical codes. Further connection to the load is carried out using connectors from the selected range and coding. Mechanical coding means that only associated pairs of male and female connectors with the same code can be connected with the correct polarity. You therefore have the security of a clear segregation of different applications without having to redo any incorrect connections. The colour of the connectors indicates the relevant usage.

Coding

Name	Description	Further connections with components of series	Connection style	Strain relief housing	Connection points per pole	Application	Mechanical coding	Colour
Flat cable	Bus: 2 x 1.5 mm ² screen, PVC Bus: 2 x 1.5 mm ² screen, halogen-free		insulation piercing					grey grey with „FR/LSOH“
Output/Supply EIB 2 pole	Flat cable adapter with output, horizontal to line	BST 14i2		preassembled with female connector		EIB signals	Code 1 	green
Output/Supply Dimming 2 pole						Dimming	Code 2 	pastel blue (upon request)
Output/Supply Bus/control signals 2 pole		BST 14i3				Bus and control signals	Code 3 	black



Flat cable adapter BST 14i2 for EIB Bus 2 pole

			With insulation piercing technology for tapping off the 2 pole EIB Bus signal. Outgoing unit or incoming supply with BST 14i2 female connector parallel to the cable.				
Application Coding Colour			Part No. Box Qty				
			Further connection with components of the BST 14i2 range				
			 				
EIB Bus	Code 1 	green	93.421.0953.0	50			
Type			BST 14i2I B1 H				
Application Coding Colour			Part No. Box Qty		Part No. Box Qty		
			Extension cable BST 14i2 2 x 0.5 mm ² male – female		Connection cable BST 14i2 2 x 0.5 mm ² male – free end		
							
			The complete range can be found under BST 14i2				
EIB Bus	Code 1 Female 1+ / 2-  Male 2- / 1+ 	green	1.0 m 2.0 m 3.0 m 4.0 m 5.0 m 6.0 m 7.0 m 8.0 m	94.425.1000.7 94.425.2000.7 94.425.3000.7 94.425.4000.7 94.425.5000.7 94.425.6000.7 94.425.7000.7 94.425.8000.7	100 50 30 30 30 25 25 20	94.425.1004.7 94.425.2004.7 94.425.3004.7 94.425.4004.7 94.425.5004.7 94.425.6004.7 94.425.7004.7 94.425.8004.7	100 50 30 30 30 25 25 20
Type			BST 14i2KF BS		BST 14i2KF-S		



Flat cable system 2 pole

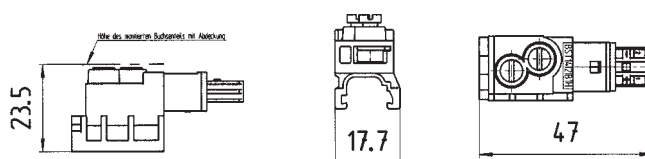
2 pole EIB Bus/control signal

Flat cable adapter BST 14i3 for control signal

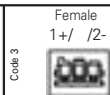
with insulation piercing technology for tapping off 2 pole control signals.
A connection for the screen is not provided.
The third pole of the connector thus remains free.
Outgoing unit or incoming supply with female connector, BST 14i3 coding, parallel to the cable entry.

Application	Coding	Colour	Part No.	Box Qty
-------------	--------	--------	----------	---------

Further connection with components of the **BST 14i3** range



Control signal



black

93.421.2953.1 50

Type BST 14i2I B1 H

Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty
-------------	--------	--------	----------	---------	----------	---------

Extension cable BST 14i3

3 x 0.5 mm²
male – female



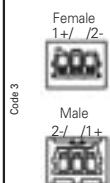
Connection cable BST 14i3

3 x 0.5 mm²
male – free end



The complete range can be found under **BST 14i3**

Control signal



black

1.0 m	94.435.1000.1	100
2.0 m	94.435.2000.1	50
3.0 m	94.435.3000.1	30
4.0 m	94.435.4000.1	30
5.0 m	94.435.5000.1	30
6.0 m	94.435.6000.1	25
7.0 m	94.435.7000.1	25
8.0 m	94.435.8000.1	20

94.435.1004.1	100
94.435.2004.1	50
94.435.3004.1	50
94.435.4004.1	30
94.435.5004.1	30
94.435.6004.1	25
94.435.7004.1	25
94.435.8004.1	20

Type BST 14i3KF BS

BST 14i3KF-S

BST 14i 50 V, 3A

Flat cable		Flat cable		Cable clip		Cable end cap	
PVC, for bus: 2 x 1.5 mm² Twin screening (complies with EIB specification), colour grey, insulating material: PVC See "Technical Data"		halogen free, for bus: 2 x 1.5 mm² twin screening (complies with EIB specification) Colour: light green with markings "LSOH" Insulating material: thermoplastic See "Technical Data"		for flat cable		Must be mounted at the start and end of each cable	
Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
							
Warranties on all parts apply only where original cable as specified in this catalogue is used		Warranties on all parts apply only where original cable as specified in this catalogue is used					
00.702.1022.3		00.709.1022.3		05.562.3000.0 100		05.562.4400.0 20	

Flat cable system 2 pole

2 pole EIB Bus/control signal

Sample set (EIB)

For BST 14i2

Sample set

For BST 14i3

Part No. Box Qty

Part No. Box Qty



Contents:

Prefabricated cable
male – free end
94.425.XY04.7
Sample length

Spring loaded female connector
93.421.0553.1

Snap-in male connector
93.422.0353.1

Flat cable
00.702.1022.7

Adapter BST 14i2
93.421.0953.0

Distribution block
93.420.0053.0

99.471.0000.0 1



Contents:

Prefabricated cable
male – free end
94.435.XY04.1
Sample length

Spring loaded female connector
93.431.2553.1

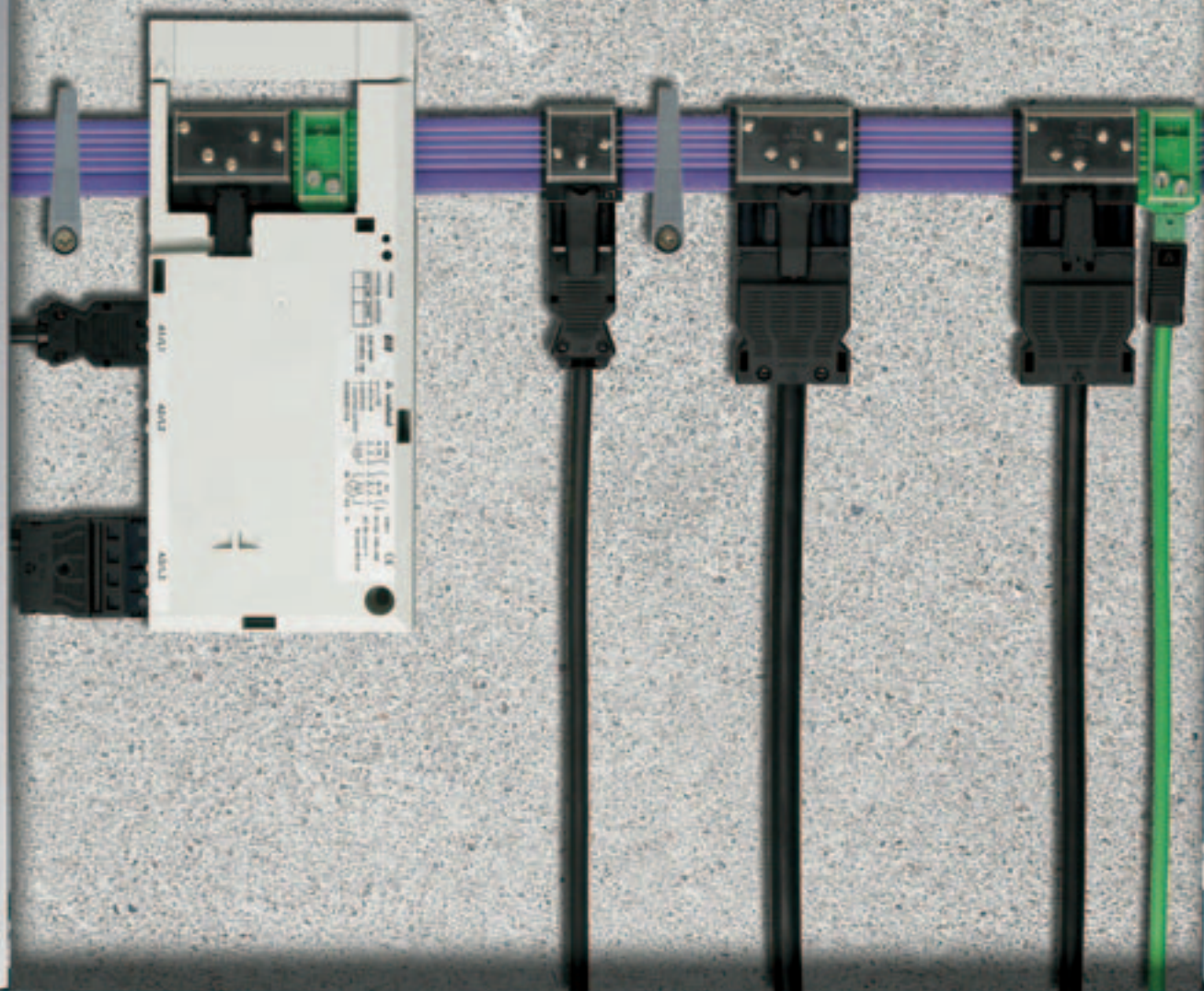
Flat cable
00.702.1022.7

Adapter BST 14i3
93.421.2953.1

Snap-in male connector
93.432.2353.1

Distribution block
93.420.2053.1

99.472.0000.0 1



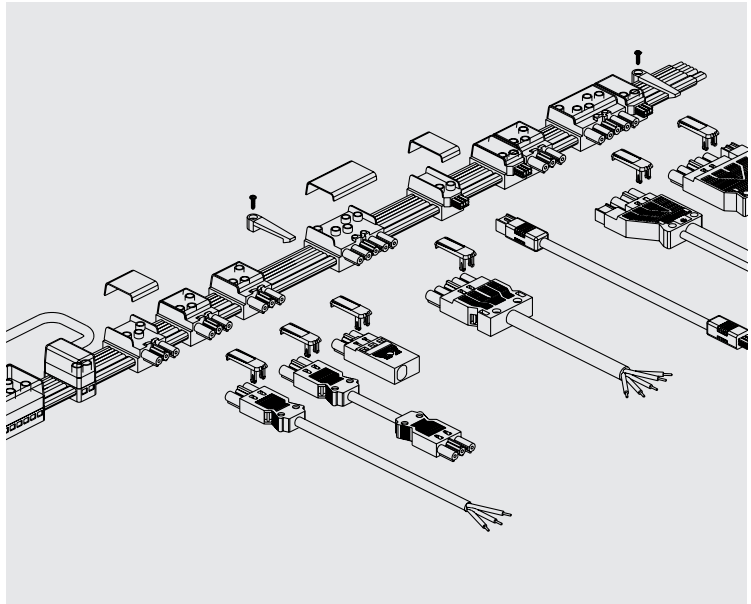
Flat cable system 7 pole

5 pole mains 2 pole EIB Bus/control signals

General

With the option of the flat cable system, you can enjoy all the benefits of a modern electrical installation. Once the flat cable has been installed, you can quickly and reliably place branch circuits exactly where they are required, without re-terminating the cable. Conversions or extensions can thus be carried out both rapidly and economically. The 5 and 2 pole flat cable unites the main power supply and the signal component in one combined cable. This has proved to be extremely beneficial in many applications since only one cable needs to be laid. There are separate incoming adapters for the mains or signal component. These adapters enable the flat cable to be supplied via a screw connection. The insulation piercing technology flat cable adapters serve as an outgoing unit and thus represent the transition to the selected product range. Depending on the requirements, it is possible to choose between the following ranges: GST 18i3 (3 pole mains, L1, L2, L3), GST 18i5 (5 pole mains), BST 14i2/3 (EIB Bus/control signals) or the combination connector EST (mains + bus/control signal). Further connection to the load is carried out using connec-

Application example

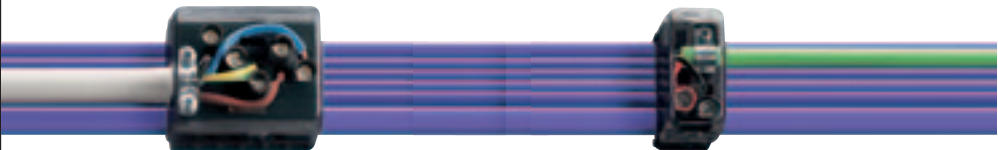
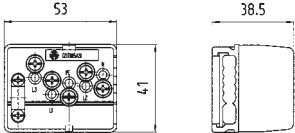
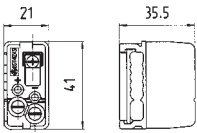


tors from the selected range and coding. Mechanical coding means that only male and female connectors within a product range that have the same code can be connected with the correct polarity. You therefore have the security of a clear segregation of different applications without having to redo any incorrect connections.

Coding

Name	Description	Further connections with components of series	Connection style	Strain relief housing	Connection points per pole	Mechanical coding	Colour
Flat cable	Mains: 5 x 2.5 mm ² Bus: 2 x 1.5 mm ² screened, PVC Mains: 5 x 2.5 mm ² Bus: 2 x 1.5 mm ² screened, halogen-free		insulation piercing				purple purple with „FR/LSOH“
Supply mains 5 pole	for wire diameters von 5-13 mm		Screw	yes	1		
Supply bus/control signals 2 pole	for wire diameters von 3-8 mm		Screw	yes	1		
Output mains 5 pole	(can be combined with output BST)	GST 18i5 (EST 2i5, EST 3i5)	preassembled with female connector			Code 1 	black
Output mains 3 pole	Versions L1, L2, L3 (can be combined with output BST)	GST 18i3 (EST 2i3, EST 3i3)				Code 1 	
Output EIB 2 pole	(can be combined with output GST)	BST 14i2				Code 1 	green
Output bus/control signals 2 pole	(can be combined with output GST)	BST 14i3				Code 3 	black

GST 18i 3 pole 250 V, 16 A – GST 18i 5 pole 250/400 V 16 A

Incoming supply			Incoming supply		Incoming supply	
			for 5 pole mains With insulation piercing technology for supplying the phases, N and earth. For the connection of round cables 5 x 2.5 mm ² using a screw connection. Strain relief for cable diameter: 5–13 mm, shrouding cover with round cable outlet on one side. See "Technical Data" for installation instructions.		for 2 pole bus/control signals With insulation piercing technology for supplying the signals. For the connection of round cables 2 x 1.5 mm ² using a screw connection. Strain relief for cable diameter of: 3–8 mm, shrouding cover with round cable outlet on one side. See "Technical Data" for installation instructions.	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty
			for 250/400 V   			
Mains with earth	Code 1 	black	92.050.8053.0	20	93.420.1053.0	20
Type			GST 18i5 ASI F7		BST 14i2 ASI	
Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty
			Locking device for latching into position (VDE 0628 requires the use of a locking device) 			
Mains with earth	Female  Male 	black			05.587.3156.1	50

GST 18i3

GST 18i5

Flat cable system 7 pole

Flat cable adapter GST 18i3

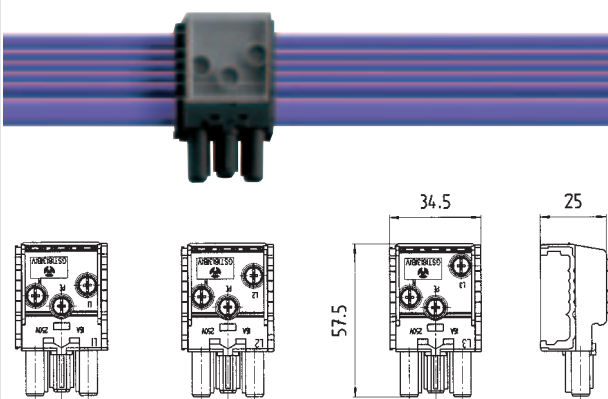
for 3 pole mains

With insulation piercing technology for tapping off the phase N and PE.
Outgoing unit with female connector GST 18i3 coding, at right angles to cable entry.
Locking device should be used.

See "Technical Data" for installation instructions.

Part No. Box Qty

Further connection with components of the GST 18i3 range



select the phase conductor

L1	92.031.4153.1	50	Type GST 18i3I B1 V F7 ...1
L2	92.031.4253.1	50	Type GST 18i3I B1 V F7 ...2
L3	92.031.4353.1	50	Type GST 18i3I B1 V F7 ...3

Part No. Box Qty Part No. Box Qty

Extension cable GST 18i3

3 x 1.5 mm²
male – female



Connection cable GST 18i3

3 x 1.5 mm²
male – free end



The complete range can be found under **GST 18i3**

1.0 m	92.232.1000.1	75	92.232.1004.1	75
2.0 m	92.232.2000.1	40	92.232.2004.1	50
3.0 m	92.232.3000.1	25	92.232.3004.1	25
4.0 m	92.232.4000.1	25	92.232.4004.1	25
5.0 m	92.232.5000.1	20	92.232.5004.1	20
6.0 m	92.232.6000.1	10	92.232.6004.1	10
7.0 m	92.232.7000.1	10	92.232.7004.1	10
8.0 m	92.232.8000.1	10	92.232.8004.1	10

Type GST 18i3 K1BS 1,5

GST 18i3 K1-S 1,5

Flat cable adapter GST 18i5

5 pole mains 2 pole EIB Bus/control signals

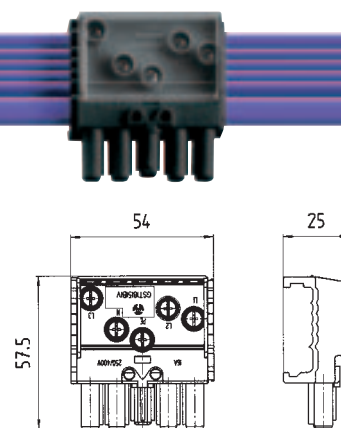
for 5 pole mains

With insulation piercing technology for tapping off the phases, N and PE.
Outgoing unit with female connector, GST 18i5 coding, at right angles to cable entry.
Locking device should be used.

See "Technical Data" for installation instructions.

Part No. Box Qty

Further connection with components of the GST 18i5 range



92.051.0353.1 50 Type GST 18i5I B1 V F7

Part No. Box Qty Part No. Box Qty

Extension cable GST 18i5

5 x 2.5 mm²
male – female



Connection cable GST 18i5

5 x 2.5 mm²
male – free end



The complete range can be found under **GST 18i5**

92.258.1000.1	30	92.258.1004.1	30
92.258.2000.1	20	92.258.2004.1	20
92.258.3000.1	15	92.258.3004.1	15
92.258.4000.1	10	92.258.4004.1	10
92.258.5000.1	8	92.258.5004.1	8
92.258.6000.1	5	92.258.6004.1	5
92.258.7000.1	5	92.258.7004.1	5
92.258.8000.1	5	92.258.8004.1	5

GST 18i5 K1BS 2,5

GST 18i5 K1-S 2,5

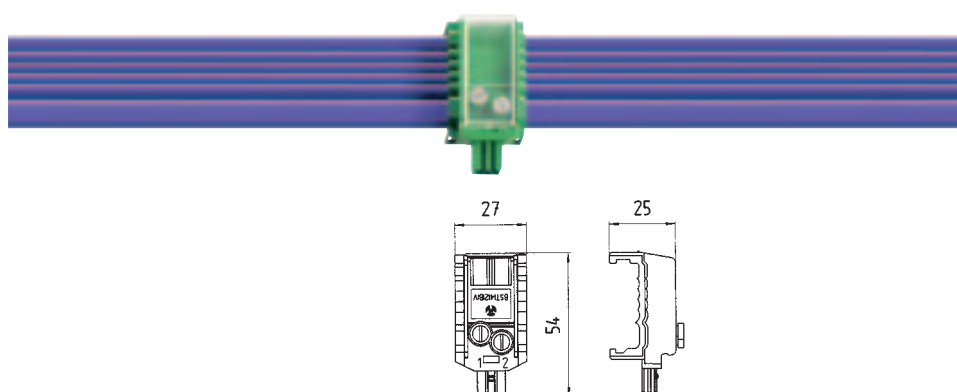


BST 14i 2 pole 50 V, 3 A – GST 18i 3 pole 250 V, 16 A – GST 18i 5 pole 250/400 V, 16 A

Flat cable adapter BST 14i2

					for EIB Bus 2 pole with insulation piercing technology for tapping off the 2 pole EIB Bus signal. Outgoing unit with connector BST 14i2 female connector at right angles to cable entry. See "Technical Data" for installation instructions.
Application	Coding	Colour	Part No.	Box Qty	Part No. Box Qty

Further connection with components of the **BST 14i2** range



EIB Bus 2 pole	1+ / 2-	green	93.421.0853.0 50 Type BST 14i2I B1 V		
Combination Mains 3 pole EIB Bus 2 pole	1+ / 2- N PE 1	black/green			
Combination 5 pole mains EIB Bus 2 pole	3 N PE 2 1 1+ / 2-	black/green			

Application	Coding	Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
other lengths available on request Halogen-free available on request Modification of the sheath/insulation strip lengths available on request			Locking device for latching into position for EST 2i3, EST 2i5 (VDE 0628 requires the use of a locking device)		Extension cable BST 14i2 2 x 0.5 mm² female – male		Connection cable BST 14i2 2 x 0.5 mm² male – free end	
								
			05.587.3156.1 50		The complete range can be found under BST 14i2			

EIB Bus 2 pole		green			1.0 m	94.425.1000.7	100	94.425.1004.7	100
Combination Mains 3 pole EIB Bus 2 pole		black/green			2.0 m	94.425.2000.7	50	94.425.2004.7	50
					3.0 m	94.425.3000.7	30	94.425.3004.7	30
					4.0 m	94.425.4000.7	30	94.425.4004.7	30
					5.0 m	94.425.5000.7	30	94.425.5004.7	30
Combination Mains 5 pole EIB Bus 2 pole		black/green			6.0 m	94.425.6000.7	25	94.425.6004.7	25
					7.0 m	94.425.7000.7	25	94.425.7004.7	25
					8.0 m	94.425.8000.7	20	94.425.8004.7	20

			Type	BST 14i2KF BS	BST 14i2KF-S
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EST 2i3

EST 2i5

Flat cable system 7 pole

Flat cable adapter EST 2i3

Mains 3 pole and BST 14i2 EIB Bus 2 pole

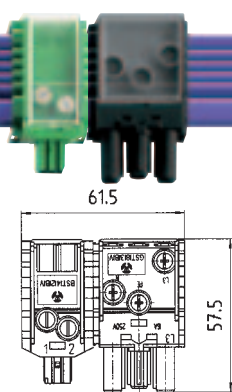
with insulation piercing technology for tapping off the 2 pole EIB Bus can be combined from single adapters (latched) and mounted individually. Outgoing unit with female connectors.

GST 18i3 and BST 14i2 or EST 2i3 coding at right angles to cable entry. Locking device should be used.

See "Technical Data" for installation instructions.

Part No. Box Qty

Further connection with components of the EST 2i3 range



Select the phase conductor

Separate order numbers

L1	92.031.4153.1	50	Type GST 18i3l B1 V F7 ...1
EIB	93.421.0853.0	50	Type BST 14i2l B1 V
L2	92.031.4253.1	50	Type GST 18i3l B1 V F7 ...2
EIB	93.421.0853.0	50	Type BST 14i2l B1 V
L3	92.031.4353.1	50	Type GST 18i3l B1 V F7 ...3
EIB	93.421.0853.0	50	Type BST 14i2l B1 V

Flat cable adapter EST 2i5

5 pole mains 2 pole EIB Bus/control signals

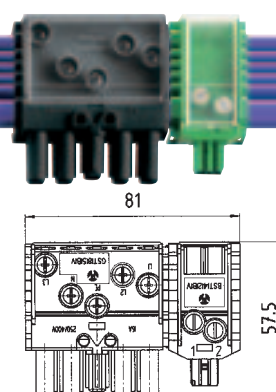
for 5 pole mains and BST 14i2 EIB Bus 2 pole

with insulation piercing technology for tapping off the mains and EIB bus. Can be combined from single adapter (latched) and mounted individually. Outgoing unit with female connector, GST 18i5 and BST 14i2 or EST 2i5 coding at right angles to cable entry. Locking device should be used.

See "Technical Data" for installation instructions.

Part No. Box Qty

Further connection with components of the EST 2i5 range



Separate order numbers

92.051.0353.1	50	Type GST 18i5l B1 V F7
93.421.0853.0	50	Type BST 14i2l B1 V

Part No. Box Qty

Extension cable EST 2i3

Mains: 3 x 1.5 mm²
Bus: 2 x 0.5 mm²
male – female



Connection cable EST 2i3

Mains: 3 x 1.5 mm²
Bus: 2 x 0.5 mm²
male – free end

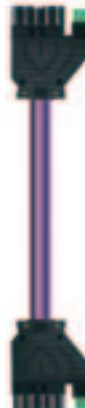


The complete range can be found under **EST 2i3**

Part No. Box Qty

Extension cable EST 2i5

Mains: 5 x 2.5 mm²
Bus: 2 x 0.5 mm²
male – female



Part No. Box Qty

Connection cable EST 2i5

Mains: 5 x 2.5 mm²
Bus: 2 x 0.5 mm²
male – free end



The complete range can be found under **EST 2i5**

1.0 m	94.502.1000.7	30	94.502.1004.7	40	94.553.1000.7	20	94.553.1004.7	20
2.0 m	94.502.2000.7	20	94.502.2004.7	20	94.553.2000.7	10	94.553.2004.7	10
3.0 m	94.502.3000.7	15	94.502.3004.7	15	94.553.3000.7	8	94.553.3004.7	8
4.0 m	94.502.4000.7	10	94.502.4004.7	10	94.553.4000.7	5	94.553.4004.7	5
5.0 m	94.502.5000.7	10	94.502.5004.7	10	94.553.5000.7	5	94.553.5004.7	5
6.0 m	94.502.6000.7	8	94.502.6004.7	8	94.553.6000.7	4	94.553.6004.7	4
7.0 m	94.502.7000.7	6	94.502.7004.7	6	94.553.7000.7	4	94.553.7004.7	4
8.0 m	94.502.8000.7	5	94.502.8004.7	5	94.553.8000.7	3	94.553.8004.7	3

Type	EST 2i3FKSB S	EST 2i3FKS-S	EST 2i5FKSB	EST 2i5FKS-S
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BST 14i 3 pole 50 V, 3 A – GST 18i 3 pole 250 V, 16 A – GST 18i 5 pole 250/400 V, 16 A

Flat cable adapter BST 14i3

for control signals

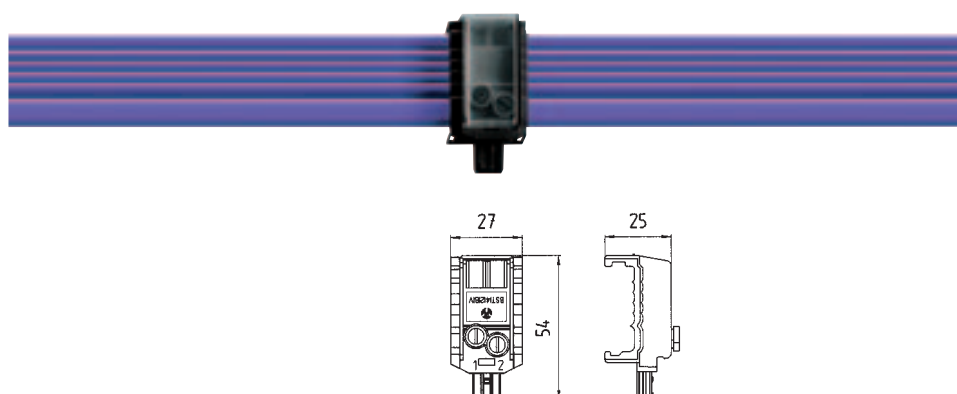
With insulation piercing technology for tapping off the 2 pole control signals. A connection to the screen is not provided. The third pole of the connector thus remains free. Outgoing unit with female connector, BST 14i3 coding at right angles to cable entry.

See "Technical Data" for installation instructions

Application Coding Colour

Part No. Box Qty

Further connection with components of the **BST 14i3 range**



2 pole bus and control signal		black
Combination 3 pole mains + 2 pole bus/control signal		black
Combination 5 pole mains + 2 pole bus/control signal		black

93.421.2853.1 50

Application Coding Colour

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Locking device

**for EST 3i3, EST 3i5
for latching into position**

(VDE 0628 requires use of a locking device)



05.587.3156.1

Extension cable BST 14i3

**3 x 0.5 mm²
female – male**



Connection cable BST 14i3

**3 x 0.5 mm²
male – free end⁸⁾**



The complete range can be found under **BST 14i3**

2 pole bus and control signal		black
Combination 3 pole mains + 2 pole bus/control signal		black
Combination 5 pole mains + 2 pole bus/control signal		black

1.0 m	94.435.1000.1	100	94.435.1004.1	100
2.0 m	94.435.2000.1	50	94.435.2004.1	50
3.0 m	94.435.3000.1	30	94.435.3004.1	50
4.0 m	94.435.4000.1	30	94.435.4004.1	30
5.0 m	94.435.5000.1	30	94.435.5004.1	30
6.0 m	94.435.6000.1	25	94.435.6004.1	25
7.0 m	94.435.7000.1	25	94.435.7004.1	25
8.0 m	94.435.8000.1	20	94.435.8004.1	20

Type BST 14i3KF BS BST 14i3KF-S

EST 3i3

EST 3i5

Flat cable system 7 pole

Flat cable adapter EST 3i3

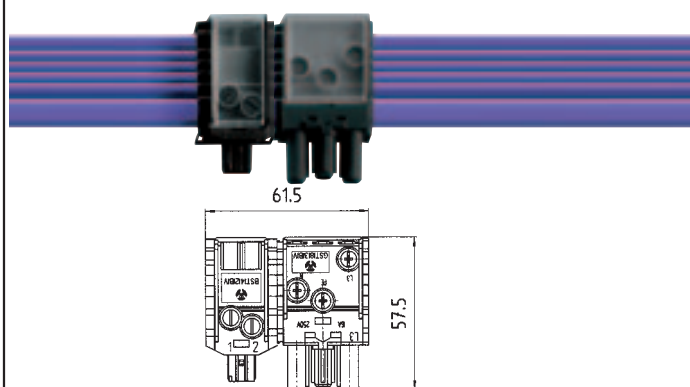
for mains 3 pole and BST 14i3 2 pole control signal

with insulation piercing technology for tapping off the mains and control signals.
Can be combined from single adapter (latched) and mounted individually. Outgoing unit with female connector, GST 18i3, BST 14i3 or EST 3i3 coding at right angles to cable entry.
Locking device should be used.

See "Technical Data" for installation instructions

Part No. Box Qty

Further connection with components of the **EST 3i3** range



Select the phase conductor Separate order numbers

L1	92.031.4153.1	50	Type GST 18i3I B1 V...1
	93.421.2853.1	50	Type BST 14i2I B1 V
L2	92.031.4253.1	50	Type GST 18i3I B1 V...2
	93.421.2853.1	50	Type BST 14i2I B1 V
L3	92.031.4353.1	50	Type GST 18i3I B1 V...3
	93.421.2853.1	50	Type BST 14i2I B1 V

Flat cable adapter EST 3i5

5 pole mains 2 pole EIB Bus/control signals

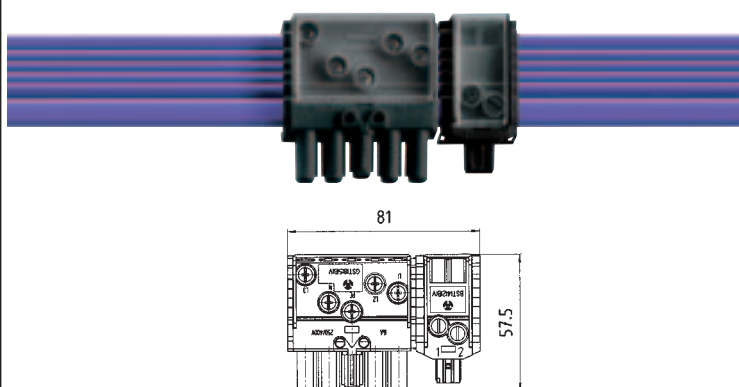
for 5 pole mains and BST 14i3 2 pole control signal

with insulation piercing technology for tapping off the mains and control signals.
Can be combined from single adapter (latched) and mounted individually. Outgoing unit with female connector, GST 18i5, BST 14i3 or EST 3i5 coding at right angles to cable entry.
Locking device should be used.

See "Technical Data" for installation instructions

Part No. Box Qty

Further connection with components of the **EST 3i5** range



Separate order numbers

92.051.0353.1	50	Type GST 18i5I B1 V
93.421.2853.1	50	Type BST 14i2I B1 V

Part No. Box Qty Part No. Box Qty

Extension cable EST 3i3

Mains: 3 x 1.5 mm²
Bus : 2 x 0.5 mm²
male - female



Connection cable EST 3i3

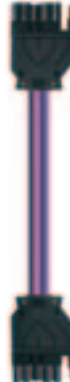
Mains: 3 x 1.5 mm²
Bus : 2 x 0.5 mm²
male - free end



The complete range can be found under **EST 3i3**

Extension cable EST 3i5

Mains: 5 x 2.5 mm²
Bus : 2 x 0.5 mm²
male - female



Connection cable EST 3i5

Mains: 5 x 2.5 mm²
Bus : 2 x 0.5 mm²
male - free end



The complete range can be found under **EST 3i5**

1.0 m	94.512.1000.1	30	94.512.1004.1	40	94.563.1000.1	20	94.563.1004.1	20
2.0 m	94.512.2000.1	20	94.512.2004.1	20	94.563.2000.1	10	94.563.2004.1	20
3.0 m	94.512.3000.1	15	94.512.3004.1	15	94.563.3000.1	8	94.563.3004.1	8
4.0 m	94.512.4000.1	10	94.512.4004.1	10	94.563.4000.1	5	94.563.4004.1	5
5.0 m	94.512.5000.1	10	94.512.5004.1	10	94.563.5000.1	5	94.563.5004.1	5
6.0 m	94.512.6000.1	8	94.512.6004.1	8	94.563.6000.1	4	94.563.6004.1	4
7.0 m	94.512.7000.1	6	94.512.7004.1	6	94.563.7000.1	4	94.563.7004.1	4
8.0 m	94.512.8000.1	5	94.512.8004.1	5	94.563.8000.1	3	94.563.8004.1	3

Type	EST 3i3FKSBS	EST 3i3FKS-S	EST 3i5FKSBS	EST 3i5FKS-S
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GST 18i 3 pole 250 V, 16 A – GST 18i 5 pole 250/400 V 16 A

Cable clip for flat cable		Cable end cap		Sample set, small	
		- Guarantees safety clearance between the individual cores. - must be mounted at the start and end of each cable Sheath strip length of flat cable: 15 mm		For the flat cable system 7 pole	
Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
					
05.562.3000.0	100	05.562.2900.0	20	99.477.0000.0	1
				Contents: Flat cable00.702.0323.9 GST 18i3 Adapter92.031.4153.1 GST 18i5 Adapter92.051.0353.1 BST 14i2 Adapter93.421.0853.0	
Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Flat cable PVC for mains: 5 x 2.5 mm ² bus: 2 x 1.5 mm ² with twin screen (complies with EIB specification) purple, insulating material: PVC		Flat cable halogen-free for mains: 5 x 2.5 mm ² bus: 2 x 1.5 mm ² with twin screen (complies with EIB specification), Purple with “LSOH” markings Insulating material: thermoplastic PE compound		Sheath stripping tool for stripping the sheath of the flat cable	
					
00.702.0323.9 Please indicate length required (max. 350 m) Warranties on all parts apply only where original cable as specified in this catalogue is used		00.709.0323.9 Please indicate length required (max. 350 m) Warranties on all parts apply only where original cable as specified in this catalogue is used		95.350.0200.0 1	

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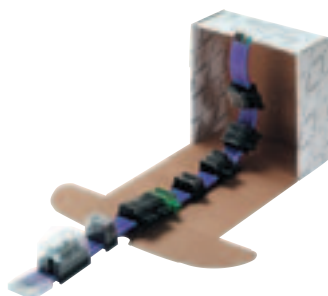
Flat cable system 7-pole

5 pole mains 2 pole EIB Bus/control signals

Sample set, complete

for the 7 pole flat cable system, with full component set

Part No.	Box Qty
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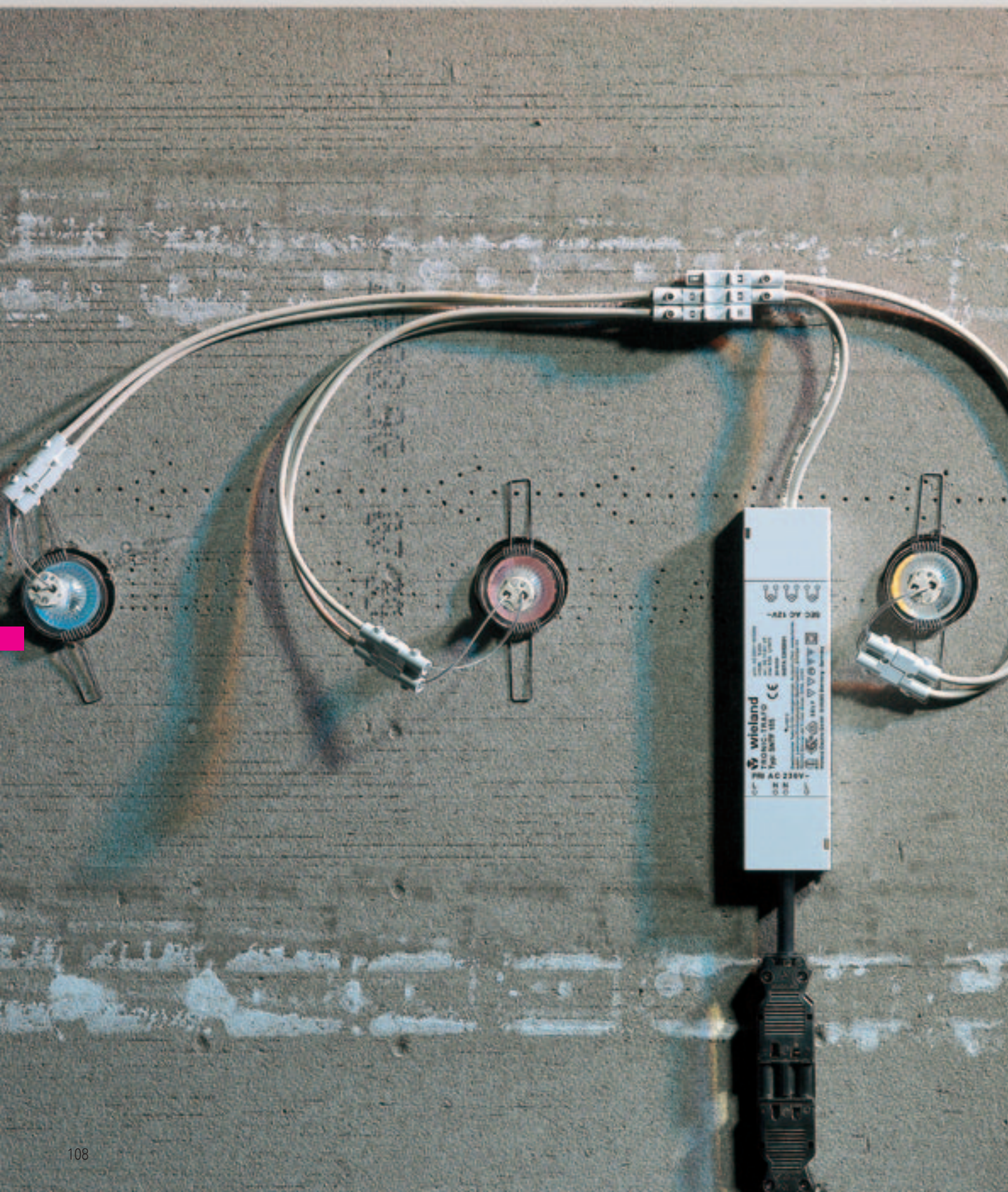


99.470.0000.0 1

Contents:

Flat cable	00.702.0323.9
Flat cable adapter for 3 pole mains, L1	92.031.4153.1
Flat cable adapter for 3 pole mains, L2	92.031.4253.1
Flat cable adapter for 3 pole mains, L3	92.031.4353.1
Flat cable adapter for 5 pole mains	92.051.0353.1
Flat cable adapter for 2 pole EIB Bus	92.421.0853.0
Flat cable adapter for 2 pole control signals	92.421.2853.1
Incoming supply for 5 pole mains	92.050.8053.0
Incoming supply for 2 pole, bus/control signals	92.420.1053.0
Cable end cap	05.562.2900.0

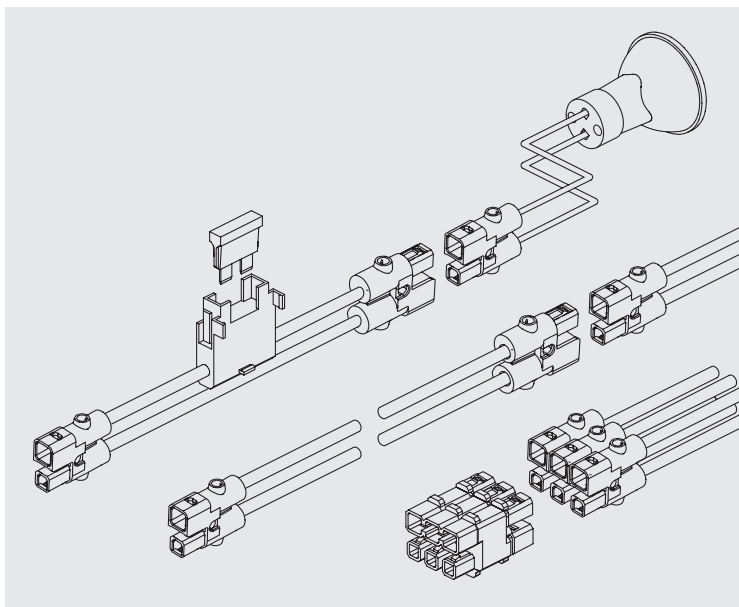




ST 16

2 pole low voltage

Application example



General

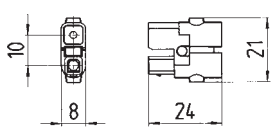
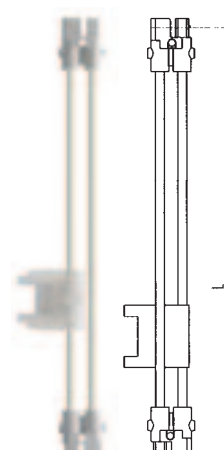
ST 16 is the product line that is used when wiring low voltage lamps. Each individual plug element combines the female and male connectors in one device. As a result, the ST 16 system is reduced to a small number of basic elements. With their compact design, these connectors offer a high level of convenience during installation as well as only requiring a limited amount of space, via a prefabricated electronic transformer. It is also possible to be supplied with a direct plug-in connection to the GST 18i3 line (3 pole mains).

Coding

			Application	Low volt. 2 pole
Name	Description	Connection style	Connection points per pole	white
Connector		Screw	1	
Junction	1 input 3 outputs			
Prefabricated cables	Connector – free end	preassembled	preassembled	
	Connector – both ends			
	Connector – free end with fuse holder			
	Connector – both ends with fuse holder			
Electronic transformer	Primary: Connector 1 x GST 18i3 Secondary: conn. cable ST 16	Screw	2	
	Primary: connector Secondary: conn. cable ST 16			



ST 16/2 pole MINI-compact for low voltage halogen lamps, 48 V, 25 A

	Screw connection		Extender lead		Connection lead		Fused extension lead	
	For 0.5 – 2.5 mm ² ¹⁾ cables, without strain relief, with latching device		2 x 2.5 mm² both ends with integral connectors, with latching device		2 x 2.5 mm² with integral connectors and free end, with ferrules and latching device		2 x 2.5 mm² with fuse carrier ²⁾ both ends with integral connectors, with latching device	
Length m	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
0.35 0.6 1.2 1.8 2.4	  93.016.0053.0 100							
			94.623.0031.2 250 94.623.0631.2 200 94.623.1231.2 100 94.623.1831.2 75 94.623.2431.2 50		94.623.0032.2 250 94.623.0632.2 200 94.623.1232.2 100 94.623.1832.2 75 94.623.2432.2 50		94.603.0031.2 250 94.603.0631.2 200 94.603.1231.2 100 94.603.1831.2 75 94.603.2431.2 50	
	Type	ST 16/2 BS	ST 16/2 BSK1BS		ST 16/2 BSK1–		ST 16/2 BSK1SiBS	
	Part No.	Box Qty	Rated voltage Power range		Power current			

Electronic transformer

Ambient temperature (t_a) max. 50 °C for maximum load
Secondary cable max. 2 m, min. 1.5 mm²

Can be plugged into **gesis** GST 18i 3 pole on primary side
99.448.9999.9 1 230V AC 50/60 Hz 35-105 W 0.45 A



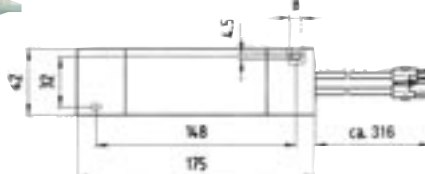
Overall height 18 mm



Can be clamped on primary side with screw connection (N, N, L, L)
99.450.9999.9 1 230V AC 50/60 Hz 35-105 W 0.45 A



Overall height 18 mm



¹⁾ 2.5 mm²: only with Wieland ferrules (see connection cable)

²⁾ Flat cable fuse: type C according to DIN 72581 Part 3

Maximum leakage loss of flat cable fuse = 2.5 W, for Wieland fuses max. $I_N = 15$ A should be ordered separately

ST 16

Fused connection lead

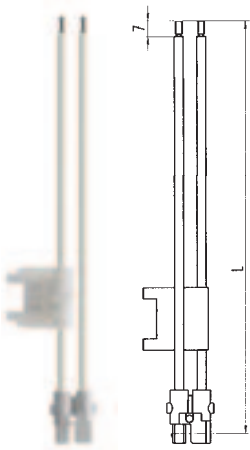
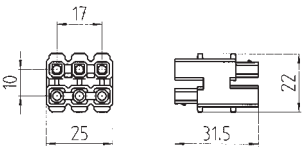
2 x 2.5 mm²
with fuse carrier²⁾
integral connectors and free end,
with ferrules and latching device

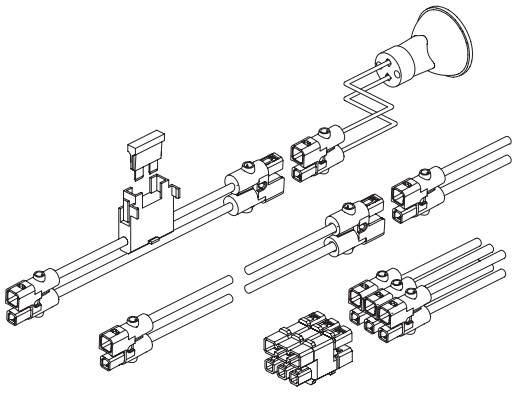
Distribution block

1 input/5 outputs
plug-in
with latching device
without fixing lugs

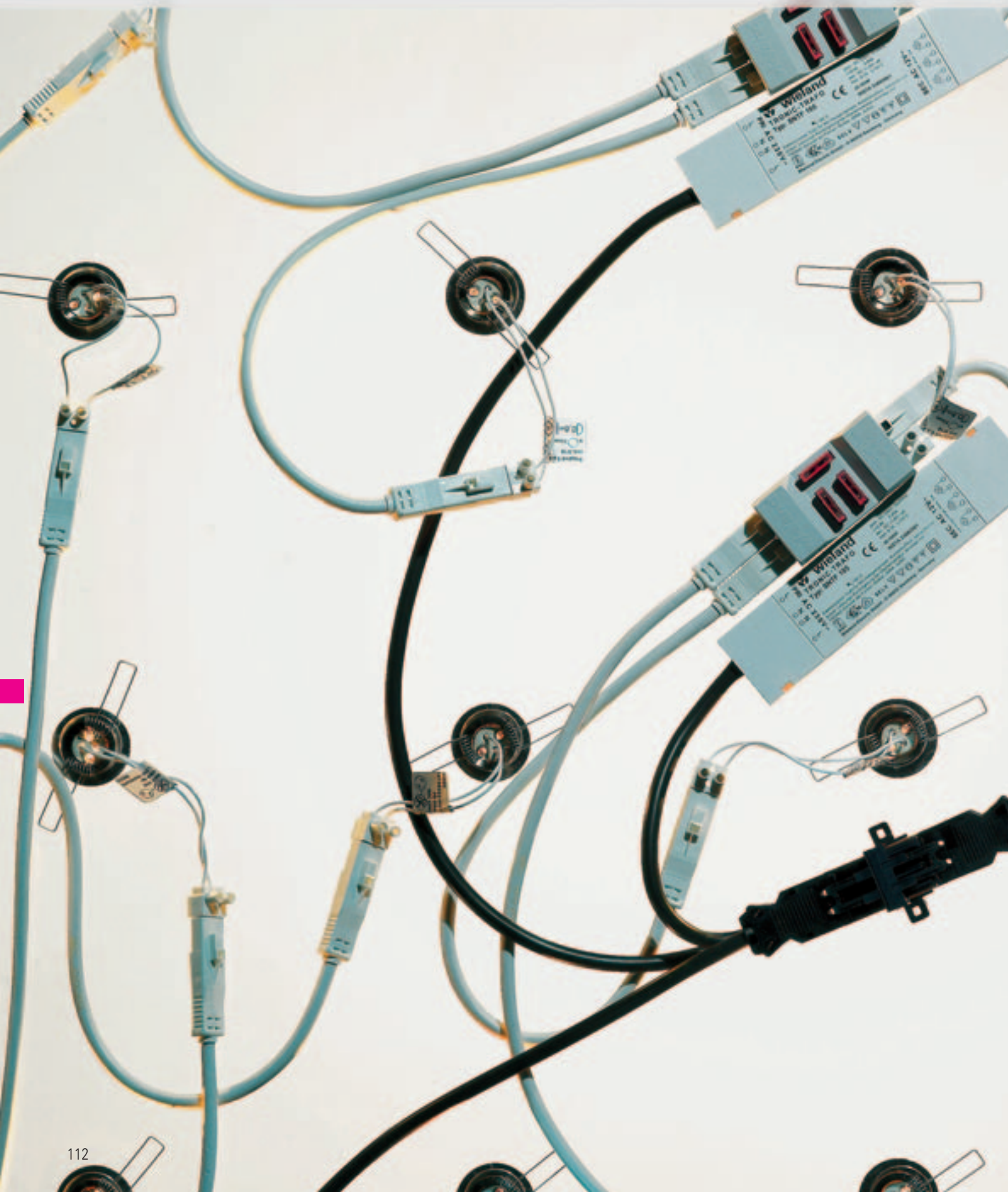
2 pole low voltage Accessories

Flat cable fuse, type C according to
DIN 72581 Part 3

Length m	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
			 			
	93.010.0153.0		100			
0.35	94.603.0032.2	250			Z8.000.0175.4	25 2A (20W)
0.6	94.603.0632.2	200			Z8.000.0175.5	25 3A (35W)
1.2	94.603.1232.2	100			Z8.000.0175.7	25 5A (50W)
1.8	94.603.1832.2	75			Z8.000.0175.9	25 10A (100W)
2.4	94.603.2432.2	50			Z8.000.0176.0	25 15A (150W)
Type	ST 16/2 BSK1Si-		ST 16/2 VT			



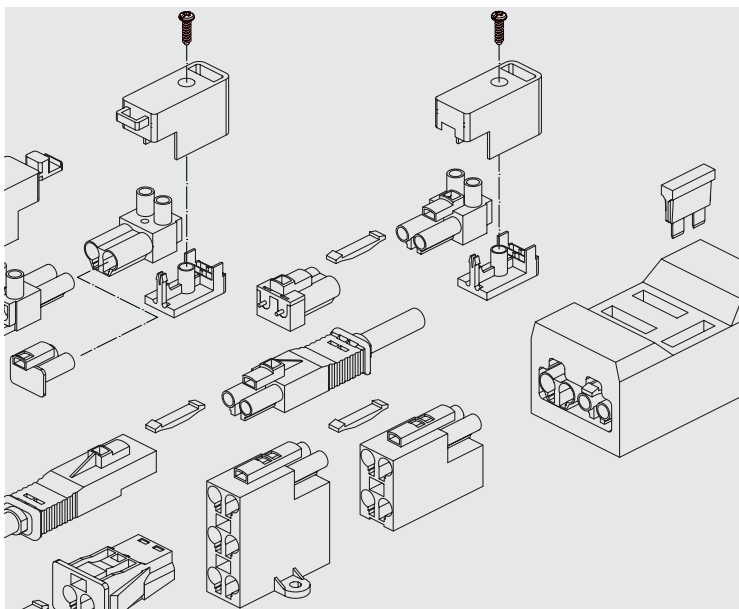
gesis[®]



ST 17

2 pole low voltage

Application example



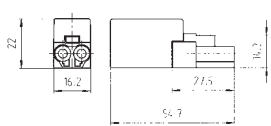
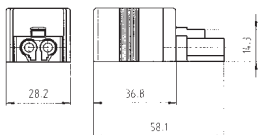
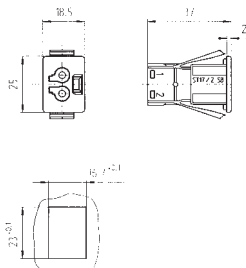
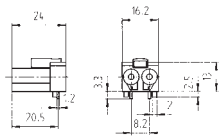
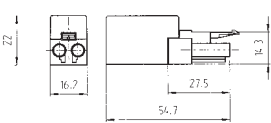
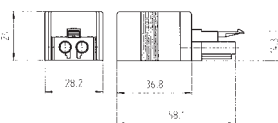
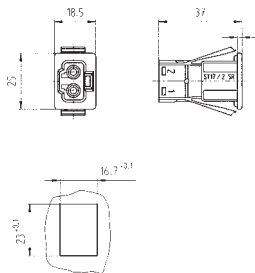
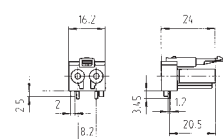
General

Connectors from the ST 17 product range enable a universal electrical installation for low voltage devices. The system stands out due to the large number of individual components which can be adapted to any application due to their versatility. The connectors are mechanically coded and are therefore not compatible to connectors of other product ranges. It is also possible to be supplied with a direct plug-in connection to the GST 18i3 line (3 pole mains), via the prefabricated electronic transformer.

Coding

				Application	Low volt. 2 pole	
Name	Description	Connection style	Strain relief housing	Connection points per pole	black	white
Connector		Screw	yes	1		
Snap in	for material thickness: 0.5-1.5 mm	Spring		2		
Solder conn.	90°	solder pins		1		
Junction	1 input 3 outputs					
	1 input 5 outputs					
	1 input 3 outputs with integrated fuses					
Prefabricated cables	Male connector – free end	preassembled	preassembled	preassembled		
	Female connector – free end					
	Female connector – Male connector					
Electronic transformer	Primary: Connector 1xGST 18i3 Secondary: conn. cable ST 17	Screw	yes	2		
	Primary connector Secondary: conn. cable ST 17					

ST 17/2 pole compact connector for low voltage halogen lamps, 48 V, 16 A

	Screw connection		Screw connection		Snap-in, screwless		Soldered connection		
	for cables up to 2.5 mm² single core and finely stranded, one connection per pole unassembled with strain relief for cables Ø 5.5 – 7 mm		for cables up to 6 mm² single core and finely stranded, one connection per pole unassembled with strain relief for cables Ø 11.5 – 13.5 mm		Can be latched into section of housing ¹⁾ 2 screwless connections per pole, rigid cables 0.5 – 2.5 mm² finely stranded with ferrules: 0.5 – 1.5 mm², lockable		horizontal can be soldered onto printed circuit board at right angles with locating cams, lockable		
Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty	
Female connector									
									
	black	93.941.0558.1	100	93.941.4158.1	100	93.041.0253.0	100	93.081.1558.1	100
	white	93.941.0558.0	100	93.941.4158.0	100	93.041.0258.0	100	93.081.1558.0	100
Type	ST 17/2 B1ZE1		ST 17/2 B1QZE1		ST 17/2 BR		ST 17/2 BFV1		
Colour	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty	
Male connector	with locking device 		with locking device 		with locking device 		with locking device 		
									
	black	93.942.0558.1	100	93.942.4158.1	100	93.042.0253.0	100	93.082.1558.1	100
	white	93.942.0558.0	100	93.942.4158.0	100	93.042.0258.0	100	93.082.1558.0	100
Type	ST 17/2 SZE1		ST 17/2 SQZE1		ST 17/2 SR		ST 17/2 SFV1		
Caution: One connection slot is lost when these components are inserted in the distribution block.		Caution: One connection slot is lost when these components are inserted in the distribution block.		¹⁾ Material, deburring and coating thickness may influence cut-out dimensions. Detailed installation instructions are available on request.					

Distribution block

Distribution block

Fused distribution block

Accessories

with locking device

1 input
male 2 pole
3 outputs
female 2 pole

with locking device

1 input
male 2 pole
5 outputs
female 2 pole

with integrated fuses¹⁾
with locking device

1 input
male 2 pole
3 outputs
female 2 pole

¹⁾ flat cable fuse according to
DIN 72581 part 3 should be
separately

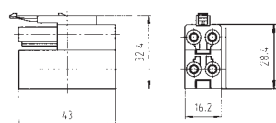
Flat cable fuse, type C according to
DIN 72581 part 3

Part No. Box Qty

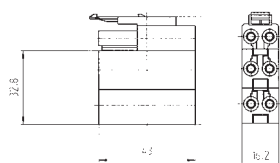
Part No. Box Qty

Part No. Box Qty

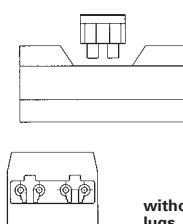
Part No. Box Qty



without fixing
lugs



without fixing
lugs



without fixing
lugs



93.040.1353.1 100
93.040.1353.0 100

ST 17/2 VT 3/1

93.040.1153.1 100
93.040.1153.0 100

ST 17/2 VT 5/1

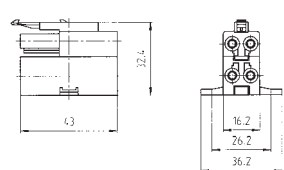
93.040.2050.0 4

ST 17/2 VT 3/1 SI

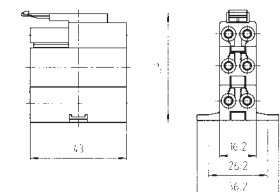
Z8.000.0175.4 25 2A (20W)
Z8.000.0175.5 25 3A (35W)
Z8.000.0175.7 25 5A (50W)
Z8.000.0175.9 25 10A (100W)
Z8.000.0176.0 25 15A (150W)
Z8.000.0202.8 25 20A (100W)
Z8.000.0202.9 25 25A (150W)

Part No. Box Qty

Part No. Box Qty



with fixing lugs



with fixing lugs



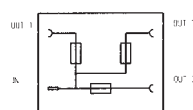
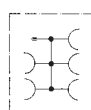
93.040.1253.1 100
93.040.1253.0 100

ST 17/2 VT 3/1F

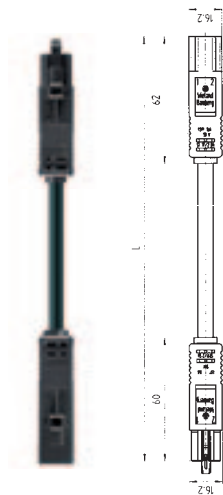
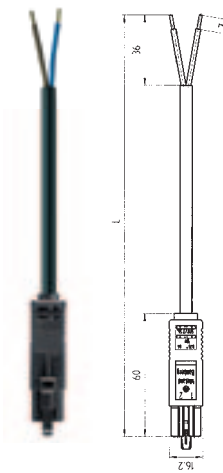
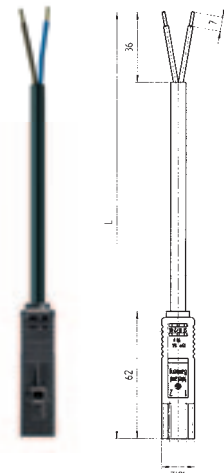


93.040.1053.1 100
93.040.1053.0 100

ST 17/2 VT 5/1F



ST 17/2 pole compact connector for low voltage halogen lamps, 48 V, 16 A

		Extender lead		Connection lead		Starter lead	
		female – male		male – free end		female – free end	
Colour	Length	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Cable assemblies							
		2.5 mm²		2.5 mm²		2.5 mm²	
black	0.5 m	94.123.0500.1	50	94.123.0504.1	50	94.123.0503.1	50
white	0.5 m	94.123.0500.2	50	94.123.0504.2	50	94.123.0503.2	50
black	1.0 m	94.123.1000.1	50	94.123.1004.1	50	94.123.1003.1	50
white	1.0 m	94.123.1000.2	50	94.123.1004.2	50	94.123.1003.2	50
black	1.5 m	94.123.1500.1	50	94.123.1504.1	50	94.123.1503.1	50
white	1.5 m	94.123.1500.2	50	94.123.1504.2	50	94.123.1503.2	50
black	2.0 m	94.123.2000.1	50	94.123.2004.1	50	94.123.2003.1	50
white	2.0 m	94.123.2000.2	50	94.123.2004.2	50	94.123.2003.2	50
black	2.5 m	94.123.2500.1	50	94.123.2504.1	50	94.123.2503.1	50
white	2.5 m	94.123.2500.2	50	94.123.2504.2	50	94.123.2503.2	50
black	3.0 m	94.123.3000.1	50	94.123.3004.1	50	94.123.3003.1	50
white	3.0 m	94.123.3000.2	50	94.123.3004.2	50	94.123.3003.2	50
black	3.5 m	94.123.3500.1	50	94.123.3504.1	50	94.123.3503.1	50
white	3.5 m	94.123.3500.2	50	94.123.3504.2	50	94.123.3503.2	50
black	4.0 m	94.123.4000.1	50	94.123.4004.1	50	94.123.4003.1	50
white	4.0 m	94.123.4000.2	50	94.123.4004.2	50	94.123.4003.2	50
		1.5 mm²		1.5 mm²		1.5 mm²	
black	0.5 m	94.122.0500.1	50	94.122.0504.1	50	94.122.0503.1	50
white	0.5 m	94.122.0500.2	50	94.122.0504.2	50	94.122.0503.2	50
black	1.0 m	94.122.1000.1	50	94.122.1004.1	50	94.122.1003.1	50
white	1.0 m	94.122.1000.2	50	94.122.1004.2	50	94.122.1003.2	50
black	1.5 m	94.122.1500.1	50	94.122.1504.1	50	94.122.1503.1	50
white	1.5 m	94.122.1500.2	50	94.122.1504.2	50	94.122.1503.2	50
black	2.0 m	94.122.2000.1	50	94.122.2004.1	50	94.122.2003.1	50
white	2.0 m	94.122.2000.2	50	94.122.2004.2	50	94.122.2003.2	50
black	2.5 m	94.122.2500.1	50	94.122.2504.1	50	94.122.2503.1	50
white	2.5 m	94.122.2500.2	50	94.122.2504.2	50	94.122.2503.2	50
black	3.0 m	94.122.3000.1	50	94.122.3004.1	50	94.122.3003.1	50
white	3.0 m	94.122.3000.2	50	94.122.3004.2	50	94.122.3003.2	50
black	3.5 m	94.122.3500.1	50	94.122.3504.1	50	94.122.3503.1	50
white	3.5 m	94.122.3500.2	50	94.122.3504.2	50	94.122.3503.2	50
black	4.0 m	94.122.4000.1	50	94.122.4004.1	50	94.122.4003.1	50
white	4.0 m	94.122.4000.2	50	94.122.4004.2	50	94.122.4003.2	50
Type		ST 17/2 BAS		ST 17/2 AS		ST 17/2 BA	

Intermediate coupler

for direct further connection

Part No.	Box Qty
93.040.0253.0	100
93.040.0258.0	100

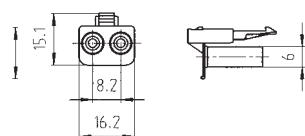


93.040.0253.0	100
93.040.0258.0	100

Type ST 17/2 ZK 1/1

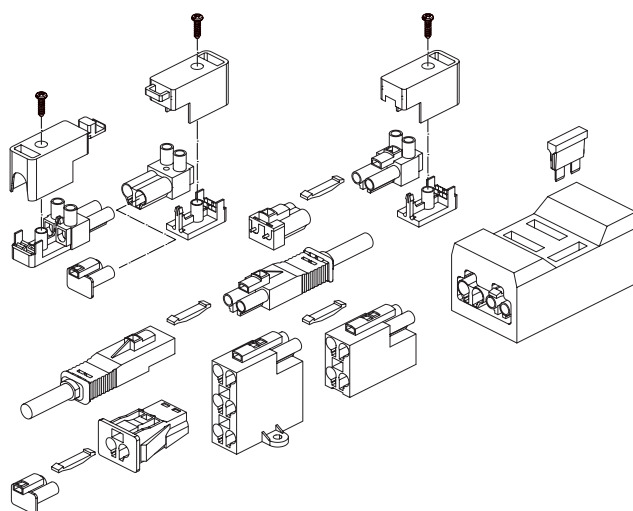
Part No.	Box Qty
93.040.0253.0	100
93.040.0258.0	100

End cap for female connector



Z5.586.4653.1	200
Z5.586.4653.0	200

Type ST 17/2 BVS

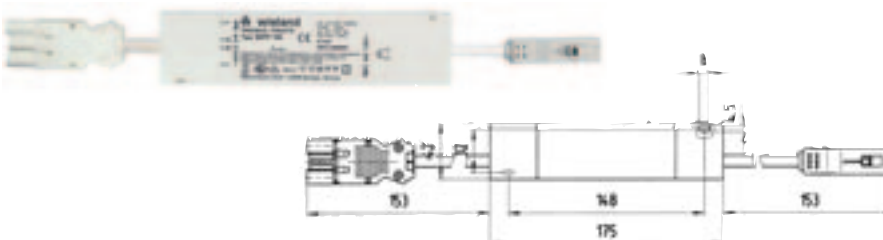


Electronic transformer

Ambient temperature (t_a) max. 50 °C for maximum load
 Secondary cable max. 2 m, min. 1.5 mm²

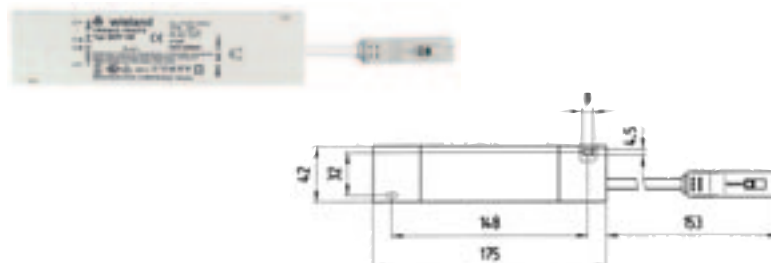
Can be plugged into **gesis** GST 18i 3 pole on primary side

99.449.9999.9	1	230V AC 50/60 Hz	35-105 W	0.45 A
---------------	---	------------------	----------	--------

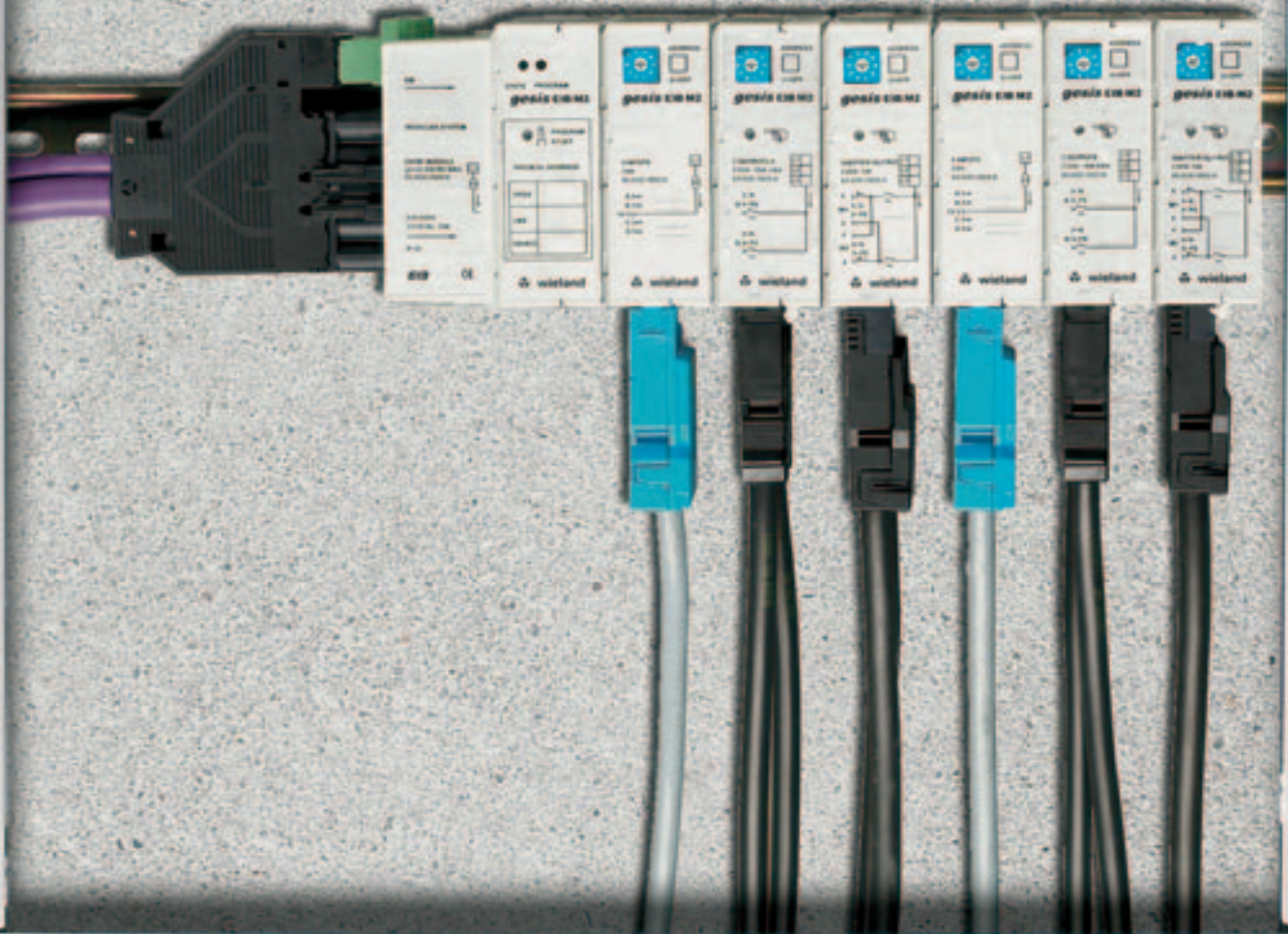


Can be clamped on primary screw connection (N, N, L, L)

99.401.9999.9	1	230V AC 50/60 Hz	35-105 W	0.45 A
---------------	---	------------------	----------	--------



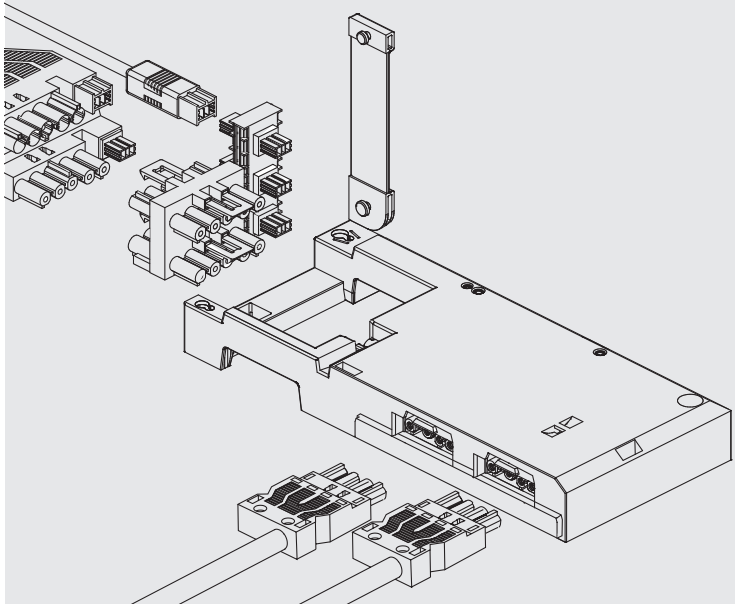
gesis[®]



EIB-Switching devices

EIB V
EIB M
EIB M2

Application example



General

The **gesis** EIB range is divided into two groups. **gesis** EIB V devices stand out due to their flat design. They are therefore extremely suitable for use in compact installation areas such as cavities.

The modular device ranges **gesis** EIB M and **gesis** EIB M2 can be adapted to a variety of requirements by connecting different extension modules to a basic module.

All **gesis** EIB devices are modular and are designed for plug and go installation. Here the advantages offered by EIB are enhanced by modular connectivity.

Type overview

				Number of					Page
				Switching outputs	Inputs 230 V AC	Inputs 24 V AC	Wind. blind outputs	Switch./dim. outputs	
Devices	Series	Type	Part.no.						
flat	gesis ® EIB V	gesis EIB V-0/2+1W	83.020.0212.0	2			1		122f
		gesis EIB V-0/2+1W 1PH	83.020.0212.2	2			1		122f
		gesis EIB V-0/2SD	83.020.0213.0					2	124f
		gesis EIB V-0/2SD 1PH	83.020.0213.2					2	124f
		gesis EIB V-0/4	83.020.0215.0	4					126f
		gesis EIB V-0/4 1PH	83.020.0215.2	4					126f
		gesis EIB V-0/2W	83.020.0216.0				2		128f
		gesis EIB V-0/2W 1PH	83.020.0216.2				2		128f
modular	gesis ® EIB M	gesis EIB M-BAS	83.020.1000.0	2					132f
		gesis EIB M-2x2/0	83.020.1001.0		4				134
		gesis EIB M-2x2/0 (24 V)	83.020.1002.0			4			135
		gesis EIB M-0/2	83.020.1003.0	2					136
		gesis EIB M-0/1Wx2**	83.020.1004.0				2		137
		gesis EIB M-0/2 B*	83.020.1005.0	2					138
		gesis EIB M2-BAS	83.020.1020.0						142f
	gesis ® EIB M2	gesis EIB M2-4/0	83.020.1021.0		4				144
		gesis EIB M2-4/0 (24 V)	83.020.1022.0			4			145
		gesis EIB M2-0/2	83.020.1023.0	2					146
		gesis EIB M2-0/1Wx2**	83.020.1024.0				2		147
		gesis EIB M2-0/2 B*	83.020.1025.0	2					148
		gesis EIB M2-0/1SD	83.020.1026.0					1	149

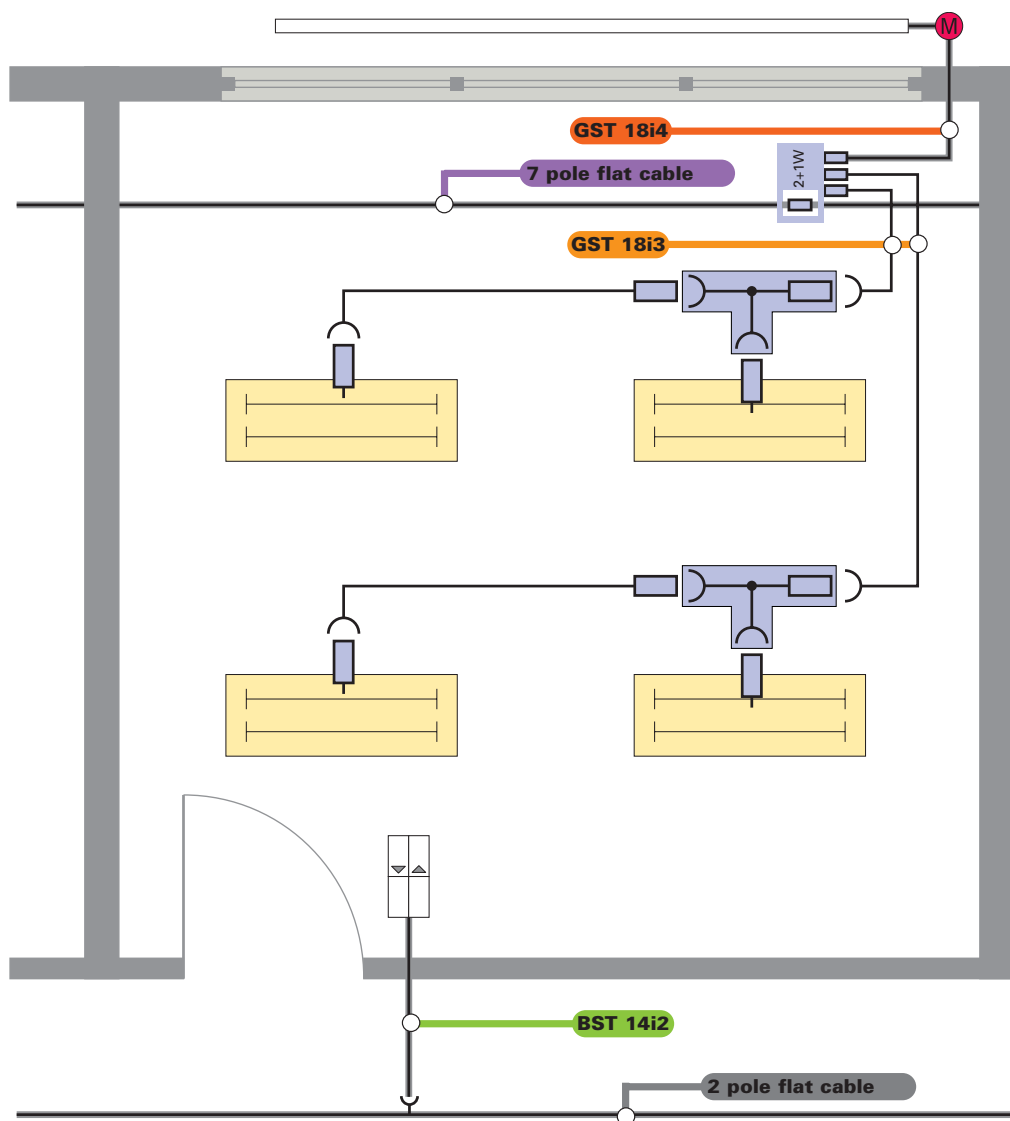
* Reduced switching capacities compared to the power switches ...0/2

** With two decoupled outputs for the connection of two parallel 230 V AC drives



Konnex Association

EIB



Office Application

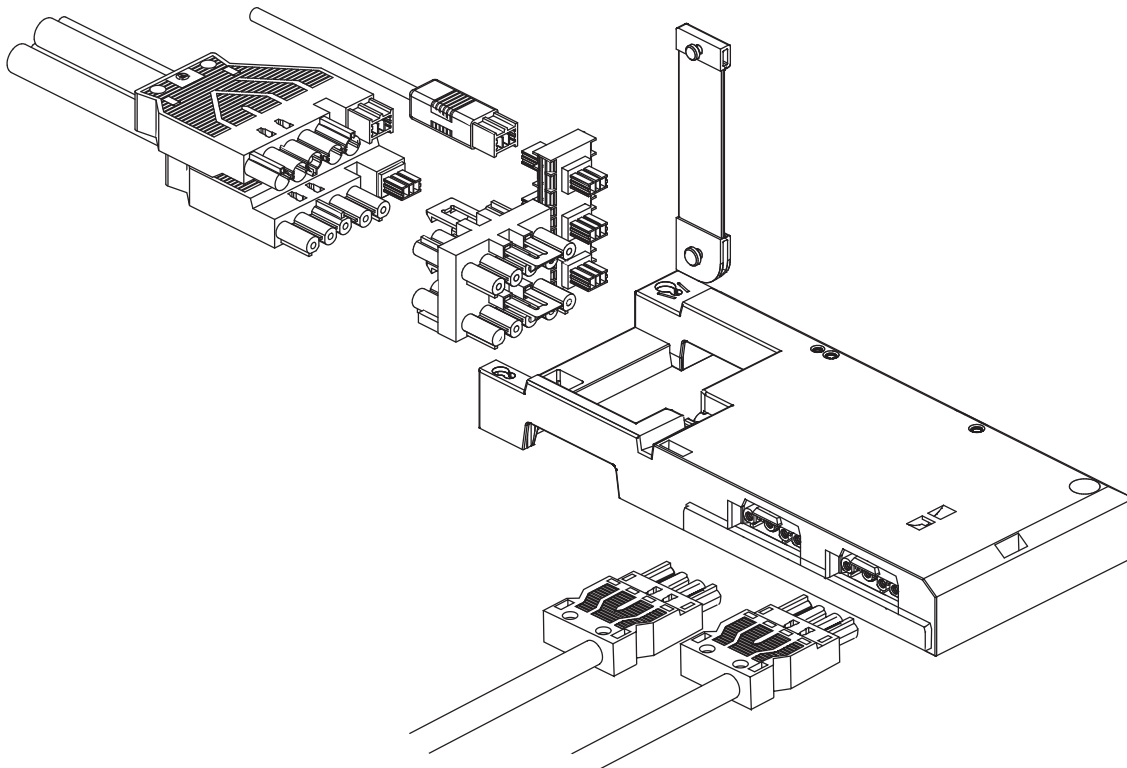
- ☐ two switched lighting circuits
- ☐ one shutter
- ☐ EIB push button

Solution with **gesis®** EIB V + Flat cable

One combi actuator **gesis** EIB V-0/2 + 1W

7 pole flat cable at the window

2 pole flat cable at the door for the EIB push button



Flat devices for compact installation areas

The EIB switching devices from the **gesis** EIB V range are ready to connect and are noted primarily for their low profile which makes them particularly suitable for installation in small voids. Short cable routes result from surface-mounted assembly in close proximity to the user.

gesis® EIB V offers:

- ☐ distributed installation
- ☐ Connectivity
- ☐ EIB compliant
- ☐ direct adaptability to flat cable
- ☐ flat design

Your benefit:

- Less cabling required
- Smaller distribution board
- Time saved during assembly
- Error free installation
- Flexibility for changes of usage
- Interoperable with all EIB devices of leading manufacturers
- Versatile use due to comprehensive application
- All benefits of installation bus systems available
- Removal of devices possible without needing to disconnect the supply
- Simple cable management
- Tap-off possible at any position
- Secure contact established with simple operation
- Can even be used in compact installation areas



Brief description

The EIB combi actuator with two switch outputs and one shutter output is attached using connectors. It thus combines the benefits of EIB with the benefits of connectable electrical installation. Apart from the usual parameter options, the actuator can manage a logic function for the outputs and an automatic rocker function and position for the shutter output.

The surface-mounted switch actuator is available in two versions. One variant is supplied as 3-phase and the other as 1-phase.

Spring loaded connection

Male connector for switch outputs. See GST 18i3 range, black



92.934.0053.1 50

Spring loaded connection

(0.75 - 1.5 mm²)

Male connector for shutter outputs. See GST 18i4 range, black



92.944.1053.1 50

Type:
1 phase mains connections
3 phase mains connections
Part number:
1 phase mains connections
3 phase mains connections

gesis EIB V-0/2+1W 1 PH
gesis EIB V-0/2+1W
83.020.0212.2
83.020.0212.0

Incoming supply:

Power supply
Connection

230/400 V~, 50..60 Hz, max. 16 A; EIB Connectors EST 2i5 or 7 pole flat cable system

Output data:

Switch outputs A1 and A2
Connection
Nominal voltage
Max. switching current
Shutter output A3
Connection
Nominal voltage
Max. switching current

2
Connectors of GST 18i3 range
230 V AC
16 A resistive load
1
Connectors of GST 18i4 range
230 V
8 A resistive load

Software:

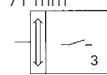
ETS Version
Product database
Part number
Internet
Functions

ETS2 V 1.1 and above
00.000.0066.1
www.gesis.com
See "Technical data"

General data:

Type of installation
Type of protection
Housing
Length / Width / Height
Height incl. combination
distribution blocks
EIB Symbol

Surface-mounted, screw fixing
IP20
Halogen-free, lightgrey RAL 7035
254 / 112 / 32 mm
71 mm



Further data:

See "Technical data"

Length

1.0 m	92.232.1004.1	75
2.0 m	92.232.2004.1	50
3.0 m	92.232.3004.1	25
4.0 m	92.232.4004.1	25
5.0 m	92.232.5004.1	20
6.0 m	92.232.6004.1	10
7.0 m	92.232.7004.1	10
8.0 m	92.232.8004.1	10

Connection cable

male – free end
For connection of the switch outputs. See GST 18i3 range, black



Connection cable

male – free end
For connection of the shutter outputs. See GST 18i4 range, black



Extension cable

male – female
For connection of the switch outputs. See GST 18i3 range, black



Extension cable

male – female
For connection of the shutter outputs. See GST 18i4 range, black



Length

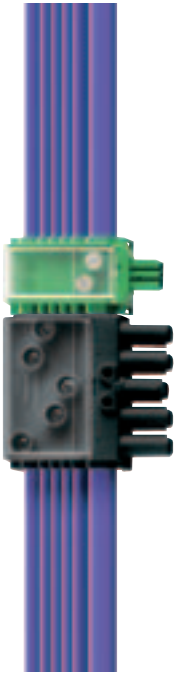
1.0 m	92.232.1000.1	75
2.0 m	92.232.2000.1	40
3.0 m	92.232.3000.1	25
4.0 m	92.232.4000.1	25
5.0 m	92.232.5000.1	20
6.0 m	92.232.6000.1	10
7.0 m	92.232.7000.1	10
8.0 m	92.232.8000.1	10

1.0 m	92.207.1000.1	50
2.0 m	92.207.2000.1	25
3.0 m	92.207.3000.1	20
4.0 m	92.207.4000.1	15
5.0 m	92.207.5000.1	10
6.0 m	92.207.6000.1	10
7.0 m	92.207.7000.1	5
8.0 m	92.207.8000.1	5

* locking device 05.590.4556.1 is required for latching into the module and must be ordered separately
** locking device 05.587.3156.1 is required for latching into the module and must be ordered separately

Flat cable adapter

Female connector for incoming supply
See 7 pole flat cable system.
Locking device → *

**Flat cable**

00.702.0323.9

EIB Adapter

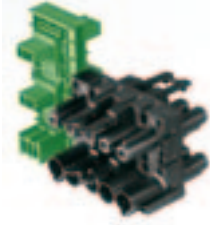
93.421.0853.0 50

Mains adapter

92.051.0353.1 50

Combination distribution block

For distribution of the power supply.
See EST 2i5 range.



93.550.0053.1 25

Part No. Box Qty

Combination connector

Female connector component for incoming supply.
See EST 2i5 range.
Locking device → **



93.551.0553.1 50

Part No. Box Qty

EIB spring loaded

Male connector for connection of EIB sensors.
See BST 14i2 range.



93.422.0553.1 50

Part No. Box Qty

Combination connection cable

female – free end
For supply of initial connection.
See EST 2i5 range.
Locking device → **



94.553.1003.7 20
94.553.2003.7 10
94.553.3003.7 8
94.553.4003.7 5
94.553.5003.7 5
94.553.6003.7 4
94.553.7003.7 4
94.553.8003.7 3

Part No. Box Qty

EIB connection cable

male – free end
For connection of EIB sensors.
See BST 14i2 range.



94.425.1004.7 100
94.425.2004.7 50
94.425.3004.7 30
94.425.4004.7 30
94.425.5004.7 30
94.425.6004.7 25
94.425.7004.7 25
94.425.8004.7 20

Part No. Box Qty

Combination connection cable

female – male
For supply of further connections. See EST 2i5 range. Locking device → **



94.553.1000.7 20
94.553.2000.7 10
94.553.3000.7 8
94.553.4000.7 5
94.553.5000.7 5
94.553.6000.7 4
94.553.7000.7 4
94.553.8000.7 3

Part No. Box Qty

EIB connection cable

male – female
For connection of EIB-Sensors
See BST 14i2 range



94.425.1000.7 100
94.425.2000.7 50
94.425.3000.7 30
94.425.4000.7 30
94.425.5000.7 30
94.425.6000.7 25
94.425.7000.7 25
94.425.8000.7 20

Part No. Box Qty

Length

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

Length

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

gesis® EIB V**2 fold switching/dimming**

Supply and distribution

Outputs

GST 18i5**Brief description:**

The EIB switch/dimming actuator with two outputs is attached using connectors. It thus combines the benefits of EIB with the benefits of connectable electrical installation. Apart from the usual parameter options, the actuator can manage four different scenes for the two outputs, due to the comprehensive application. The surface-mounted switch actuator

is available in two versions. One variant is supplied as 3-phase and the other as 1-phase.

Screw connection

Male connector for connection of the switch/dimming outputs
See GST 18i5 pastel blue



92.954.3453.0 50

Part No. Box Qty

Connection cable

male – free end
for connection of the switch/dimming outputs
See GST 18i5 pastel blue

**Length**

1.0 m	92.257.1004.9	30
2.0 m	92.257.2004.9	20
3.0 m	92.257.3004.9	15
4.0 m	92.257.4004.9	10
5.0 m	92.257.5004.9	10
6.0 m	92.257.6004.9	8
7.0 m	92.257.7004.9	5
8.0 m	92.257.8004.9	5

Part No. Box Qty

Extension cable

male – female
for connection of the switch/dimming outputs
See GST 18i5 pastel blue

**Length**

1.0 m	92.257.1000.9	30
2.0 m	92.257.2000.9	20
3.0 m	92.257.3000.9	15
4.0 m	92.257.4000.9	10
5.0 m	92.257.5000.9	10
6.0 m	92.257.6000.9	8
7.0 m	92.257.7000.9	5
8.0 m	92.257.8000.9	5

Type:

- 1 phase mains connection
- 3 phase mains connection

Part number:

- 1 phase mains connection
- 3 phase mains connection

Incoming supply:

Power supply
Connection

gesis EIB V-0/2SD 1PH
gesis EIB V-0/2SD

83.020.0213.2
83.020.0213.0

230/400 V~,50..60 Hz, max. 16 A; EIB
Connectors of EST 2i5 range or 7 pole
flat cable system

Output data:**Number**

2

Connection

Connectors of GST 18i5

Switch output:

Nominal voltage

230 V AC

Max. switching current

16 A resistive load

Control output:

Nominal voltage

1-10 V (passive)

Maximum nominal current

50 mA

Software:**ETS Version**

ETS2 V1.1 and above

Product database

Part number

00.000.0066.1

Internet

www.gesis.com

Functions

See "Technical data"

General data:**Type of installation**

Surface mounted, screw fixing

Type of protection

IP20

Housing

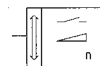
halogen free lightgrey RAL 7035

Length/width/height

254 / 112 / 32 mm

height incl. combination

distribution block

EIB Symbol**Further data:**

See "Technical Data"

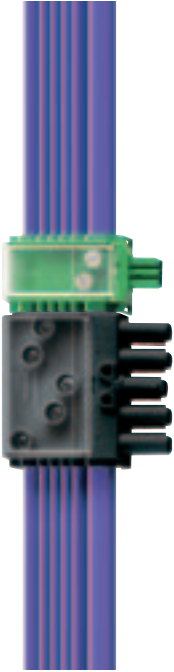
Function	Pole designation	Colour of core	External terminal device
	Male connector	Connection cable	
Switch output 2	+	black 1	1-10 V
Control output 2	-	brown	
PE	⊕	green/yellow	
N	N	blue	
Switch output 2	L	black	
Switch output 1	+	black 1	1-10 V
Control output 1	-	brown	
PE	⊕	green/yellow	
N	N	blue	
Switch output 1	L	black	

* Locking device 05.590.4556.1 is required for latching into the module and must be ordered separately

** Locking device 05.587.3156.1 is required for latching into the module and must be ordered separately

Flat cable adapter

Female connector for incoming supply. See 7 pole flat cable system
Locking device → *

**Flat cable**

00.702.0323.9

EIB adapter

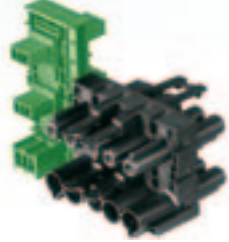
93.421.0853.0 50

Mains adapter

92.051.0353.1 50

Combination distribution block

For distribution of the power supply
See EST 2i5 range



93.550.0053.1 25

Combination connector

Female connector for incoming supply. See EST 2i5 range
Locking device → **



93.551.0553.1 50

EIB spring loaded

Male connector for connection of EIB sensors. See BST 14i2 range



93.422.0553.1 50

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Combination connection cable

female – free end
For supply of initial connection. See EST 2i5 range. Locking device → **

**EIB connection cable**

male – free end
For connection of EIB sensors. See BST 14i2 range

**Length**

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

94.553.1003.7 20
94.553.2003.7 10
94.553.3003.7 8
94.553.4003.7 5
94.553.5003.7 5
94.553.6003.7 4
94.553.7003.7 4
94.553.8003.7 3

94.425.1004.7 100
94.425.2004.7 50
94.425.3004.7 30
94.425.4004.7 30
94.425.5004.7 30
94.425.6004.7 25
94.425.7004.7 25
94.425.8004.7 20

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Combination connection cable

female – male
For supply of further connections. See EST 2i5 range. Locking device → **

**EIB connection cable**

male – female
For connection of EIB sensors. See BST 14i2

**Length**

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

94.553.1000.7 20
94.553.2000.7 10
94.553.3000.7 8
94.553.4000.7 5
94.553.5000.7 5
94.553.6000.7 4
94.553.7000.7 4
94.553.8000.7 3

94.425.1000.7 100
94.425.2000.7 50
94.425.3000.7 30
94.425.4000.7 30
94.425.5000.7 30
94.425.6000.7 25
94.425.7000.7 25
94.425.8000.7 20

gesis® EIB V**4 fold switch output**

Supply and distribution

Outputs

GST 18i3**Brief description**

The EIB 4 fold switch actuator is attached using connectors. It thus combines the benefits of EIB with the benefits of connectable electrical installation. Due to the comprehensive application, the actuator parameters can be set as a standard switch, time switch or staircase lighting timer. The outputs can be set to switch on or off on bus failure/recovery. The surface-mounted switch

actuator is available in two versions. One variant is supplied as 3-phase and the other as 1-phase.

Spring loaded connection

Male connector of the switch outputs
See GST 18i3 range, black



92.934.0053.1 50

Part No. Box Qty

Connection cable

male – free end
For connection of the switch outputs
See GST 18i3 range, black

**Length**

1.0 m	92.232.1004.1	75
2.0 m	92.232.2004.1	50
3.0 m	92.232.3004.1	25
4.0 m	92.232.4004.1	25
5.0 m	92.232.5004.1	20
6.0 m	92.232.6004.1	10
7.0 m	92.232.7004.1	10
8.0 m	92.232.8004.1	10

Part No. Box Qty

Extension cable

male – female
For connection of the switch outputs
See GST 18i3 range, black

**Length**

1.0 m	92.232.1000.1	75
2.0 m	92.232.2000.1	40
3.0 m	92.232.3000.1	25
4.0 m	92.232.4000.1	25
5.0 m	92.232.5000.1	20
6.0 m	92.232.6000.1	10
7.0 m	92.232.7000.1	10
8.0 m	92.232.8000.1	10

Type:

- 1 phase mains connection
- 3 phase mains connection

Part number:

- 1 phase mains connection
- 3 phase mains connection

Incoming supply:

Power supply
Connection

gesis EIB V-0/4 1PH
gesis EIB V-0/4

83.020.0215.2
83.020.0215.0

230/400 V~, 50..60 Hz, max. 16 A; EIB
Connectors of EST 2i5 range of 7 pole
flat cable system

Output data:

Number
Connection

4
Connectors of GST 18i3 range black

Nominal voltage
Max. switching current

230 V AC
16 A resistive load

Software:

ETS Version
Product database
Part number
Internet
Functions

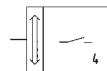
ETS2 V1.1 and above

00.000.0066.1
www.gesis.com
See "Technical data"

General data:

Type of installation
Type of protection
Housing
Length/width/height
height incl. combination
distribution block
EIB Symbol

Surface mounted, screw fixing
IP20
halogen free, lightgrey RAL 7035
254 / 112 / 32 mm
71 mm

**Further data:**

See "Technical data"

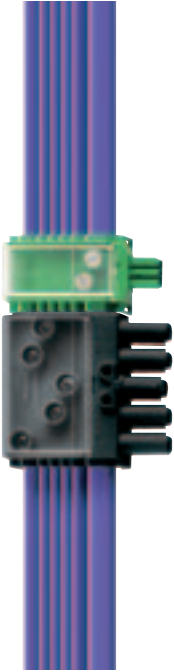
Function	Pole designation Male connector	Colour of core Connection cable	External terminal device
Output 4 PE N	L ⊕ N	brown green/yellow blue	
Output 3 PE N	L ⊕ N	brown green/yellow blue	
Output 2 PE N	L ⊕ N	brown green/yellow blue	
Output 1 PE N	L ⊕ N	brown green/yellow blue	

* Locking device 05.590.4556.1 is required for latching into the module and must be ordered separately

** Locking device 05.587.3156.1 is required for latching into the module and must be ordered separately

Flat cable adapter

Female connector for incoming supply
See 7 pole flat cable system
Locking device → *

**Flat cable adapter**

00.702.0323.9

EIB adapter

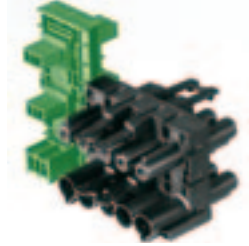
93.421.0853.0 50

Mains adapter

92.051.0353.1 50

Combination distribution block

For distribution of the power supply.
See EST 2i5 range



93.550.0053.1 25

Combination connector

Female connector for incoming supply.
See EST 2i5 range
Locking device → **



93.551.0553.1 50

EIB spring-loaded connection

Male connector for connection of EIB sensors.
See BST 14i2 range



93.422.0553.1 50

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Combination connection cable

female – free end
For supply of initial connection. See EST 2i5 range Locking device → **

**EIB connection cable**

male – free end
For connection of EIB sensors
See BST 14i2 range

**Length**

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

94.553.1003.7 20
94.553.2003.7 10
94.553.3003.7 8
94.553.4003.7 5
94.553.5003.7 5
94.553.6003.7 4
94.553.7003.7 4
94.553.8003.7 3

94.425.1004.7 100
94.425.2004.7 50
94.425.3004.7 30
94.425.4004.7 30
94.425.5004.7 30
94.425.6004.7 25
94.425.7004.7 25
94.425.8004.7 20

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Combination connection cable

female – male
For supply of further connections. See EST 2i5 range Locking device → **

**EIB connection cable**

male – female
For connection of EIB sensors.
See BST 14i2 range

**Length**

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

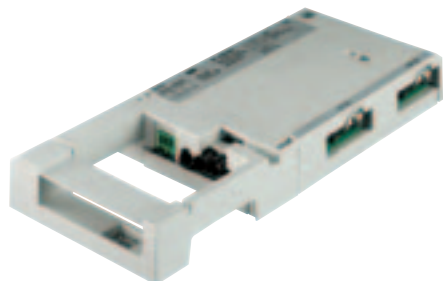
94.553.1000.7 20
94.553.2000.7 10
94.553.3000.7 8
94.553.4000.7 5
94.553.5000.7 5
94.553.6000.7 4
94.553.7000.7 4
94.553.8000.7 3

94.425.1000.7 100
94.425.2000.7 50
94.425.3000.7 30
94.425.4000.7 30
94.425.5000.7 30
94.425.6000.7 25
94.425.7000.7 25
94.425.8000.7 20

gesis® EIB V**2 fold shutter output**

Supply and distribution

Outputs

GST 18i4**Brief description:**

The EIB 2 fold shutter actuator is attached using connectors. It thus combines the benefits of EIB with the benefits of connectable electrical installation. The shutter outputs can be controlled separately and the following parameters are available:

- operation mode of shutter or motor, travel time, louvre adjustment period, pause on reverse, direction of rotation, behaviour

on bus voltage failure, behaviour in event of alarm and monitoring period for the alarm evaluation. The surface-mounted switch actuator is available in two versions. One variant is supplied as 3-phase and the other as 1-phase.

Spring loaded connection**(0.75 – 1.5 mm²)**

Male connector of the shutter output.

See GST 18i4 range, black



92.944.0053.1 50

Part No. Box Qty

Connection cable

male – free end

For connection of the shutter output

See GST 18i4 range, black

**Length**

1.0 m	92.207.1004.1	50
2.0 m	92.207.2004.1	25
3.0 m	92.207.3004.1	20
4.0 m	92.207.4004.1	15
5.0 m	92.207.5004.1	10
6.0 m	92.207.6004.1	10
7.0 m	92.207.7004.1	5
8.0 m	92.207.8004.1	5

Part No. Box Qty

Extension cable

male – female

For connection of the shutter output

See GST 18i4 range, black

**Length**

1.0 m	92.207.1000.1	50
2.0 m	92.207.2000.1	25
3.0 m	92.207.3000.1	20
4.0 m	92.207.4000.1	15
5.0 m	92.207.5000.1	10
6.0 m	92.207.6000.1	10
7.0 m	92.207.7000.1	5
8.0 m	92.207.8000.1	5

Type:

- 1 phase mains connection
- 3 phase mains connection

Part number:

- 1 phase mains connection
- 3 phase mains connection

Incoming supply:

Power supply
Connection

gesis EIB V-0/2W 1PH
gesis EIB V-0/2W

83.020.0216.2
83.020.0216.0

230/400 V~,50..60 Hz, max. 16 A; EIB
Connectors of EST 2i5 range of 7 pole
flat cable system

Output data:

Number
Connection

2
Connectors of GST 18i4 range black

Switch output:

Nominal voltage
Max. switching current

230 V AC
8 A resistive load

Software:

ETS Version
Product database
Part number
Internet
Functions

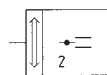
ETS2 V1.1 and above

00.000.0066.1
www.gesis.com
See "Technical data"

General data:

Type of installation
Type of protection
Housing
Length/width/height
height incl. combination
distribution block
EIB Symbol

Surface mounted, screw fixing
IP20
halogen free, lightgrey RAL 7035
254 / 112 / 32 mm
71 mm

**Further data:**

See "Technical data"

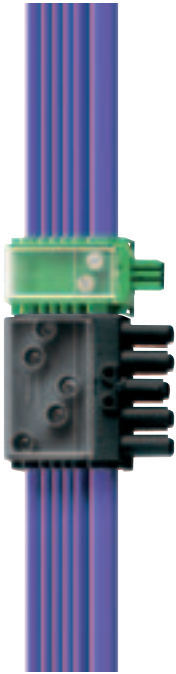
Function	Pole designation Male connector	Colour of core Connection cable	External terminal device
Motor 1 Up	2	black	
PE	⊕	green/yellow	
N	N	blue	
Motor 1 Down	2	brown	
Motor 2 Up	2	black	
PE	⊕	green/yellow	
N	N	blue	
Motor 2 Down	1	brown	

* Locking device 05.590.4556.1 is required for latching into the module and must be ordered separately

** Locking device 05.587.3156.1 is required for latching into the module and must be ordered separately

Flat cable adapter

Female connector for incoming supply
See 7 pole flat cable system
Locking device → *

**Flat cable**

00.702.0323.9

EIB Adapter

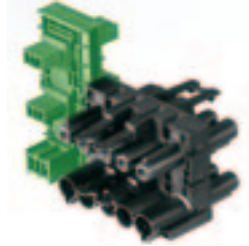
93.421.0853.0 50

Mains adapter

92.051.0353.1 50

Combination distribution block

For distribution of the power supply.
See EST 2i5 range



93.550.0053.1 25

Combination connector

Female connector for incoming supply. See EST 2i5 range
Locking device → **



93.551.0553.1 50

EIB spring-loaded connection

Male connector for connection of EIB sensors. See BST 14i2 range.



93.422.0553.1 50

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Combination connection cable

female – free end.
For supply of initial connection. See EST 2i5 range. Locking device → **

**EIB connection cable**

male – free end
For connection of EIB sensors. See BST 14i2 range.

**Length**

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

94.553.1003.7 20
94.553.2003.7 10
94.553.3003.7 8
94.553.4003.7 5
94.553.5003.7 5
94.553.6003.7 4
94.553.7003.7 4
94.553.8003.7 3

94.425.1004.7 100
94.425.2004.7 50
94.425.3004.7 30
94.425.4004.7 30
94.425.5004.7 30
94.425.6004.7 25
94.425.7004.7 25
94.425.8004.7 20

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Combination connection cable

female – male
for supply of further connections. See EST 2i5 range. Locking device → **

**EIB connection cable**

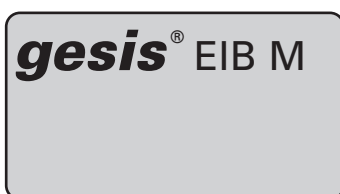
male – female
For connection of EIB sensors. See BST 14i2 range

**Length**

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

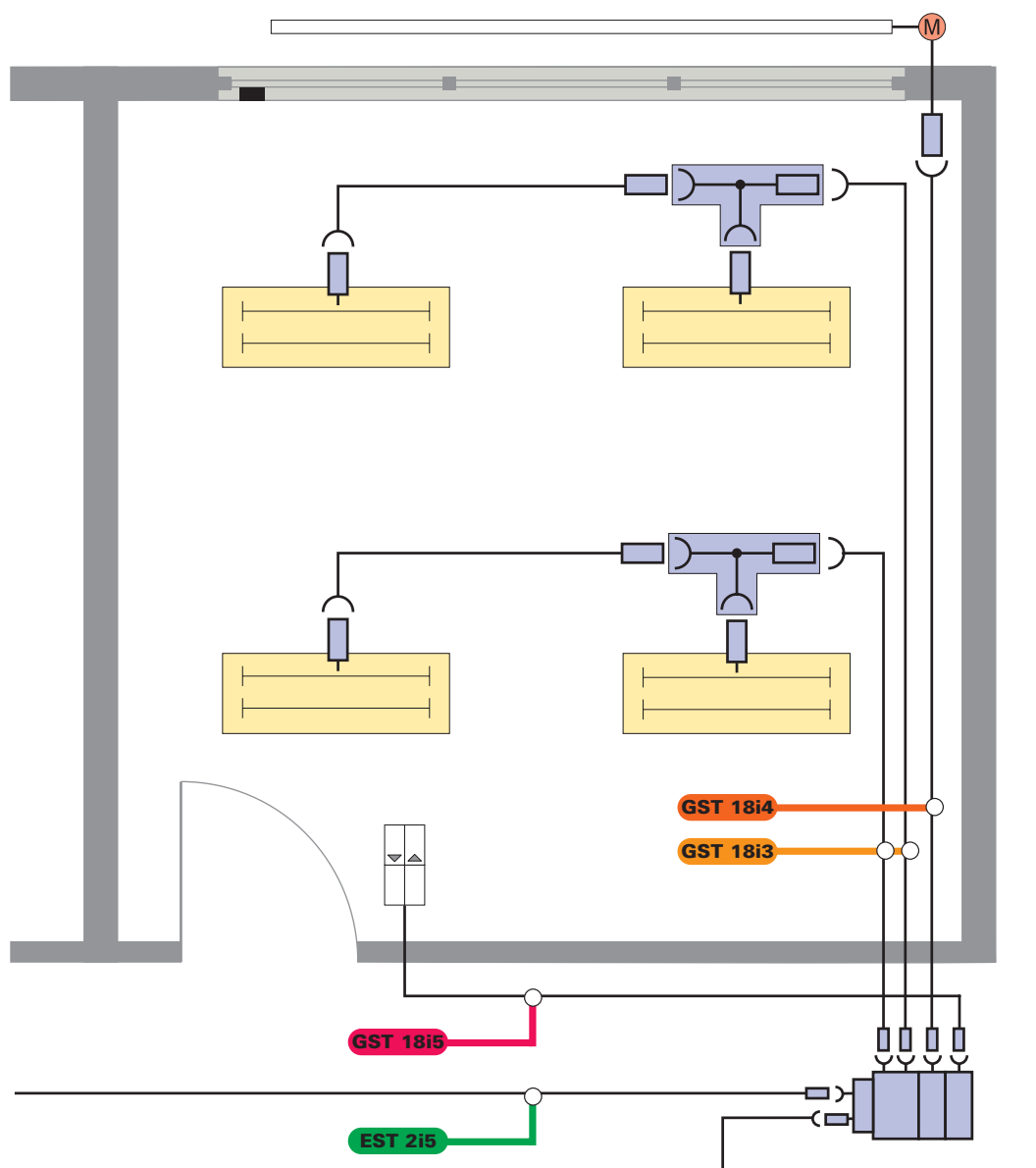
94.553.1000.7 20
94.553.2000.7 10
94.553.3000.7 8
94.553.4000.7 5
94.553.5000.7 5
94.553.6000.7 4
94.553.7000.7 4
94.553.8000.7 3

94.425.1000.7 100
94.425.2000.7 50
94.425.3000.7 30
94.425.4000.7 30
94.425.5000.7 30
94.425.6000.7 25
94.425.7000.7 25
94.425.8000.7 20



Supply and
distribution

Inputs & outputs

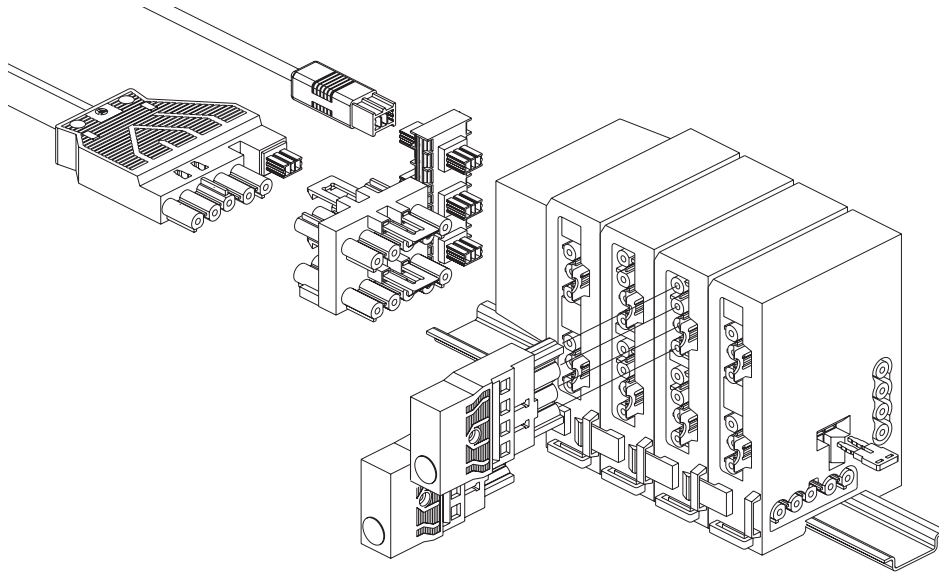


Office application

- ☐ two switched lighting circuits
- ☐ one shutter
- ☐ conventional push button

Solution with **gesis®** EIB M

- ☐ **gesis®** EIB M basic module with two outputs
- ☐ **gesis®** EIB M shutter extension module
- ☐ **gesis®** EIB M Input extension module



Adaptability creates flexibility

Based on contemporary technical demands, the **gesis** EIB M range of switching devices can be quickly and reliably adapted to various requirements. The corresponding devices are selected from the assortment of input, output and shutter output modules according to the required application and connected together with the basic module to form an EIB unit.

gesis® EIB M offers:

- ☐ distributed installation
- ☐ Connectivity
- ☐ EIB compliant
- ☐ Modular design

Your benefit:

Less cabling required
Smaller distribution boards

Time saved during assembly
Error-free installation
Flexibility of changes of usage

Interoperability with all EIB devices of all manufacturers
Versatile use due to comprehensive application
All benefits of installation bus systems available

Module can be adapted as necessary
One physical address for a wide variety of requirements

gesis® EIB M **Basic module**

EIB Interface
2 fold switch output

Supply and distribution

Outputs

GST 18i3



Brief description:

The basic module from the **gesis** EIB M range represents the interface between the **gesis** EIB M extension modules and the mains/EIB supply. In addition, the basic module has two integrated outputs. A total of 5 module addresses of extension modules from the **gesis** EIB M range can be managed with the basic module. The electrical connections are only carried out with plug-in connections. The module range thus combines the benefits of EIB with the benefits of connectable electrical installation. The extension modules automatically make contact with the mains voltage and the internal bus when connected in parallel.

Spring-loaded connection

Male connector for connection of the switch outputs
See GST 18i3 range, black



92.934.0053.1 50

Part No. Box Qty

Connection cable

male – free end
For connection of the switch outputs
See GST 18i3 range, black



Length

1.0 m	92.232.1004.1	75
2.0 m	92.232.2004.1	50
3.0 m	92.232.3004.1	25
4.0 m	92.232.4004.1	25
5.0 m	92.232.5004.1	20
6.0 m	92.232.6004.1	10
7.0 m	92.232.7004.1	10
8.0 m	92.232.8004.1	10

Part No. Box Qty

Extension cable

male – female
For connection of the switch outputs
See GST 18i3 range, black



Length

1.0 m	92.232.1000.1	75
2.0 m	92.232.2000.1	40
3.0 m	92.232.3000.1	25
4.0 m	92.232.4000.1	25
5.0 m	92.232.5000.1	20
6.0 m	92.232.6000.1	10
7.0 m	92.232.7000.1	10
8.0 m	92.232.8000.1	10

Type:
Part number:

gesis EIB M-BAS
83.020.1000.0

Incoming supply:

Power supply
Connection

230/400 V~, 50..60 Hz, max. 16 A; EIB
Connectors of EST 2i5 range

Data Outputs:

Number
Connection

2
Connectors of GST 18i3 range black

Nominal voltage
Max. switching current

230 V AC
16 A resistive load

Software:

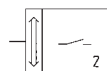
ETS Version
Product database
Part number
Internet
Functions

ETS2 V1.1 and above
00.000.0066.1
www.gesis.com
See "Technical data"

General data:

Module addresses required
Type of installation
Type of protection
Housing
Length/width/height
height incl. combination
distribution block
EIB Symbol

1
Surface mounted. DIN rail mounted
IP20
halogen free, lightgrey RAL 7035
62 / 80 / 120 mm



Further data and mounting set:

See "Technical data"

Function	Pole designation Male connector	Colour of core Connection cable	External terminal device
N	N	blue	
PE	⊕	green/yellow	
Output A	L	brown	
N	N	blue	
PE	⊕	green/yellow	
Output B	L	brown	

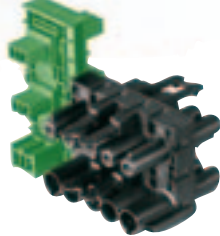
* Locking device 05.590.4556.1 is required for latching into the module and must be ordered separately

** Locking device 05.587.3156.1 is required for latching into the module and must be ordered separately



Combination distribution block

for distribution of the power supply
See EST 2i5 range



93.550.0053.1 25

Combination connector

Female connector for incoming supply. See EST 2i5 range
Locking device → **



93.551.0553.1 50

EIB spring-loaded connection

Male connectors for connection of EIB sensors
See BST 14i2 range



93.422.0553.1 50

Part No. Box Qty

Part No. Box Qty

Part No. Box Qty

Combination starter cable

female – free end
for supply of initial connection
See EST 2i5 range
Locking device → **



EIB connection cable

male – free end
For connection of EIB-Sensors
See BST 14i2 range



Length

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

94.553.1003.7 20
94.553.2003.7 10
94.553.3003.7 8
94.553.4003.7 5
94.553.5003.7 5
94.553.6003.7 4
94.553.7003.7 4
94.553.8003.7 3

94.425.1004.7 100
94.425.2004.7 50
94.425.3004.7 30
94.425.4004.7 30
94.425.5004.7 30
94.425.6004.7 25
94.425.7004.7 25
94.425.8004.7 20

Part No. Box Qty

Part No. Box Qty

Combination extension cable

female – male
for interconnection of devices
See EST 2i5 range
Locking device → **



EIB extension cable

male – female
For connection of EIB-Sensors
See BST 14i2 range



Length

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

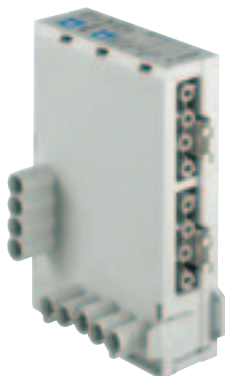
94.553.1000.7 20
94.553.2000.7 10
94.553.3000.7 8
94.553.4000.7 5
94.553.5000.7 5
94.553.6000.7 4
94.553.7000.7 4
94.553.8000.7 3

94.425.1000.7 100
94.425.2000.7 50
94.425.3000.7 30
94.425.4000.7 30
94.425.5000.7 30
94.425.6000.7 25
94.425.7000.7 25
94.425.8000.7 20

gesis® EIB M
Extension module
2x2 fold input 230V AC

Inputs

GST 18i4



Brief description:

The extension module from the **gesis EIB M** range can manage four inputs with a nominal voltage of 230 V. The control voltage is made available by the module. Operation is only possible in connection with a basic module from the **gesis EIB M** range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The operating modes of pulse edge, push button, shutter sensor or dimming sensor evaluation are available for the inputs.

Spring-loaded connection

Male connector for connection of the inputs. See GST 18i4 range, pebble grey



92.944.0153.0 50

Part No. Box Qty

Connection lead

male – free end
 For connection of the inputs
 See GST 18i4 range pebble grey



Length

1.0 m	92.207.1004.3	50
2.0 m	92.207.2004.3	25
3.0 m	92.207.3004.3	20
4.0 m	92.207.4004.3	15
5.0 m	92.207.5004.3	10
6.0 m	92.207.6004.3	10
7.0 m	92.207.7004.3	5
8.0 m	92.207.8004.3	5

Part No. Box Qty

Extender lead

male – female
 For connection of the inputs
 See GST 18i4 range, pebble grey



Length

1.0 m	92.207.1000.3	50
2.0 m	92.207.2000.3	25
3.0 m	92.207.3000.3	20
4.0 m	92.207.4000.3	15
5.0 m	92.207.5000.3	10
6.0 m	92.207.6000.3	10
7.0 m	92.207.7000.3	5
8.0 m	92.207.8000.3	5

Type:
 Part number:

gesis EIB M-2x2/0
 83.020.1001.0

Incoming supply:

via a series-connected basic or extension module

Input data:

Number
 Connection

4
 Connectors of GST 18i4 range
 pebble grey
 230 V AC
 100 m
 max. 5 mA

Nominal voltage
 max. Cable length
 Neon lamp load

Software:

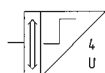
ETS Version
 Product database
 Part number
 Internet
 Functions

ETS2 V1.1 and above
 00.000.0066.1
 www.gesis.com
 See "Technical data"

General data:

Module addresses required
 Type of installation
 Type of protection
 Housing
 Length when connected / width / height (inclusive of DIN rail) distribution block
 EIB Symbol

2 (1 per group of two)
 Surface mounted, DIN rail mounted
 IP20
 halogen free, lightgrey RAL 7035
 31 / 80 / 120 mm



Operation on:

gesis EIB M-BAS
 gesis EIB M2-BAS

yes
 yes

Further data:

See "Technical data"

Function	Pole designation Male connectors	Colour of core Connection cable	External terminal device
Input S1A	2	brown	
Input S1B	N	blue	
PE	⊕	green/yellow	
L	1	black	
Input S2A	2	brown	
Input S2B	N	blue	
PE	⊕	green/yellow	
L	1	black	

gesis® EIB M
Extension module
2x2 fold input 24V DC

Inputs

GST 18i5
(Special coding)



Brief description:

The extension module from the **gesis EIB M** range can manage four inputs with a nominal voltage of 24 V DC. The control voltage is made available by the module and an external power supply is therefore not required. Operation is only possible in connection with a basic module from the **gesis EIB M** range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The operating modes of pulse edge, push button, shutter sensor or dimming sensor evaluation are available for the inputs.



Screw connection

Male connector for connection of the inputs. Colour light blue



92.954.3353.0 50

Screw connection

Female connector for further connection of the inputs. Colour light blue



92.953.3353.0 50

Type:
Part number:
Incoming supply:

gesis EIB M-2x2/0 (24)
83.020.1002.0
via a series connected basic or extension module

Input data:
Number
Connection
Nominal voltage
max. Cable length
Field current

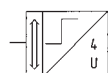
4
Connectors of GST 18i5 range, light blue
24 V DC
100 m
max. 5 mA

Software:
ETS Version
Product database
Part number
Internet
Functions

ETS2 V1.1 and above
00.000.0066.1
www.gesis.com
See "Technical data"

General data:
Module addresses required
Type of installation
Type of protection
Housing
Length when connected / width / height (inclusive of DIN rail)
EIB Symbol

2 (1 per group of two)
Surface mounted, DIN rail mounted
IP20
halogen free, lightgrey RAL 7035
31 / 80 / 120 mm



Operation on:
gesis EIB M-BAS
gesis EIB M2-BAS

yes
yes

Further data:

See "Technical data"

Function	Pole designation	Colour of core	External terminal device
	Male connector	Connection cable	
Input S1A	5	black 1	
Input S1B	4	black 2	
24 V DC	3	black 3	
Input S2A	2	black 4	
Input S2B	1	black 5	

Length

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

Connection lead

5 x 0.75 mm²
male – free end
For connection of the input. Colour light blue.



on request

Part No. Box Qty

Extender lead

5 x 0.75 mm²
male – female
For connection of the inputs. Colour light blue.



on request

Length

1.0 m
2.0 m
3.0 m
4.0 m
5.0 m
6.0 m
7.0 m
8.0 m

EIB

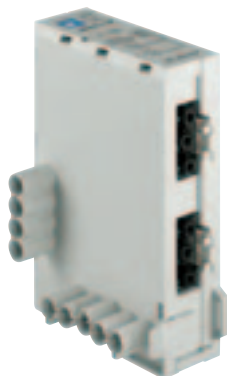
gesis[®] EIB M

Extension module

2 fold switch output

Outputs

GST 18i3



Brief description:

The extension module has two independent switch outputs. Operation is only possible in connection with a basic module from the **gesis EIB M** range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The parameters "Behaviour on bus voltage failure/recovery", "Normal and time switch operating modes" and "Evaluation of disable object" are available for the outputs.

Spring loaded connection

Male connectors for connection of the switch outputs
See GST 18i3 range, black



92.934.0053.1 50

Part No. Box Qty

Connection lead

male – free end
For the connection of the switch outputs
See GST 18i3 range black



Length

1.0 m	92.232.1004.1	75
2.0 m	92.232.2004.1	50
3.0 m	92.232.3004.1	25
4.0 m	92.232.4004.1	25
5.0 m	92.232.5004.1	20
6.0 m	92.232.6004.1	10
7.0 m	92.232.7004.1	10
8.0 m	92.232.8004.1	10

Part No. Box Qty

Extender lead

male – female
For the connection of the switch outputs. See GST 18i3 range, black



Length

1.0 m	92.232.1000.1	75
2.0 m	92.232.2000.1	40
3.0 m	92.232.3000.1	25
4.0 m	92.232.4000.1	25
5.0 m	92.232.5000.1	20
6.0 m	92.232.6000.1	10
7.0 m	92.232.7000.1	10
8.0 m	92.232.8000.1	10

Type:
Part number:

gesis EIB M-0/2
83.020.1003.0

Incoming supply:

via a series-connected basic or extension module

Output data:

Number
Connection

2
Connectors of GST 18i3 range, black

Nominal voltage
Max. switching current

230 V AC
16 A resistive load
High switching capacity

Software:

ETS Version
Product database
Part number
Internet
Functions

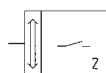
ETS2 V1.1 and above

00.000.0066.1
www.gesis.com
See "Technical data"

General data:

Module addresses required
Type of installation
Type of protection
Housing
Length when connected / width / height incl. DIN rail
EIB Symbol

1
Surface mounted, DIN rail mounted
IP20
halogen free, lightgrey RAL 7035
31 / 80 / 120 mm



Operation on:

gesis EIB M-BAS
gesis EIB M2-BAS

yes
yes

Further data:

See "Technical data"

Function	Pole designation Male connector	Colour of core Connection cable	External terminal device
N PE Output A	N ⊕ L	blue green/yellow brown	
N PE Output B	N ⊕ L	blue green/yellow brown	

gesis® EIB M
Extension module
1x2 fold shutter output

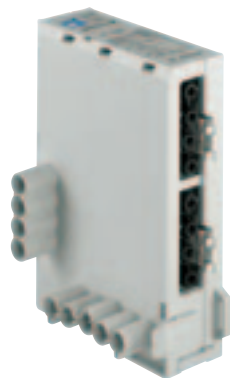
Outputs

GST 18i4



Brief description:

The extension module has two shutter outputs which operate in parallel. The outputs are isolated and enable the connection of two shutter motors. Operation is only possible in connection with a basic module from the **gesis EIB M** range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The parameters for setting the "Travel time", "Louvre adjustment period", "Pause on reverse", "Direction of rotation", "Behaviour on bus voltage failure", "Behaviour in event of an alarm" and "Evaluation of disable object" are available for the shutter outputs.



Spring loaded connection

(0.75 – 1.5 mm²)

Male connector for connection of the shutter outputs. See GST 18i4 range, black



92.944.1053.1 50

Part No. Box Qty

Connection lead

male – free end
 For connection of the shutter outputs
 See GST 18i4 range, black



Type:
 Part number:
Incoming supply:
Output data:
 Number
 Connection
 Nominal voltage
 Max. switching current

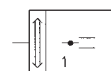
gesis EIB M-0/1Wx2
 83.020.1004.0
 via a series-connected basic or extension module

Software:
 ETS Version
 Product database
 Part number
 Internet
 Functions

ETS2 V1.1 and above
 00.000.0066.1
 www.gesis.com
 See "Technical Data"

General data:
 Module addresses required
 Type of installation
 Type of protection
 Housing
 Length when connected / width / height (incl. DIN rail) distribution block
 EIB Symbol

1
 Surface mounted, DIN rail mounted
 IP20
 halogen free, lightgrey RAL 7035
 31 / 80 / 120 mm



Operation on:
 gesis EIB M-BAS
 gesis EIB M2-BAS

yes
 yes

Further data:
 See "Technical data"

Length

1.0 m	92.207.1004.1	50
2.0 m	92.207.2004.1	25
3.0 m	92.207.3004.1	20
4.0 m	92.207.4004.1	15
5.0 m	92.207.5004.1	10
6.0 m	92.207.6004.1	10
7.0 m	92.207.7004.1	5
8.0 m	92.207.8004.1	5

Part No. Box Qty

Extender lead

male – female
 For connection of the shutter outputs.
 See GST 18i4 range



Length

1.0 m	92.207.1000.1	50
2.0 m	92.207.2000.1	25
3.0 m	92.207.3000.1	20
4.0 m	92.207.4000.1	15
5.0 m	92.207.5000.1	10
6.0 m	92.207.6000.1	10
7.0 m	92.207.7000.1	5
8.0 m	92.207.8000.1	5

Function	Pole designation Male connector	Colour of core Connection cable	External terminal Device
Motor 1 a. 2 down 2		brown	
N	N	blue	
PE	⊕	green/yellow	
Motor 1 a. 2 up 1	1	black	
Motor 1 a. 2 down 2		brown	
N	N	blue	
PE	⊕	green/yellow	
Motor 1 a. 2 up 1	1	black	

EIB

gesis® EIB M **Extension module**

2 fold switch output

Outputs

GST 18i3



Brief description:

The extension module has two independent switch outputs.
Operation is only possible in connection with a basic module from the **gesis EIB M** range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The parameters "Behaviour on bus voltage failure/recovery", "Normal and time switch operating modes" and "Evaluation of disable object" are available for the outputs.

Spring loaded connection

Male connector for connection of the switch outputs. See GST 18i3 range, black



92.934.0053.1 50

Part No. Box Qty

Connection lead

male – free end
for connection of the switch outputs
See GST 18i3 range, black



Length

1.0 m	92.232.1004.1	75
2.0 m	92.232.2004.1	50
3.0 m	92.232.3004.1	25
4.0 m	92.232.4004.1	25
5.0 m	92.232.5004.1	20
6.0 m	92.232.6004.1	10
7.0 m	92.232.7004.1	10
8.0 m	92.232.8004.1	10

Part No. Box Qty

Extender lead

male – female
For connection of the switch outputs.
See GST 18i3 range, black



Length

1.0 m	92.232.1000.1	75
2.0 m	92.232.2000.1	40
3.0 m	92.232.3000.1	25
4.0 m	92.232.4000.1	25
5.0 m	92.232.5000.1	20
6.0 m	92.232.6000.1	10
7.0 m	92.232.7000.1	10
8.0 m	92.232.8000.1	10

Type:
Part number:

gesis EIB M-0/2B
83.020.1005.0

Incoming supply:

via a series-connected basic or extension module

Output data:

Number
Connection

2
Connectors of GST 18i3 range, black

Nominal voltage
Max. switching current

230 V AC
16 A resistive load
Low switching capacity, not short-circuit proof

Software:

ETS Version
Product database
Part number
Internet
Functions

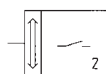
ETS2 V1.1 and above

00.000.0066.1
www.gesis.com
See "Technical data"

General data:

Module addresses required
Type of installation
Type of protection
Housing
Length when connected / width / height
(incl. of DIN rail)
EIB Symbol

1
Surface mounted, DIN rail mounted
IP20
halogen free, lightgrey RAL 7035
31 / 80 / 120 mm



Operation on:

gesis EIB M-BAS
gesis EIB M2-BAS

yes
yes

Further data:

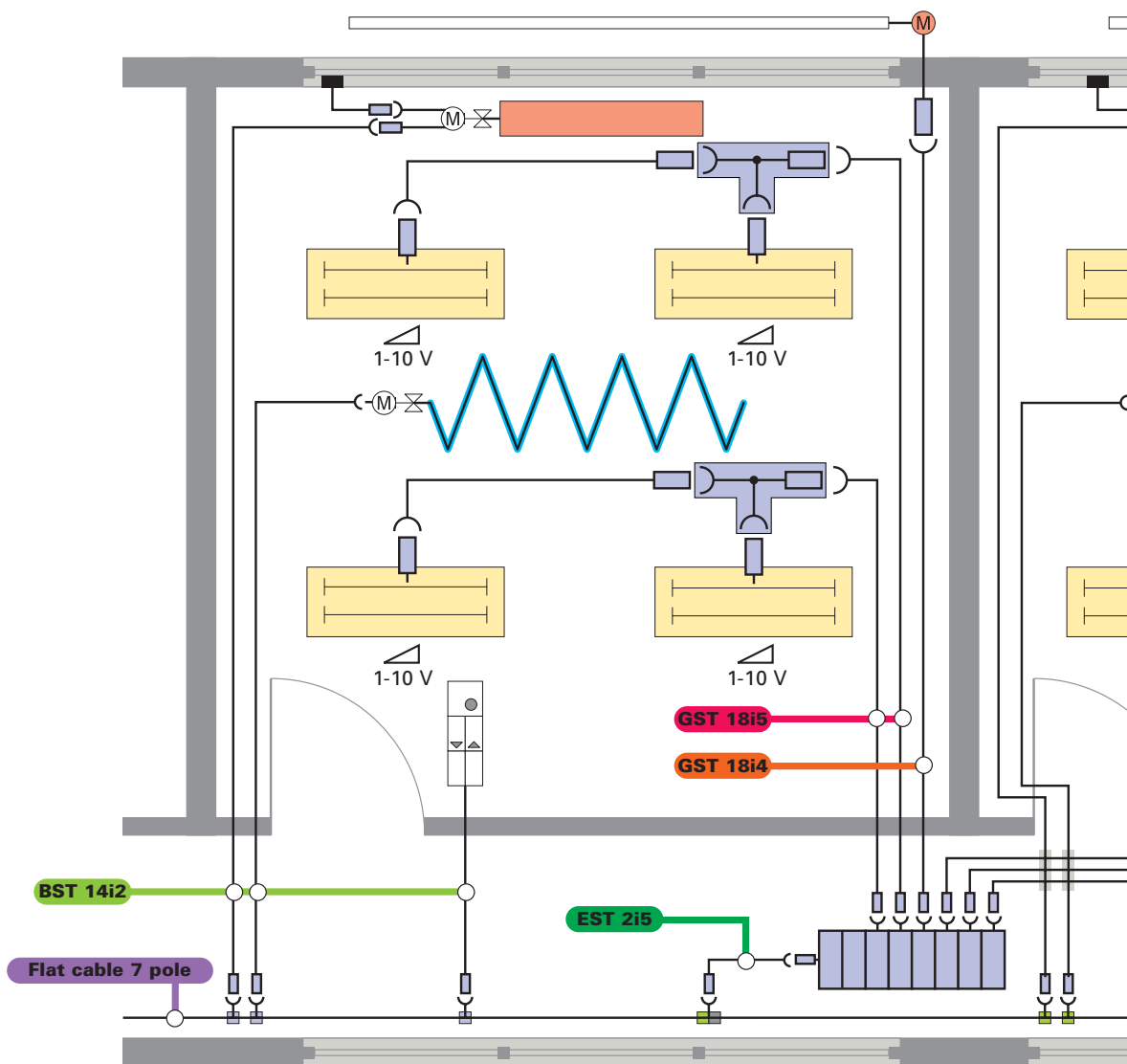
See "Technical data"

Function	Pole designation Male connector	Colour of core Connection cable	External terminal device
N PE Output A	N ⊕ L	blue green/yellow brown	
N PE Output B	N ⊕ L	blue green/yellow brown	

gesis® EIB M2

Supply and
distribution

Inputs and outputs

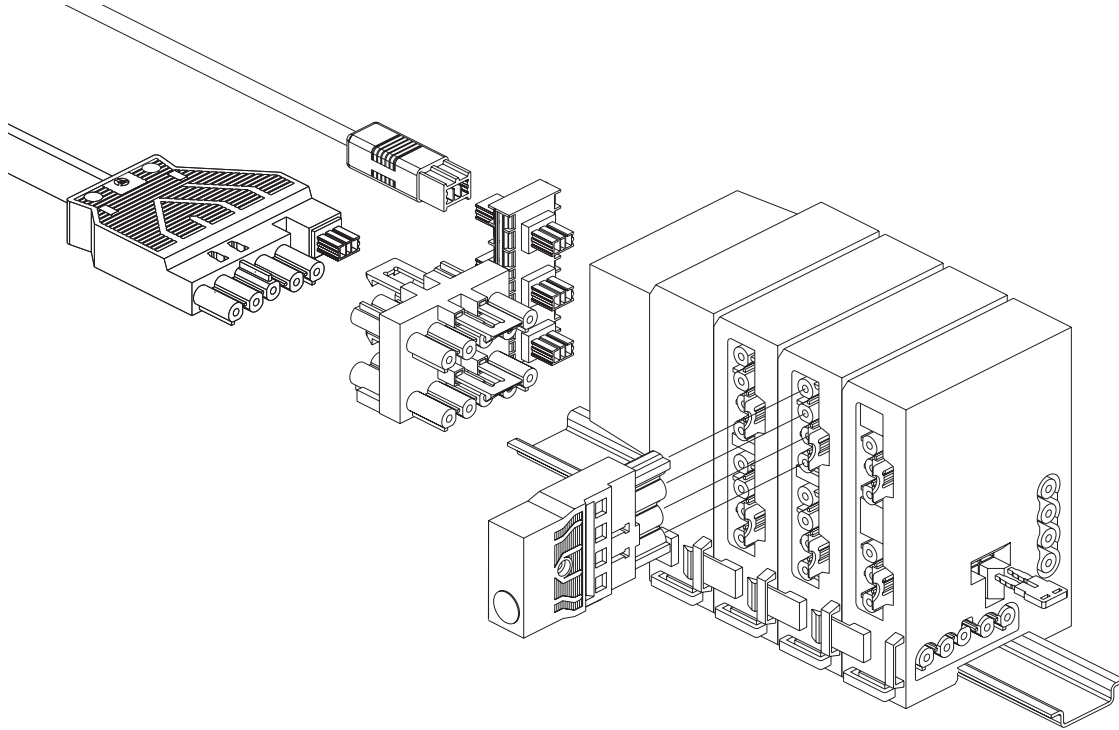


Application with two offices

- ☐ two switched lighting circuits per room
- ☐ one shutter per room
- ☐ conventional push buttons

Solution with **gesis®** EIB M2

- one **gesis®** EIB M2 basic module
- two **gesis®** EIB M2 load shutter extension
- two **gesis®** EIB M2 shutter extension modules
- two **gesis®** EIB M2 input extension modules



Adaptability creates flexibility

Based on contemporary technical demands, the **gesis** EIB M2 range of switching devices can be quickly and reliably adapted to various requirements. The corresponding devices are selected from the assortment of input, switch output, shutter output and switch/dimming modules according to the required application and connected together with the basic module to form an EIB unit.

gesis® EIB M2 offers:

- ☐ Even more extension modules than **gesis** EIB M2
- ☐ Distributed installation
- ☐ Connectivity
- ☐ EIB compliant
- ☐ Modular design

Your benefit:

Switch/dimming groups can now also be controlled
More extension modules per basic module

Less cabling required
Smaller distribution boards

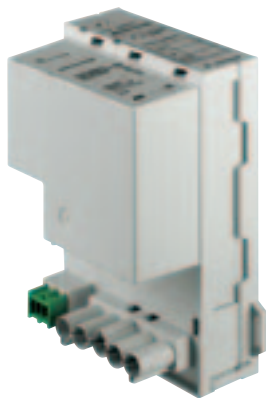
Time saved during assembly
Error-free installation
Flexibility for changes of usage

Interoperability with all EIB devices of all manufacturers
Versatile use due to comprehensive application
All benefits of installation bus systems available

Module can be adapted as necessary
One physical address for a wide variety of requirements

gesis® EIB M2
Basic module
EIB interface

Supply and distribution



Brief description:

The basic module from the **gesis** EIB M2 range represents the interface between the **gesis** extension modules and the mains/EIB supply. A total of 6 extension modules from the **gesis** EIB M2 range can be managed with the basic module. The electrical connections are only carried out with plug-in connections. The module range thus combines the benefits of EIB with the benefits of connectable electrical installation. The extension modules automatically make contact with the mains voltage and the internal bus when connected in parallel.

Type:
 Part number:

gesis EIB M2-BAS
 83.020.1020.0

Incoming supply:

Power supply
 Connection

230/400 V~, 50..60 Hz, max. 16 A; EIB
 connectors of EST2i5 range

Software:

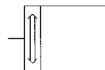
ETS Version
 Product database
 Part number
 Internet
 Functions

ETS2 V1.1 and above
 00.000.0066.1
 www.gesis.com
 See "Technical data"

General data:

Type of installation
 Type of protection
 Housing
 Length/width/height
 (inclusive of DIN rail)
 EIB Symbol

Surface mounted, DIN rail mounted
 IP20
 halogen free, lightgrey RAL 7035
 62 / 80 / 120 mm



Further data and mounting set:

See "Technical data"

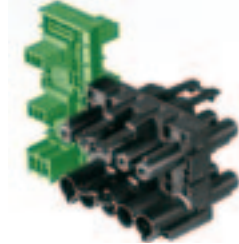
* Locking device 05.590.4556.1 is required for latching into the module and must be ordered separately

** Locking device 05.587.3156.1 is required for latching into the module and must be ordered separately



Combination distribution block

For distribution of the power supply
See EST 2i5 range



93.550.0053.1 25

Part No. Box Qty

Combination connector

Female connector component for incoming supply.
See EST 2i5 range.
Locking device → **



93.551.0553.1 50

Part No. Box Qty

EIB spring loaded connection

Male connector for connection of EIB sensors
See BST 14i2 range



93.422.0553.1 50

Part No. Box Qty

Combination starter lead

female – free end
For supply of initial connection.
See EST 2i5 range Locking device → **



Length

EIB connection lead

male – free end
For connection of EIB-Sensors
See BST 14i2 range



1.0 m	94.553.1003.7	20	94.425.1004.7	100
2.0 m	94.553.2003.7	10	94.425.2004.7	50
3.0 m	94.553.3003.7	8	94.425.3004.7	30
4.0 m	94.553.4003.7	5	94.425.4004.7	30
5.0 m	94.553.5003.7	5	94.425.5004.7	30
6.0 m	94.553.6003.7	4	94.425.6004.7	25
7.0 m	94.553.7003.7	4	94.425.7004.7	25
8.0 m	94.553.8003.7	3	94.425.8004.7	20

Part No. Box Qty

Part No. Box Qty

Combination extender lead

female – male
for interconnection of devices.
See EST 2i5 range
Locking device → **



Length

EIB extender lead

male – female
For connection of EIB sensors
See BST 14i2 range

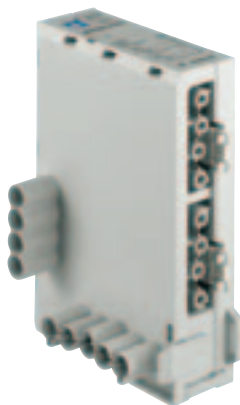


1.0 m	94.553.1000.7	20	94.425.1000.7	100
2.0 m	94.553.2000.7	10	94.425.2000.7	50
3.0 m	94.553.3000.7	8	94.425.3000.7	30
4.0 m	94.553.4000.7	5	94.425.4000.7	30
5.0 m	94.553.5000.7	5	94.425.5000.7	30
6.0 m	94.553.6000.7	4	94.425.6000.7	25
7.0 m	94.553.7000.7	4	94.425.7000.7	25
8.0 m	94.553.8000.7	3	94.425.8000.7	20

gesis® EIB M2
Extension module
4 fold Input 230V AC

Inputs

GST 18i4



Brief description:

The extension module from the **gesis** EIB M2 range can manage four inputs with a nominal voltage of 230 V AC. The control voltage is made available by the module.

Operation is only possible in connection with a basic module from the **gesis** EIB M2 range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The operating modes of pulse edge, push button, shutter sensor or dimming sensor evaluation are available for the inputs.

Spring-loaded connection

Male connector
 for connection of the inputs
 See GST 18i4 range, pebble grey



92.944.0153.0 50

Part No. Box Qty

Connection lead

male – free end
 For connection of the inputs
 See GST 18i4 range pebble grey



Length

1.0 m	92.207.1004.3	50
2.0 m	92.207.2004.3	25
3.0 m	92.207.3004.3	20
4.0 m	92.207.4004.3	15
5.0 m	92.207.5004.3	10
6.0 m	92.207.6004.3	10
7.0 m	92.207.7004.3	5
8.0 m	92.207.8004.3	5

Part No. Box Qty

Extender lead

male – female
 For connection of the inputs.
 See GST 18i4 range, pebble grey



Length

1.0 m	92.207.1000.3	50
2.0 m	92.207.2000.3	25
3.0 m	92.207.3000.3	20
4.0 m	92.207.4000.3	15
5.0 m	92.207.5000.3	10
6.0 m	92.207.6000.3	10
7.0 m	92.207.7000.3	5
8.0 m	92.207.8000.3	5

Type:
 Part number:

gesis EIB M2-4/0
 83.020.1021.0

Incoming supply:

via a series connected basic or extension module

Incoming data:

Number
 Connection

4
 Connectors of GST 18i4 range,
 pebble grey
 230 V AC
 100 m
 max. 5 mA

Nominal voltage
 max. Cable length
 Neon lamp load

Software:

ETS version
 Product database
 Part number
 Internet
 Functions

ETS2 V1.1 and above
 00.000.0066.1
 www.gesis.com
 See "Technical data"

General data:

Module addresses required
 Type of installation
 Type of protection
 Housing
 Length when connected / width /
 height incl. DIN rail
 EIB Symbol

1
 Surface-mounted, DIN rail mounted
 IP20
 halogen free, lightgrey RAL 7035
 31 / 80 / 120 mm



Operation on:

gesis EIB M-BAS
 gesis EIB M2-BAS

no
 yes

Further data:

See "Technical data"

Function	Pole designation Male connector	Colour of core Connection cable	External terminal device
Input A	2	brown	
Input B	N	blue	
PE	⊕	green/yellow	
L	1	black	
Input C	2	brown	
Input D	N	blue	
PE	⊕	green/yellow	
L	1	black	

gesis® EIB M2
Extension module
4 fold Input 24V DC

Inputs

GST 18i5
(Special coding)



Brief description:

The extension module from the **gesis EIB M2** range can manage four inputs with a nominal voltage of 24 V DC. The control voltage is made available by the module and an external power supply is therefore not required. Operation is only possible in connection with a basic module from the **gesis EIB M2** range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The operating modes of pulse edge, push button, shutter sensor or dimming sensor evaluation are available for the inputs.



Screw connection

Male connector for connection of the inputs, light blue



92.954.3353.0 50

Screw connection

Female connector for further connection of the inputs, light blue



92.953.3353.0 50

Type:
Part number:

Incoming supply:

Input data:
Number
Connection

Nominal voltage
max. Cable length
Field current

Software:
ETS Version
Product database
Part number
Internet
Functions

General data:
Module addresses required
Type of installation
Type of protection
Housing
Length when connected / width /
height inclusive DIN rail
EIB Symbol

Operation on:
gesis EIB M-BAS
gesis EIB M2-BAS

Further data:

gesis EIB M2-4/0 (24)
83.020.1022.0

via a series-connected basic or
extension module

4
Connectors of GST 18i5 range,
light blue
24 V DC
100 m
max. 5 mA

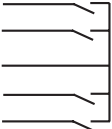
ETS2 V1.1 and above

00.000.0066.1
www.gesis.com
See "Technical data"

1
Surface mounted, DIN rail mounted
IP20
halogen free, lightgrey RAL 7035
31 / 80 / 120 mm

no
yes

See "Technical data"

Function	Pole designation Male connector	Colour of core Connection cable	External terminal Device
Input A	5	black 1	
Input B	4	black 2	
24 V DC	3	black 3	
Input C	2	black 4	
Input D	1	black 5	

Connection lead

male – free end
for connection of the inputs,
light blue



on request

Part No. Box Qty

Extender lead

male – female
for connection of the inputs,
light blue



on request

Length

- 1.0 m
- 2.0 m
- 3.0 m
- 4.0 m
- 5.0 m
- 6.0 m
- 7.0 m
- 8.0 m

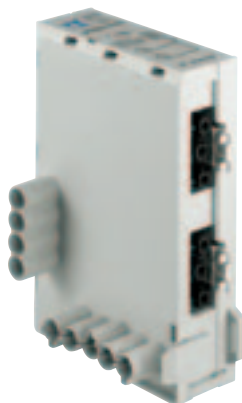
Length

- 1.0 m
- 2.0 m
- 3.0 m
- 4.0 m
- 5.0 m
- 6.0 m
- 7.0 m
- 8.0 m

gesis® EIB M2
Extension module
2 fold switch output

Outputs

GST 18i3



Brief description:

The extension module has two independent switch outputs. Operation is only possible in connection with a basic module from the **gesis EIB M2** range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The parameters "Behaviour on bus voltage failure/recovery", "Normal and time switch operating modes" and "Evaluation of disable object" are available for the outputs.

Spring-loaded connection

Male connector for connection of the switch outputs. See GST 18i3 range, black



92.934.0053.1 50

Part No. Box Qty

Connection lead

male – free end
 For connection of the switch outputs
 See GST 18i3 range, black



Length

1.0 m	92.232.1004.1	75
2.0 m	92.232.2004.1	50
3.0 m	92.232.3004.1	25
4.0 m	92.232.4004.1	25
5.0 m	92.232.5004.1	20
6.0 m	92.232.6004.1	10
7.0 m	92.232.7004.1	10
8.0 m	92.232.8004.1	10

Part No. Box Qty

Extender lead

male – female
 For connection of the switch outputs
 See GST 18i3 range, black



Length

1.0 m	92.232.1000.1	75
2.0 m	92.232.2000.1	40
3.0 m	92.232.3000.1	25
4.0 m	92.232.4000.1	25
5.0 m	92.232.5000.1	20
6.0 m	92.232.6000.1	10
7.0 m	92.232.7000.1	10
8.0 m	92.232.8000.1	10

Type:
 Part number:

gesis EIB M2-0/2
 83.020.1023.0

Incoming supply:

via a series connected basic or extension module

Output data:

Number
 Connection

2
 Connectors of GST 18i3 range, black

Nominal voltage
 Max. switching current

230 V AC
 16 A resistive load
 High switching capacity

Software:

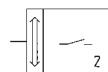
ETS Version
 Product database
 Part number
 Internet
 Functions

ETS2 V1.1 and above
 00.000.0066.1
 www.gesis.com
 See "Technical data"

General data:

Module addresses required
 Type of installation
 Type of protection
 Housing
 Length when connected / width / height incl. DIN rail terminal
 EIB Symbol

1
 Surface mounted, IDC DIN rail
 IP20
 halogen free, lightgrey RAL 7035
 31 / 80 / 120 mm



Operation on:

gesis EIB M-BAS
 gesis EIB M2-BAS

yes, without status feedback
 yes

Further data:

See "Technical data"

Function	Pole designation	Colour of core	External terminal device
	Male connector	Connection cable	
N	N	blue	
PE	⊕	green/yellow	
Output A	L	brown	
N	N	blue	
PE	⊕	green/yellow	
Output B	L	brown	

gesis® EIB M2

Extension module

1x2 fold shutter output

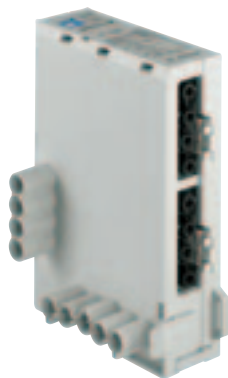
Outputs

GST 18i4



Brief description:

The extension module has two shutter outputs which operate in parallel. The outputs are isolated and enable the connection of two shutter motors. Operation is only possible in connection with a basic module from the **gesis EIB M2** range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The parameters for setting the "Travel time", "Louvre adjustment period", "Pause on reverse", "Direction of rotation", "Behaviour on bus voltage failure", "Behaviour in event of an alarm" and "Evaluation of disable object" are available for the shutter outputs.

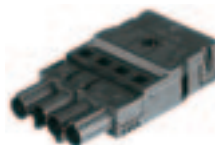


Spring-loaded connection

(0.75 – 1.5 mm²)

Male connector for connection of the shutter outputs.

See GST 18i4 range, black



92.944.1053.1 50

Part No. Box Qty

Connection lead

male – free end
for connection of the shutter outputs.
See GST 18i4 range, black



Length

1.0 m	92.207.1004.1	50
2.0 m	92.207.2004.1	25
3.0 m	92.207.3004.1	20
4.0 m	92.207.4004.1	15
5.0 m	92.207.5004.1	10
6.0 m	92.207.6004.1	10
7.0 m	92.207.7004.1	5
8.0 m	92.207.8004.1	5

Part No. Box Qty

Extender lead

male – female
for connection of the shutter outputs.
See GST 18i4 range, black



Length

1.0 m	92.207.1000.1	50
2.0 m	92.207.2000.1	25
3.0 m	92.207.3000.1	20
4.0 m	92.207.4000.1	15
5.0 m	92.207.5000.1	10
6.0 m	92.207.6000.1	10
7.0 m	92.207.7000.1	5
8.0 m	92.207.8000.1	5

Type:
Part number:

gesis EIB M2-0/1Wx2
83.020.1024.0

Incoming supply:

via a series-connected basic or extension module

Output data:

Number
Connection

Nominal voltage
Max. switching current

2 operating in parallel
Connectors of GST 18i4 range, black
230 V AC
8 A resistive load

Software:

ETS Version
Product database
Part number
Internet
Functions

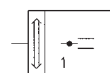
ETS2 V1.1 and above

00.000.0066.1
www.gesis.com
See "Technical data"

General data:

Module addresses required
Type of installation
Type of protection
Housing
Length when connected / width / height incl. DIN rail

1
Surface mounted DIN rail mounted
IP20
halogen free, lightgrey RAL 7035
31 / 80 / 120 mm



EIB Symbol

Operation on:

gesis EIB M-BAS

gesis EIB M2-BAS

yes, without fanning out after DOWN command
yes

Further data:

See "Technical data"

Function	Pole designation Male connector	Colour of core Connection cable	External terminal device
Motor 1 u. 2 down 2		brown	
N	N	blue	
PE	⊕	green/yellow	
Motor 1 u. 2 up 1		black	
Motor 1 u. 2 down 2		brown	
N	N	blue	
PE	⊕	green/yellow	
Motor 1 u. 2 up 1		black	

EIB

gesis® EIB M2
Extension module
2 fold switch output

Outputs

GST 18i3



Brief description:

The extension module has two independent switch outputs. Operation is only possible in connection with a basic module from the **gesis** EIB M2 range. The electrical connections are only carried out as plug-in connections. The supply voltage automatically makes contact when connected in parallel. The parameters "Behaviour on bus voltage failure/recovery", "Normal and time switch operating modes", "ON/OFF delay" and "Evaluation of disable object" are available for the outputs.

Spring loaded connection

Male connector for connection of the switch outputs. See GST 18i3 range, black



92.934.0053.1 50

Part No. Box Qty

Connection lead

male – free end
 For connection of the switch outputs.
 See GST 18i3 range, black



Length

1.0 m	92.232.1004.1	75
2.0 m	92.232.2004.1	50
3.0 m	92.232.3004.1	25
4.0 m	92.232.4004.1	25
5.0 m	92.232.5004.1	20
6.0 m	92.232.6004.1	10
7.0 m	92.232.7004.1	10
8.0 m	92.232.8004.1	10

Part No. Box Qty

Extender lead

male – female
 For connection of the switch outputs.
 See GST 18i3 range, black



Length

1.0 m	92.232.1000.1	75
2.0 m	92.232.2000.1	40
3.0 m	92.232.3000.1	25
4.0 m	92.232.4000.1	25
5.0 m	92.232.5000.1	20
6.0 m	92.232.6000.1	10
7.0 m	92.232.7000.1	10
8.0 m	92.232.8000.1	10

Type:
 Part number:

gesis EIB M2-0/2B
 83.020.1025.0

Incoming supply:

via a series-connected basic or extension module

Output data:

Number
 Connection

2
 Connectors of GST 18i3 range, black
 230 V AC
 16 A resistive load
 Low switching capacity, not resistant to short circuits

Nominal voltage
 Max. switching current

Software:

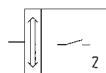
ETS Version
 Product database
 Part number
 Internet
 Functions

ETS2 V1.1 and above
 00.000.0066.1
 www.gesis.com
 See "Technical data"

General data:

Module addresses required
 Type of installation
 Type of protection
 Housing
 Length when connected / width / height (incl. of DIN rail) distribution block
 EIB Symbol

1
 Surface mounted, DIN rail mounted
 IP20
 halogen free, lightgrey RAL 7035
 31 / 80 / 120 mm



Operation on:

gesis EIB M-BAS
 gesis EIB M2-BAS

yes without status feedback
 yes

Further data:

See "Technical data"

Function	Pole designation Male connector	Colour of core Connection cable	external terminal device
N	N	blue	
PE	⊕	green/yellow	
Output A	L	brown	
N	N	blue	
PE	⊕	green/yellow	
Output B	L	brown	

gesis® EIB M2 **Extension module**

1-fold switch/analogue dimming output

Outputs

GST 18i5



Brief description:

The extension module has one switch/dimming output for controlling devices with electronic ballast. Operation is only possible in connection with a basic module from the **gesis** EIB M2 range. The electrical connections are carried out as plug-in connections. The supply voltage automatically makes contact in parallel. The parameters "Behaviour on bus voltage failure/recovery", "Offset voltage of the electronic ballast type", "Switching ON/OFF via dimming", "Dimming period", "behaviour on receipt of a telegram" and "Evaluation of disable object" are available for defining the functions.

Screw connection

Male connector for connection of the switch/dimming output. See GST 18i5 range, pastel blue



92.954.3453.0 50

Part No. Box Qty

Connection lead

male – free end
For connection of the switch/dimming output. See GST 18i5 range, pastel blue



Length

1.0 m	92.257.1004.9	30
2.0 m	92.257.2004.9	20
3.0 m	92.257.3004.9	15
4.0 m	92.257.4004.9	10
5.0 m	92.257.5004.9	10
6.0 m	92.257.6004.9	8
7.0 m	92.257.7004.9	5
8.0 m	92.257.8004.9	5

Part No. Box Qty

Extender lead

male – female
For connection of the switch/dimming output. See GST 18i5 range, pastel blue



Length

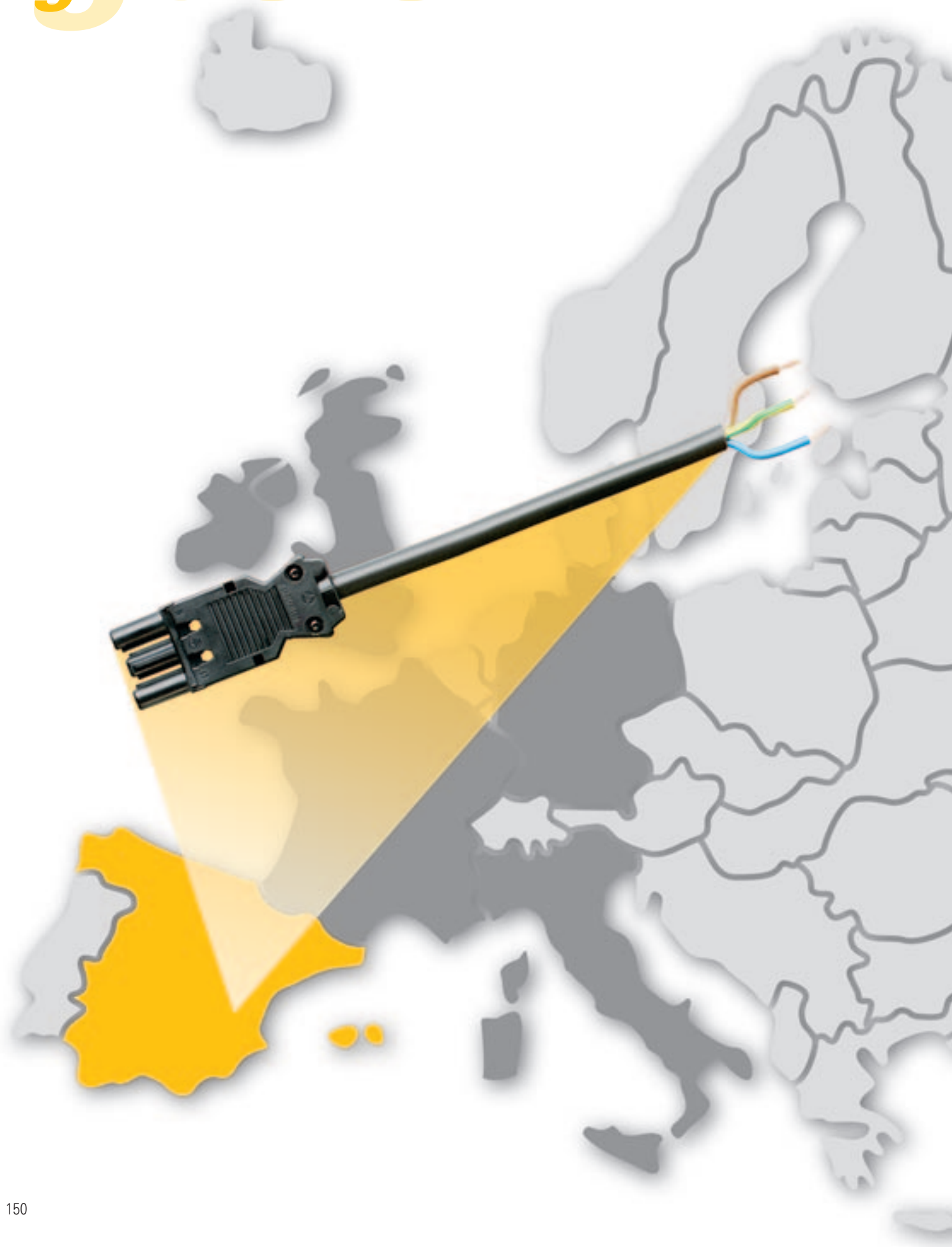
1.0 m	92.257.1000.9	30
2.0 m	92.257.2000.9	20
3.0 m	92.257.3000.9	15
4.0 m	92.257.4000.9	10
5.0 m	92.257.5000.9	10
6.0 m	92.257.6000.9	8
7.0 m	92.257.7000.9	5
8.0 m	92.257.8000.9	5

Type:	gesis EIB M2-0/1SD
Part number:	83.020.1026.0
Incoming supply:	via a series-connected basic or extension modules
Output data:	
Number	1
Connection	Connectors of GST 18i5 range, pastel blue
Switch output:	
Nominal voltage	230 V AC
Max. switching current	16 A resistive load
Control output:	
Nominal voltage	1-10 V (passive)
Max. switching current	50 mA
Software:	
ETS Version	ETS2 V1.1 and above
Product database	
Part number	00.000.0066.1
Internet	www.gesis.com
Functions	See "Technical data"
General data:	
Module addresses required	1
Type of installation	Surface mounted, DIN rail mounted
Type of protection	IP20
Housing	halogen free, lightgrey RAL 7035
Length when connected/ width / height (incl. DIN rail)	31 / 80 / 120 mm
EIB Symbol	
Operation on:	
gesis EIB M-BAS	no
gesis EIB M2-BAS	yes
Further data:	See "Technical data"

Function	Pole designation	Colour of core	External terminal device
	Male connector	Connection cable	
Switch output	L	black	
N	N	blue	
PE		green/yellow	
Control output	-	brown	
Control output	+	black 1	

EIB

gesis[®]





E

Country Specific Products

gesis is international.

gesis has established itself as a connector system for electrical installations in a wide variety of industry sectors and applications.

In countries all over the world, electrical connections are simply plugged in using **gesis**!

gesis complies with all the requirements of the internationally approved IEC regulations – one of the basic prerequisites for international use. The **gesis** system is known all over the globe and is used in numerous industry sectors and applications.

Whether it be in building installations, building automation, lighting technology, stand construction, shop fitting, shipbuilding, office refurbishment or another application – electrical connections are created using prefabricated **gesis** components.

However, each country has its own regulations and practices as regards the actual installation guidelines: In Spain for example, this is **REBT**.

gesis enables you to plan your installation properly.

As an international system, **gesis** product is designed for use within the framework of local regulations so a range of cable assemblies can be manufactured ie. using country specific cables:

**VV-K 3G1.5 0.6/1Kv
according to UNE 21123-1**

These national installation practices are taken into consideration with a customised product range.

On the following pages, you will find the typical **gesis** products for your country.

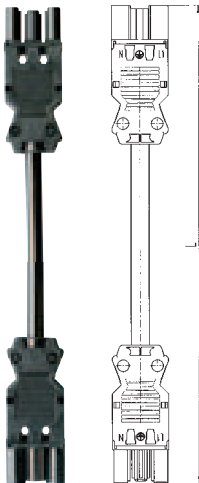
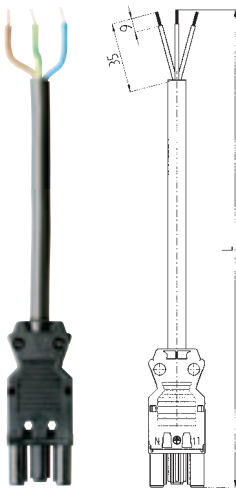
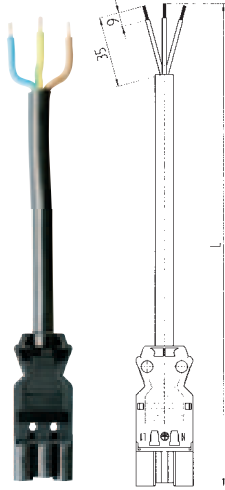
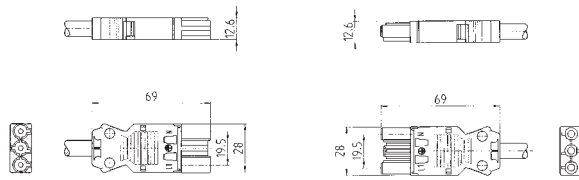
You will benefit from versatile and reliable planning which complies with all the regulations and practices.

Note:

For any use or application of **gesis** products, locally prevailing regulations on electrical installation must be observed.



GST 18i 3 pole 250 V, 16 A

			Extender lead		Starter lead		Connection lead				
Cable: VVK3G1.5 (0.6/1 kV) Insulation: with halogen (PVC)			3 x 1.5 mm² female – male		3 x 1.5 mm² female – free end with ultrasonically welded conductor ends ¹⁾		3 x 1.5 mm² male – free end with ultrasonically welded conductor ends ¹⁾				
Cable assemblies			Standard cable Type VV-k3G1.5 0.6/1kV ²⁾ Colour black								
Application	Coding	Colour	Length ²⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty		
Mains with earth	Code 1 Female N PE L Male L PE N	black	1.0 m	92.232.1020.1	75	92.232.1023.1	75	92.232.1024.1	75		
			2.0 m	92.232.2020.1	40	92.232.2023.1	50	92.232.2024.1	50		
			3.0 m	92.232.3020.1	25	92.232.3023.1	25	92.232.3024.1	25		
			4.0 m	92.232.4020.1	25	92.232.4023.1	25	92.232.4024.1	25		
			5.0 m	92.232.5020.1	20	92.232.5023.1	20	92.232.5024.1	20		
			6.0 m	92.232.6020.1	10	92.232.6023.1	10	92.232.6024.1	10		
			7.0 m	92.232.7020.1	10	92.232.7023.1	10	92.232.7024.1	10		
			8.0 m	92.232.8020.1	10	92.232.8023.1	10	92.232.8024.1	10		
		white	1.0 m	92.232.1020.2	75	92.232.1023.2	75	92.232.1024.2	75		
			2.0 m	92.232.2020.2	40	92.232.2023.2	50	92.232.2024.2	50		
			3.0 m	92.232.3020.2	25	92.232.3023.2	25	92.232.3024.2	25		
			4.0 m	92.232.4020.2	25	92.232.4023.2	25	92.232.4024.2	25		
			5.0 m	92.232.5020.2	20	92.232.5023.2	20	92.232.5024.2	20		
			6.0 m	92.232.6020.2	10	92.232.6023.2	10	92.232.6024.2	10		
			7.0 m	92.232.7020.2	10	92.232.7023.2	10	92.232.7024.2	10		
			8.0 m	92.232.8020.2	10	92.232.8023.2	10	92.232.8024.2	10		
¹⁾ Modification of the sheath/insulation strip lengths available on request ²⁾ Other lengths available on request ³⁾ Halogen free on request											

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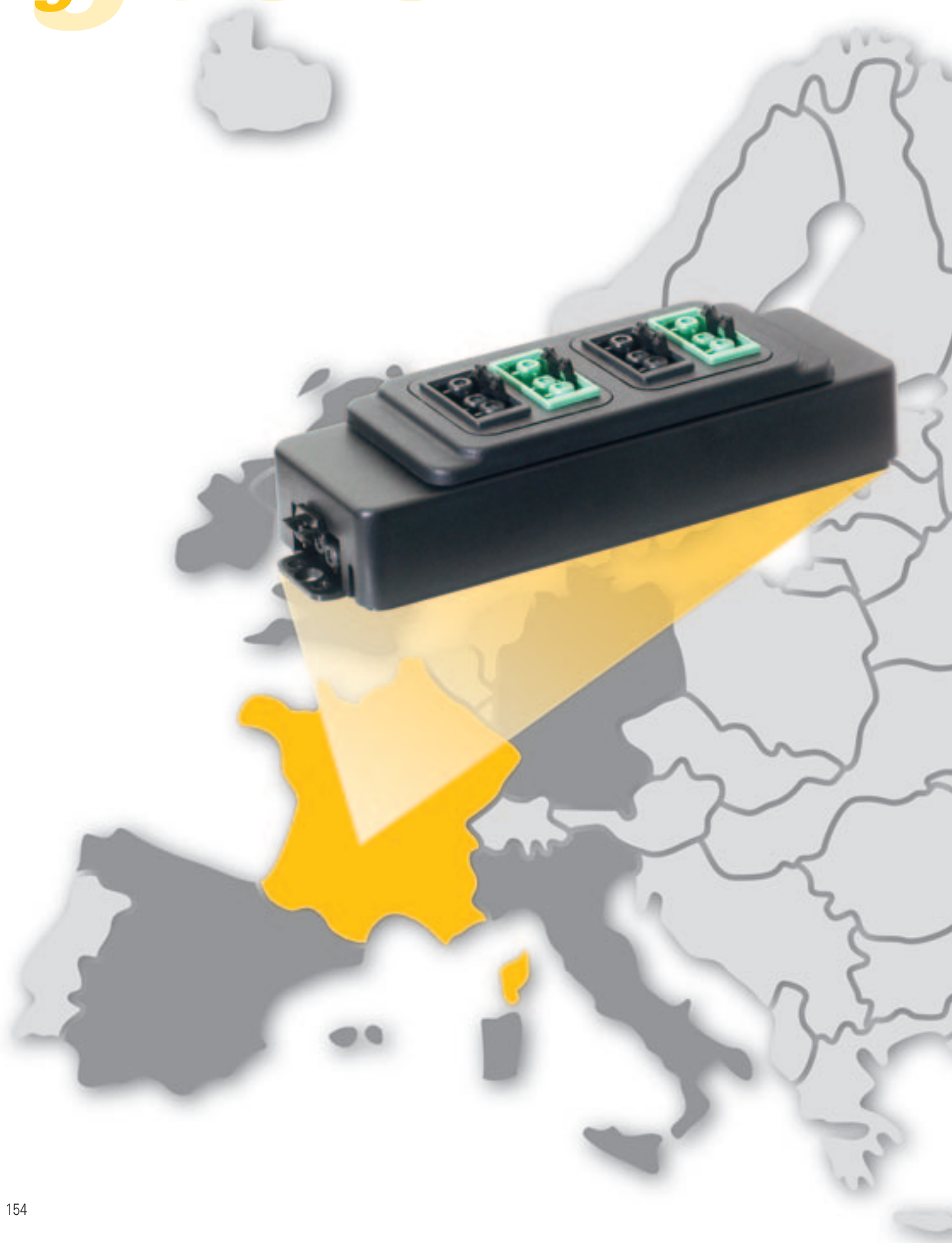


GST 18i3

3 pole mains



gesis[®]



**F****Country Specific Products****gesis is international.**

gesis has established itself as a connector system for electrical installations in a wide variety of industry sectors and applications.

In countries all over the world, electrical connections are simply plugged in using **gesis**!

gesis complies with all the requirements of the internationally approved IEC regulations – one of the basic prerequisites for international use.

The **gesis** system is known all over the globe and is used in numerous industry sectors and applications.

Whether it be in building installations, building automation, lighting technology, stand construction, shop fitting, ship-building, office refurbishment or another application – electrical connections are created using prefabricated **gesis** components.

However, each country has its own regulations and practices as regards the actual installation guidelines: In France for example, this is **NF C15-100**.

gesis enables you to plan your installation properly.

As an international system, **gesis** product is designed for use within the framework of local regulations so a range of cable assemblies can be manufactured ie. using country specific cables:

**U1000 R02V,
H07RNF or CR1**

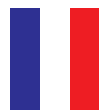
These national installation practices are taken into consideration with a customised product range.

On the following pages, you will find the typical **gesis** products for your country.

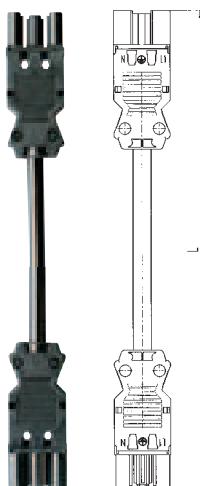
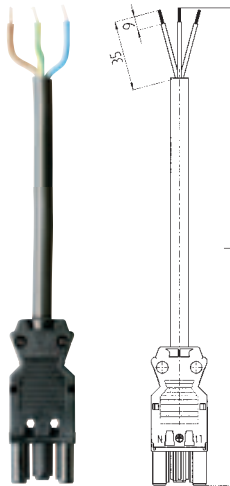
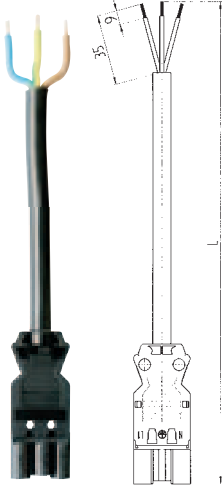
You will benefit from versatile and reliable planning which complies with all the regulations and practices.

Note:

For any use or application of **gesis** products, locally prevailing regulations on electrical installation must be observed.



GST 18i 3 pole 250 V, 16 A

			Extender lead		Starter lead		Connection lead		
Cable: R02 V				3 x 1.5 mm ² female – male		3 x 1.5 mm ² female – free end		3 x 1.5 mm ² male – free end	
Cable assemblies			Colour black Cable Type R02V						
					Photos show cable type HO5VVF				
Application	Coding	Colour	Length	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Cable 1 Female N PE L  Male L PE N 	black	1.0 m	G3.031.0102.1		G3.331.0102.1		G3.431.0102.1	
			2.0 m	G3.031.0202.1		G3.331.0202.1		G3.431.0202.1	
			3.0 m	G3.031.0302.1		G3.331.0302.1		G3.431.0302.1	
			4.0 m	G3.031.0402.1		G3.331.0402.1		G3.431.0402.1	
			5.0 m	G3.031.0502.1		G3.331.0502.1		G3.431.0502.1	
			6.0 m	G3.031.0602.1		G3.331.0602.1		G3.431.0602.1	
			7.0 m	G3.031.0702.1		G3.331.0702.1		G3.431.0702.1	
			8.0 m	G3.031.0802.1		G3.331.0802.1		G3.431.0802.1	
		white	1.0 m	G3.031.0102.2		G3.331.0102.2		G3.431.0102.2	
			2.0 m	G3.031.0202.2		G3.331.0202.2		G3.431.0202.2	
			3.0 m	G3.031.0302.2		G3.331.0302.2		G3.431.0302.2	
			4.0 m	G3.031.0402.2		G3.331.0402.2		G3.431.0402.2	
			5.0 m	G3.031.0502.2		G3.331.0502.2		G3.431.0502.2	
			6.0 m	G3.031.0602.2		G3.331.0602.2		G3.431.0602.2	
			7.0 m	G3.031.0702.2		G3.331.0702.2		G3.431.0702.2	
			8.0 m	G3.031.0802.2		G3.331.0802.2		G3.431.0802.2	

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GST 18i3

3 pole mains

Extender lead

Starter lead

Connection lead

3 x 2.5 mm²

female – male

3 x 2.5 mm²

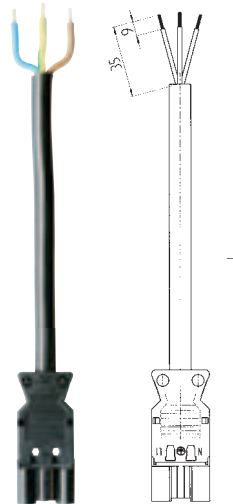
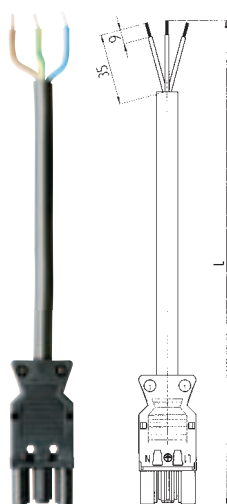
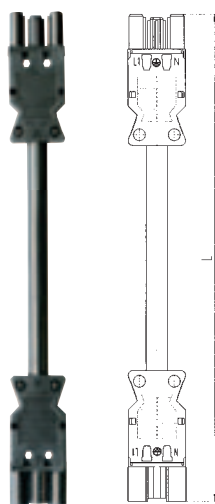
female – free end

3 x 2.5 mm²

male – free end

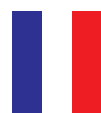
Colour black

Cable Type R02V

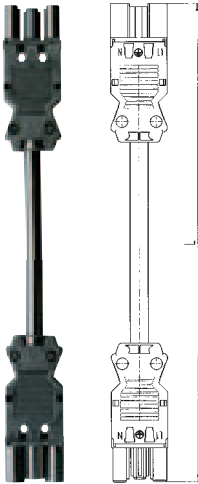
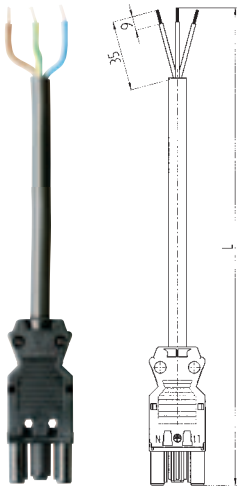
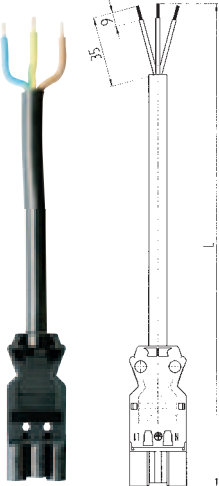


Photos show cable type HO5VVF

Length	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	G3.031.0103.1		G3.331.0103.1		G3.431.0103.1	
2.0 m	G3.031.0203.1		G3.331.0203.1		G3.431.0203.1	
3.0 m	G3.031.0303.1		G3.331.0303.1		G3.431.0303.1	
4.0 m	G3.031.0403.1		G3.331.0403.1		G3.431.0403.1	
5.0 m	G3.031.0503.1		G3.331.0503.1		G3.431.0503.1	
6.0 m	G3.031.0603.1		G3.331.0603.1		G3.431.0603.1	
7.0 m	G3.031.0703.1		G3.331.0703.1		G3.431.0703.1	
8.0 m	G3.031.0803.1		G3.331.0803.1		G3.431.0803.1	
1.0 m	G3.031.0103.2		G3.331.0103.2		G3.431.0103.2	
2.0 m	G3.031.0203.2		G3.331.0203.2		G3.431.0203.2	
3.0 m	G3.031.0303.2		G3.331.0303.2		G3.431.0303.2	
4.0 m	G3.031.0403.2		G3.331.0403.2		G3.431.0403.2	
5.0 m	G3.031.0503.2		G3.331.0503.2		G3.431.0503.2	
6.0 m	G3.031.0603.2		G3.331.0603.2		G3.431.0603.2	
7.0 m	G3.031.0703.2		G3.331.0703.2		G3.431.0703.2	
8.0 m	G3.031.0803.2		G3.331.0803.2		G3.431.0803.2	



GST 18i 3 pole 250 V, 16 A

			Extender lead		Starter lead		Connection lead		
Cable: HO7RNF				3 x 1.5 mm ² female – male		3 x 1.5 mm ² female – free end		3 x 1.5 mm ² male – free end	
Cable assemblies			Colour black Cable Type HO7RNF	   Photos show cable type HO5VVF					
Application	Coding	Colour	Length	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Cable 1 Female N PE L Male L PE N	black	1.0 m	G3.032.0102.1		G3.332.0102.1		G3.432.0102.1	
			2.0 m	G3.032.0202.1		G3.332.0202.1		G3.432.0202.1	
			3.0 m	G3.032.0302.1		G3.332.0302.1		G3.432.0302.1	
			4.0 m	G3.032.0402.1		G3.332.0402.1		G3.432.0402.1	
			5.0 m	G3.032.0502.1		G3.332.0502.1		G3.432.0502.1	
			6.0 m	G3.032.0602.1		G3.332.0602.1		G3.432.0602.1	
			7.0 m	G3.032.0702.1		G3.332.0702.1		G3.432.0702.1	
			8.0 m	G3.032.0802.1		G3.332.0802.1		G3.432.0802.1	
		white	1.0 m	G3.032.0102.2		G3.332.0102.2		G3.432.0102.2	
			2.0 m	G3.032.0202.2		G3.332.0202.2		G3.432.0202.2	
			3.0 m	G3.032.0302.2		G3.332.0302.2		G3.432.0302.2	
			4.0 m	G3.032.0402.2		G3.332.0402.2		G3.432.0402.2	
			5.0 m	G3.032.0502.2		G3.332.0502.2		G3.432.0502.2	
			6.0 m	G3.032.0602.2		G3.332.0602.2		G3.432.0602.2	
			7.0 m	G3.032.0702.2		G3.332.0702.2		G3.432.0702.2	
			8.0 m	G3.032.0802.2		G3.332.0802.2		G3.432.0802.2	

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GST 18i3

3 pole mains

Extender lead

Starter lead

Connection lead

3 x 2.5 mm²

female – male

3 x 2.5 mm²

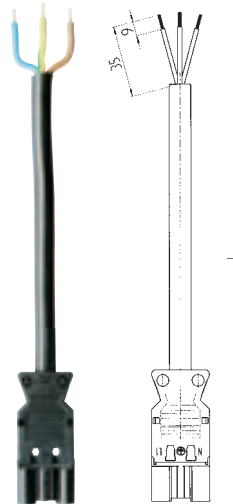
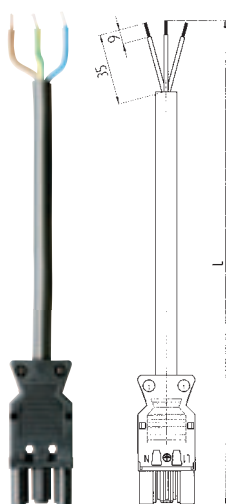
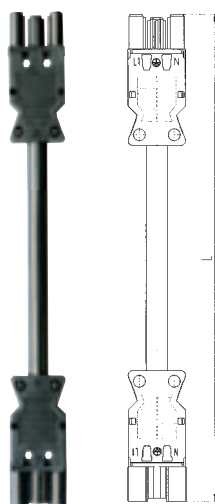
female – free end

3 x 2.5 mm²

male – free end

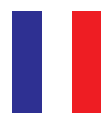
Colour black

Cable Type H07RNF

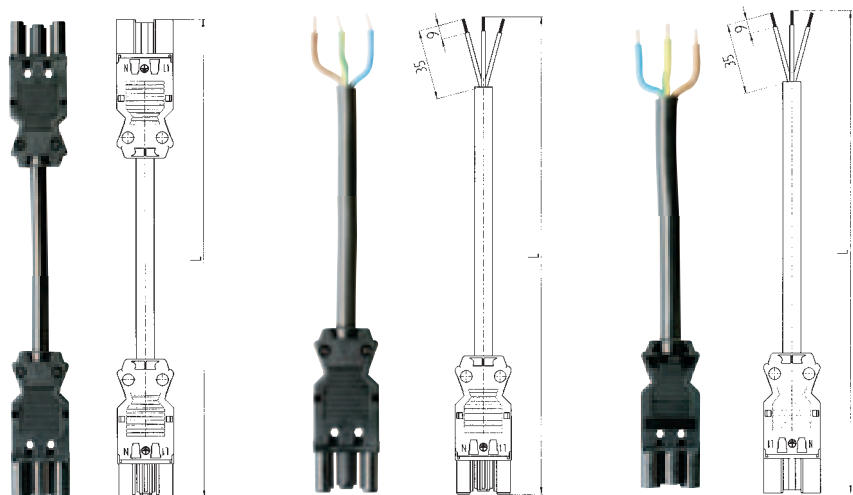


Photos show cable type HO5VVF

Length	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	G3.032.0103.1		G3.332.0103.1		G3.432.0103.1	
2.0 m	G3.032.0203.1		G3.332.0203.1		G3.432.0203.1	
3.0 m	G3.032.0303.1		G3.332.0303.1		G3.432.0303.1	
4.0 m	G3.032.0403.1		G3.332.0403.1		G3.432.0403.1	
5.0 m	G3.032.0503.1		G3.332.0503.1		G3.432.0503.1	
6.0 m	G3.032.0603.1		G3.332.0603.1		G3.432.0603.1	
7.0 m	G3.032.0703.1		G3.332.0703.1		G3.432.0703.1	
8.0 m	G3.032.0803.1		G3.332.0803.1		G3.432.0803.1	
1.0 m	G3.032.0103.2		G3.332.0103.2		G3.432.0103.2	
2.0 m	G3.032.0203.2		G3.332.0203.2		G3.432.0203.2	
3.0 m	G3.032.0303.2		G3.332.0303.2		G3.432.0303.2	
4.0 m	G3.032.0403.2		G3.332.0403.2		G3.432.0403.2	
5.0 m	G3.032.0503.2		G3.332.0503.2		G3.432.0503.2	
6.0 m	G3.032.0603.2		G3.332.0603.2		G3.432.0603.2	
7.0 m	G3.032.0703.2		G3.332.0703.2		G3.432.0703.2	
8.0 m	G3.032.0803.2		G3.332.0803.2		G3.432.0803.2	



GST 18i 3 pole 250 V, 16 A

			Extender lead		Starter lead		Connection lead		
Cable: HO7RNF				3 x 1.5 mm ² female – male		3 x 1.5 mm ² female – free end		3 x 1.5 mm ² male – free end	
Cable assemblies			Colour black Cable Type HO7RNF	 Photos show cable type HO5VVF					
Application	Coding	Colour	Length	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Cable 1 Female N PE L  Male L PE N 	black	1.0 m	G3.033.0102.1		G3.333.0102.1		G3.433.0102.1	
			2.0 m	G3.033.0202.1		G3.333.0202.1		G3.433.0202.1	
			3.0 m	G3.033.0302.1		G3.333.0302.1		G3.433.0302.1	
			4.0 m	G3.033.0402.1		G3.333.0402.1		G3.433.0402.1	
			5.0 m	G3.033.0502.1		G3.333.0502.1		G3.433.0502.1	
			6.0 m	G3.033.0602.1		G3.333.0602.1		G3.433.0602.1	
			7.0 m	G3.033.0702.1		G3.333.0702.1		G3.433.0702.1	
			8.0 m	G3.033.0802.1		G3.333.0802.1		G3.433.0802.1	
		white	1.0 m	G3.033.0102.2		G3.333.0102.2		G3.433.0102.2	
			2.0 m	G3.033.0202.2		G3.333.0202.2		G3.433.0202.2	
			3.0 m	G3.033.0302.2		G3.333.0302.2		G3.433.0302.2	
			4.0 m	G3.033.0402.2		G3.333.0402.2		G3.433.0402.2	
			5.0 m	G3.033.0502.2		G3.333.0502.2		G3.433.0502.2	
			6.0 m	G3.033.0602.2		G3.333.0602.2		G3.433.0602.2	
			7.0 m	G3.033.0702.2		G3.333.0702.2		G3.433.0702.2	
			8.0 m	G3.033.0802.2		G3.333.0802.2		G3.433.0802.2	

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GST 18i3

3 pole mains

Extender lead

Starter lead

Connection lead

3 x 2.5 mm²

female – male

3 x 2.5 mm²

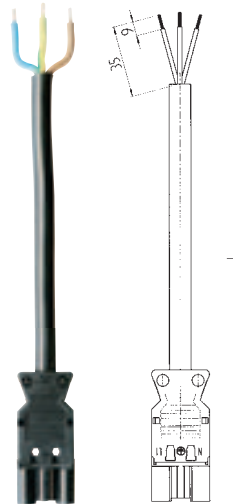
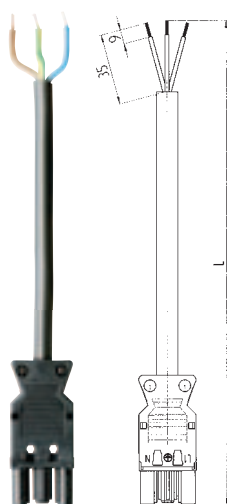
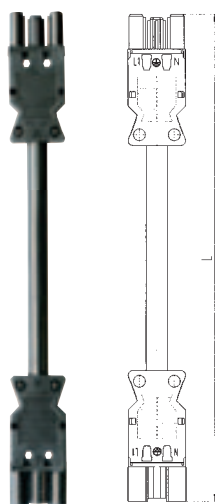
female – free end

3 x 2.5 mm²

male – free end

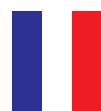
Colour black

Cable Type H07RNF



Photos show cable type HO5VVF

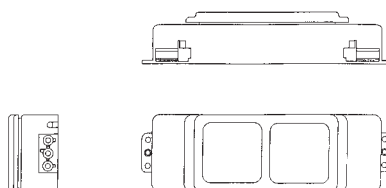
Length	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	G3.033.0103.1		G3.333.0103.1		G3.433.0103.1	
2.0 m	G3.033.0203.1		G3.333.0203.1		G3.433.0203.1	
3.0 m	G3.033.0303.1		G3.333.0303.1		G3.433.0303.1	
4.0 m	G3.033.0403.1		G3.333.0403.1		G3.433.0403.1	
5.0 m	G3.033.0503.1		G3.333.0503.1		G3.433.0503.1	
6.0 m	G3.033.0603.1		G3.333.0603.1		G3.433.0603.1	
7.0 m	G3.033.0703.1		G3.333.0703.1		G3.433.0703.1	
8.0 m	G3.033.0803.1		G3.333.0803.1		G3.433.0803.1	
1.0 m	G3.033.0103.2		G3.333.0103.2		G3.433.0103.2	
2.0 m	G3.033.0203.2		G3.333.0203.2		G3.433.0203.2	
3.0 m	G3.033.0303.2		G3.333.0303.2		G3.433.0303.2	
4.0 m	G3.033.0403.2		G3.333.0403.2		G3.433.0403.2	
5.0 m	G3.033.0503.2		G3.333.0503.2		G3.433.0503.2	
6.0 m	G3.033.0603.2		G3.333.0603.2		G3.433.0603.2	
7.0 m	G3.033.0703.2		G3.333.0703.2		G3.433.0703.2	
8.0 m	G3.033.0803.2		G3.333.0803.2		G3.433.0803.2	



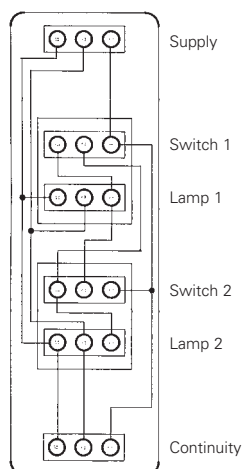
GST 18i 3 pole 250 V, 16 A

Multifunctional, control box with integrated locking device

- 6 connection points
- Male to female cross-connection, 3 poles, type GST 18i3, single-phase
- Control outputs: 2 female connectors, type GST 18i3, black coding
- Control inputs: 2 female connectors, type GST 18i3, green coding for two-way circuit, series connection or on/off circuit

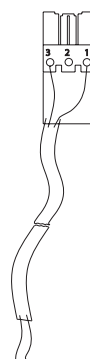


Circuit diagram



Part no.:
G3.130.0003.1

Switch cables Contact component in green



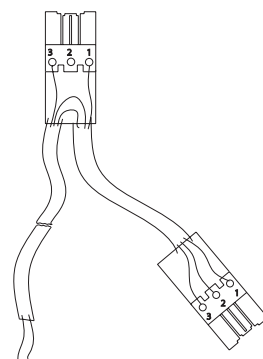
On/off circuit
Male/bare

Part no.:
G3.231.1xx2.7
Cable: R02V 2 x 1.5 mm² xx [m]



Series connection
Male/bare

Part no.:
G3.231.2xx2.7
Cable: R02V 3 x 1.5 mm² xx [m]



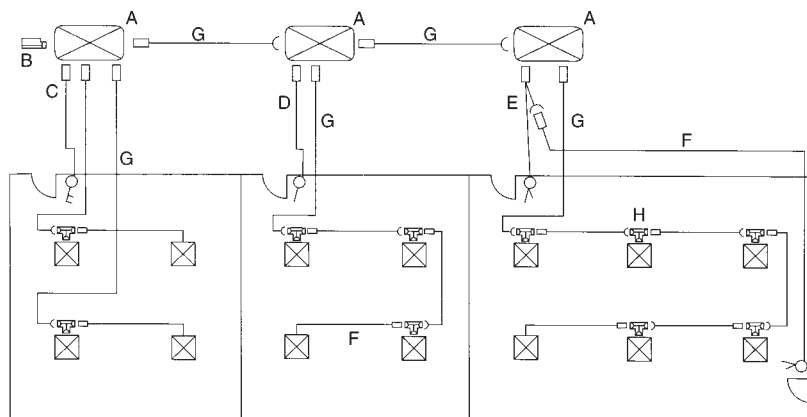
Two-way circuit
Male/female/bare

Part no.:
G3.231.3xx2.7
Cable: R02V 3 x 1.5 mm² xx [m]

Wiring diagram

A: Control box
B: Supply connector
C: Switch cable for series connection Xm
D: Switch cable for on/off circuit Xm
E: Switch cable for two-way circuit Xm
F: Switch connector
G: Connection cable Xm
H: T-distribution board

G3.130.0003.1
92.933.0053.1
G3.231.2xx2.7
G3.231.1xx2.7
G3.321.3xx2.7
92.934.0253.0
92.232.x000.1
92.030.1053.1



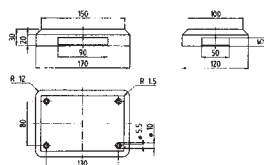


GST 18i3

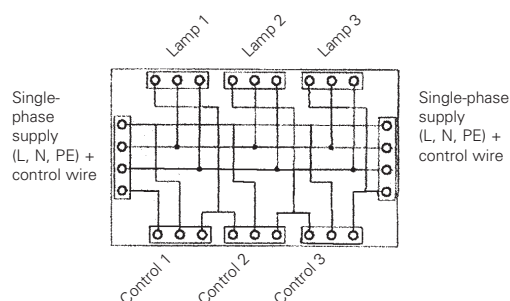
3 pole mains

Modular, control box with integrated locking device

- 8 connection points
- Male to female cross-connection, 4 poles, type GST 18i4, single-phase with control wire
- Control outputs: 3 female connectors, type GST 18i3, black coding, for supplying the three groups of lamps
- Control inputs: 3 female connectors, type GST 18i3, brown coding, for max. 3 switches



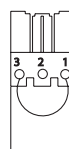
Circuit diagram



Part no.:
G3.100.0013.1

Switch cables and shunts

Contact component in brown



Shunt connector

Part no.:
G3.730.0001.4



On/off circuit
Male/bare

Part no.:
G3.231.2xx2.4
Cable : R02V 2 x 1,5 mm² x.x [m]



Male

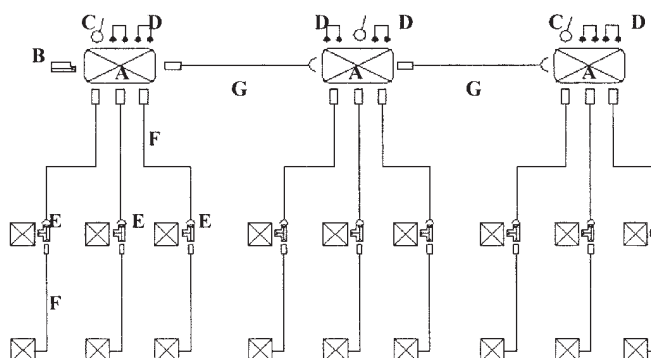
Two-way circuit, male 3 pole/
female 4 pole + male
connector 4 pole

Part no.:
G3.231.4xx2.4
Cable : R02V 4 x 1,5 mm² 0,2 m

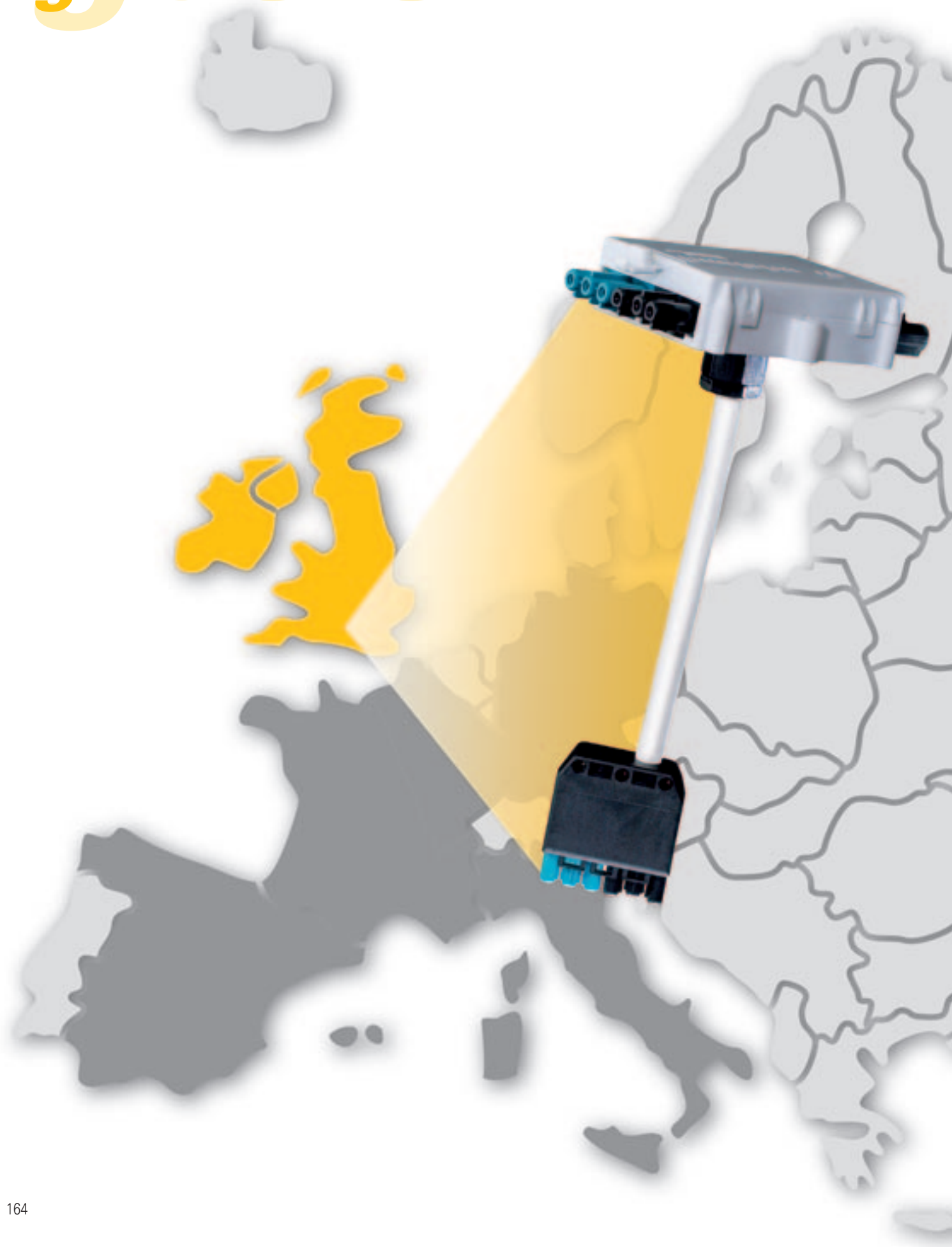
Wiring diagram

A: Control box
B: Supply connector
C: Switch cable for on/off circuit
Switch cable for two-way circuit
D: Shunt connector
E: T-distribution board
F: Connection cable Xm
G: Connection cable Xm

G3.100.0013.1
92.943.0053.1
G3.231.2xx2.4
G3.231.4xx2.4
G3.730.0001.4
92.030.1053.1
92.232.x000.1
92.207.x000.1



gesis[®]





GB

Country Specific Products

gesis is international.

gesis has established itself as a connector system for electrical installations in a wide variety of industry sectors and applications.

In countries all over the world, electrical connections are simply plugged in using **gesis**!

gesis complies with all the requirements of the internationally approved IEC regulations – one of the basic prerequisites for international use.

The **gesis** system is known all over the globe and is used in numerous industry sectors and applications.

Whether it be in building installations, building automation, lighting technology, stand construction, shop fitting, ship-building, office refurbishment or another application – electrical connections are created using prefabricated **gesis** components.

However, each country has its own regulations and practices as regards the actual installation guidelines.

In the UK for example, this is the **BS 7671 1992 IEE Wiring Regulations**.

gesis enables you to plan your installation properly.

As an international system, **gesis** product is designed for use within the framework of local regulations so a range of cable assemblies with national plugs is available on request.

These national installation practices are taken into consideration with a customised product range.

On the following pages, you will find the typical **gesis** products for your country.

You will benefit from versatile and reliable planning which complies with all the regulations and practices.

Note:

For any use or application of **gesis** products, locally prevailing regulations on electrical installation must be observed.



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GST 18i3

3 pole mains

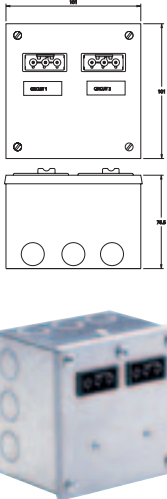
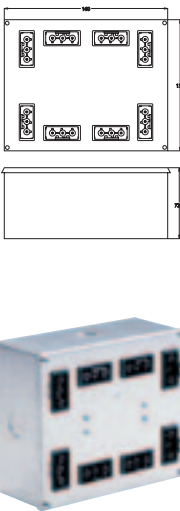
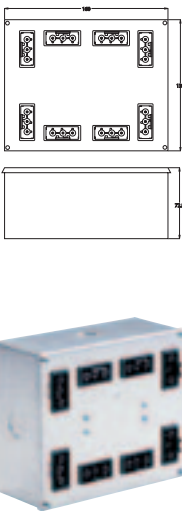
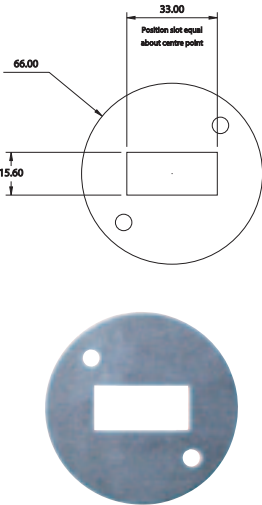


Switch block 3 pole	One Way Switch Block with through power	Passive Infra Red Switch Block with through power	Two Way Switch Block
	Part no. Box Qty	Part no. Box Qty	Part no. Box Qty
	G1.830.0012.1	G1.830.0042.1	G1.830.0062.1
Switch T 3 pole	One Way Switch T 3 core tail 4 m long	Passive Infra Red Switch T 4 core tail 4 m long	
	Part no. Box Qty	Part no. Box Qty	
	G1.833.0412.1	G1.834.0442.1	



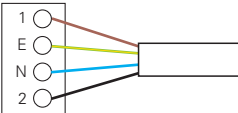
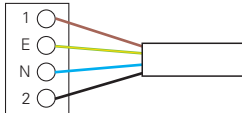
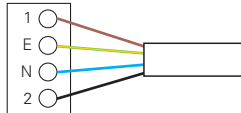
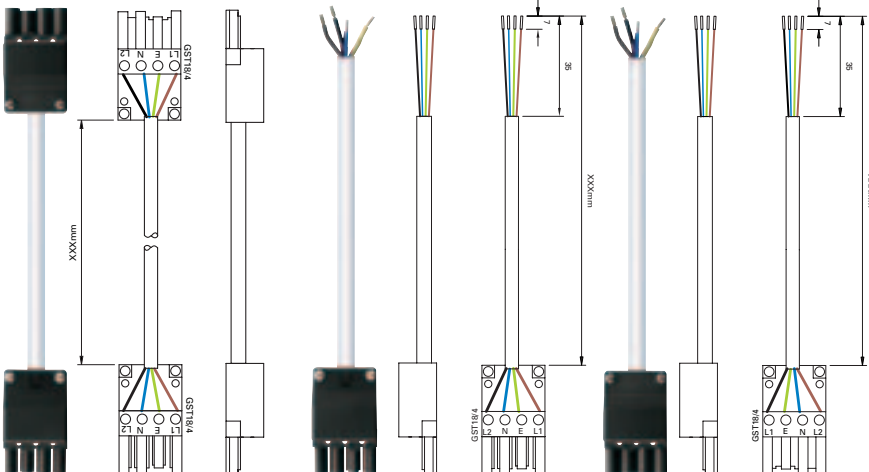
GST 18i3

3 pole mains

Adaptable Box 3 pole	Pre-wired sockets to terminal block two circuit, 1 female 3 pole socket per circuit 2.5 mm ² , metal box	Pre-wired sockets to terminal block one circuit, 8 female 3 pole sockets 2.5 mm ² , metal box	Pre-wired sockets to terminal block two circuit, 4 female 3 pole sockets per circuit 2.5 mm ² , metal box
	Part no. Box Qty	Part no. Box Qty	Part no. Box Qty
			
	G1.132.4403.1	G1.130.3813.1	G1.130.3823.1
Besa Plate 3 pole	Metal plate For besa conduit box, takes 3 pole snap-in connectors (Connector part no. 92.031.9658.1) Besa extension ring is required (to be supplied by others)		
	Part no. Box Qty		
			
	G1.131.1370.1		



GST 18i 4 pole 250/400 V, 16 A

			Extender lead	Starter lead	Connection lead			
Cable: LSOH to BS 7211 Insulation: halogen-free			4 x 1.5 mm² female – male 	4 x 1.5 mm² female – free end with ultrasonically welded conductor ends ²⁾ 	4 x 1.5 mm² male – free end with ultrasonically welded conductor ends ²⁾ 			
Cable assemblies			LSOH to BS 7211  Optional Locking clip (part no. PA.000.1394) subject to separate order					
Application	Coding	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Female  Male  Code 1	2.0 m	G1.044.0202.1		G1.344.0202.1		G1.444.0202.1	
		3.0 m	G1.044.0302.1		G1.344.0302.1		G1.444.0302.1	
		4.0 m	G1.044.0402.1		G1.344.0402.1		G1.444.0402.1	
		5.0 m	G1.044.0502.1		G1.344.0502.1		G1.444.0502.1	
		7.0 m	G1.044.0702.1		G1.344.0702.1		G1.444.0702.1	
		10.0 m	G1.044.1002.1		G1.344.1002.1		G1.444.1002.1	

¹⁾ Other lengths available on request
²⁾ Modification of the sheath/length
strip/lengths available on request

These cables must not be used with other gesis GST 18i4
cable assemblies, represented in this catalogue due to
differences in wiring configurations



GST 18i4

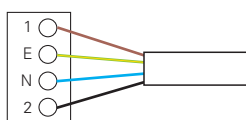
4 pole mains

Extender lead

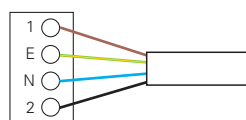
Starter lead

Connection lead

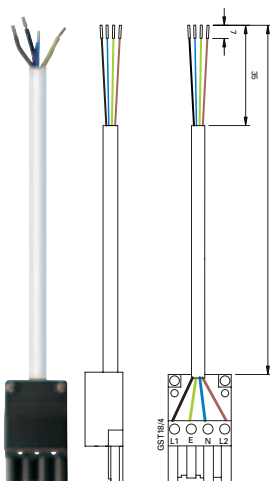
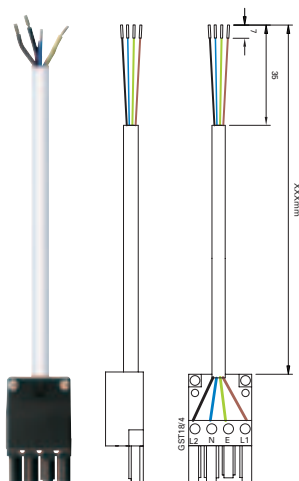
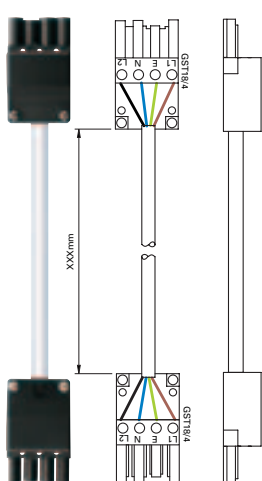
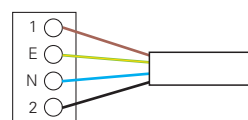
**4 x 2.5 mm²
female – male**



**4 x 2.5 mm²
female – free end**
with ultrasonically welded
conductor ends²⁾



**4 x 2.5 mm²
male – free end**
with ultrasonically welded
conductor ends²⁾

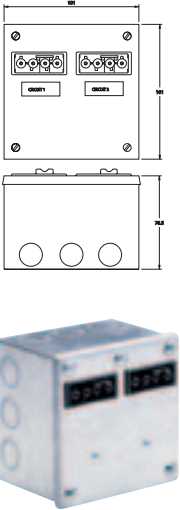
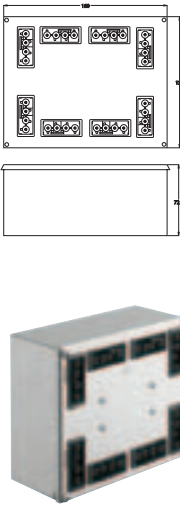
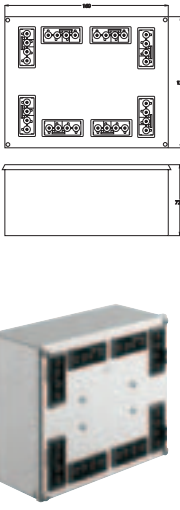
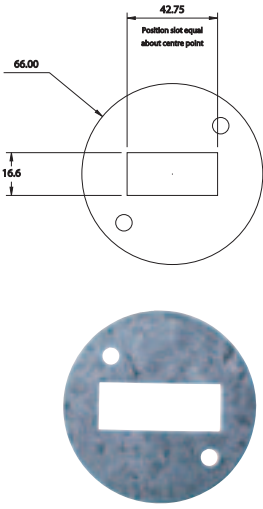


Optional
Locking clip to be ordered separately. See in the accessories section

Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
2.0 m	G1.044.0203.1		G1.344.0203.1		G1.444.0203.1	
3.0 m	G1.044.0303.1		G1.344.0303.1		G1.444.0303.1	
4.0 m	G1.044.0403.1		G1.344.0403.1		G1.444.0403.1	
5.0 m	G1.044.0503.1		G1.344.0503.1		G1.444.0503.1	
7.0 m	G1.044.0703.1		G1.344.0703.1		G1.444.0703.1	
10.0 m	G1.044.1003.1		G1.344.1003.1		G1.444.1003.1	

These cables must not be used with other gesis GST 18i4 cable assemblies, represented in this catalogue due to differences in wiring configurations

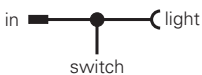
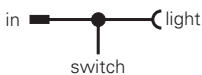
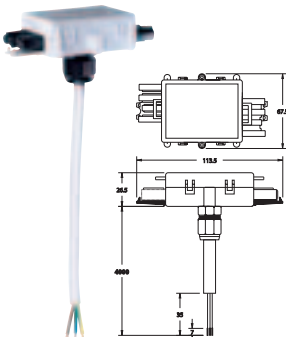
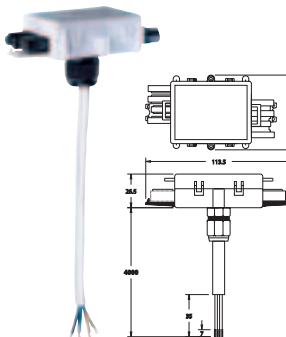
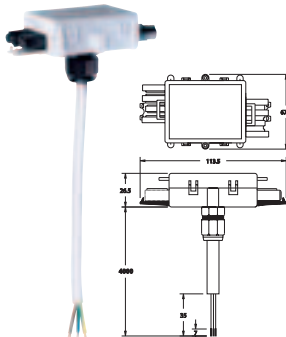
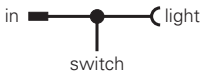
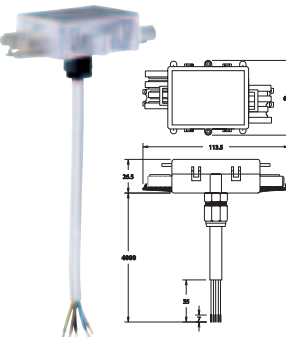
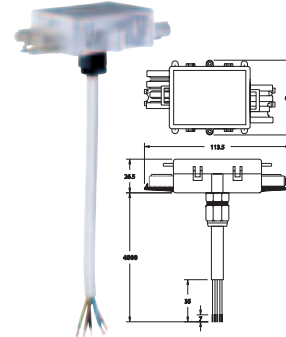


Adaptable Box 4 pole	Pre-wired sockets to terminal block two circuit, 2 black female 4 pole socket, 2.5 mm², metal box	Pre-wired sockets to terminal block one circuit, 8 female, 4 pole sockets, 2.5 mm², metal box	Pre-wired sockets to terminal block two circuit, 4 female 4 pole sockets per circuit 2.5 mm², metal box
	Part no. Box Qty	Part no. Box Qty	Part no. Box Qty
			
	G1.142.4403.1	G1.140.4813.1	G1.140.4823.1
Besa Plate 4 pole	Metal plate for besa conduit box, takes 4 pole snap-in connectors (Connector part no. 92.041.9658.1) Besa extension ring is required (supplied by others)		
	Part no. Box Qty		
			
	G1.141.1300.1		



GST 18i4

4 pole mains

Switch T 4 pole	One way switch T switches terminal 1, 3 core tail 4 m long 	PIR switch T switches terminal 1, 4 core tail 4 m long 	Emergency test T switches terminal 2, emergency supply 3 core tail 4 m long 
	Part no. Box Qty 	Part no. Box Qty 	Part no. Box Qty 
	Switch T 4 pole Part no. Box Qty	Combined Switch T switching for terminal 1 and 2 (emergency) 5 core tail 4 m long 	Intermediate T use with two way switches and 4 pole cables. 5 core tail 4 m long Part no. Box Qty
	 Part no. Box Qty	 Part no. Box Qty	

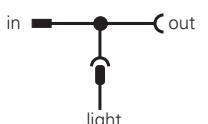
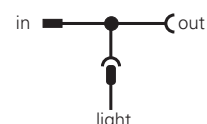
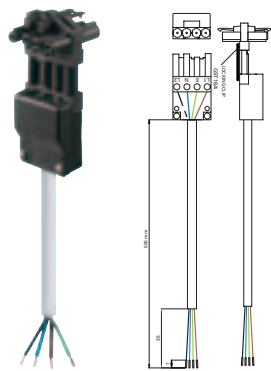
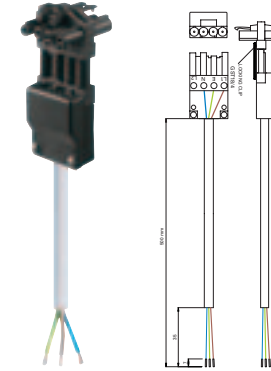
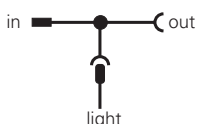
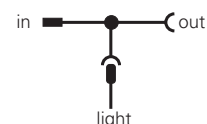
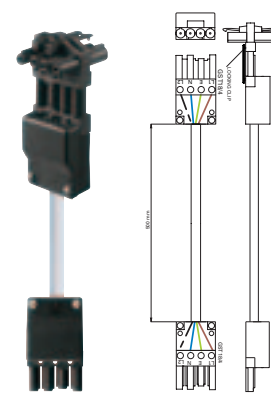
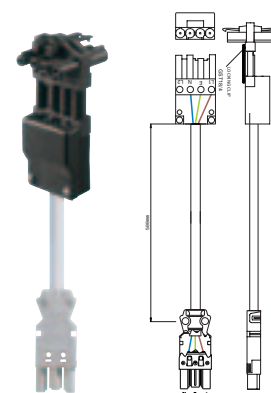


Switch Block 4 pole	One Way Switch Block with through power switches terminal 1	Passive Infra Red Switch Block with through power switches terminal 1	Two Way Switch Block switches terminal 1
	Part no. Box Qty	Part no. Box Qty	Part no. Box Qty
	G1.840.0012.1	G1.840.0042.1	G1.840.0062.1



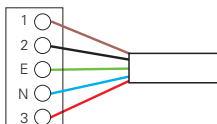
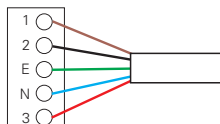
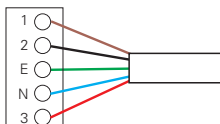
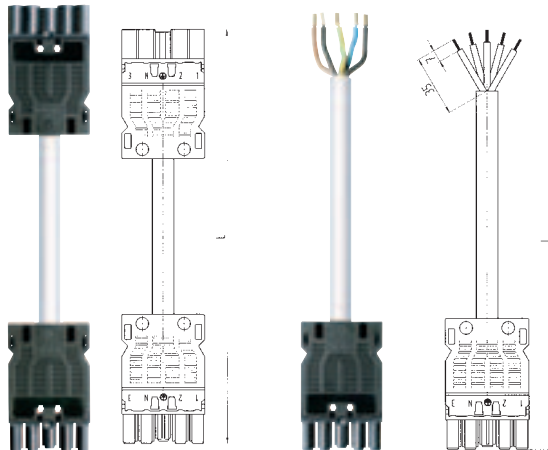
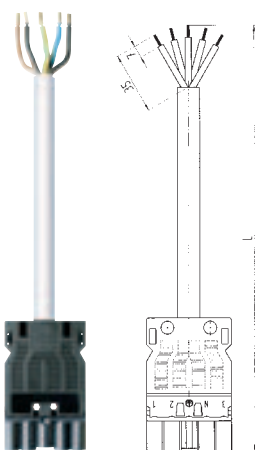
GST 18i4

4 pole mains

Light Connection Unit-Free End	T with male to free end cable 4 core 0.5 m long 1.5 mm ² and locking-clip stripback 35/7 	T with male to free end cable 3 core 0.5 m long 1.5 mm ² and locking-clip stripback 35/7 	
	Part no. Box Qty 	Part no. Box Qty 	
	G1.944.0542.1	G1.943.0542.1	
Light Connection Unit-Female Connector	T with male to female cable 0.5 m long 1.5 mm ² and locking-clip 	T with male to 3 pole female cable 0.5 m long 1.5 mm ² and locking-clip 	
	Part no. Box Qty 	Part no. Box Qty 	
	G1.944.0502.1	G1.943.0502.1	



GST 18i 5 pole 250/400 V, 16 A

			Extender lead		Starter lead		Connection lead		
Cable: LSOH to BS 7211 Insulation: halogen-free			5 x 1.5 mm² female – male 		5 x 1.5 mm² female – free end 		5 x 1.5 mm² male – free end 		
Cable assemblies									
			LSOH to BS 7211						
Application		Coding	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Female 3 IN PE 2 1  Male 1 2 PE N 3 	1.5 mm ²	2.0 m	G1.055.0202.1		G1.355.0202.1		G1.455.0202.1	
			3.0 m	G1.055.0302.1		G1.355.0302.1		G1.455.0302.1	
			4.0 m	G1.055.0402.1		G1.355.0402.1		G1.455.0402.1	
			5.0 m	G1.055.0502.1		G1.355.0502.1		G1.455.0502.1	
			7.0 m	G1.055.0702.1		G1.355.0702.1		G1.455.0702.1	
			10.0 m	G1.055.1002.1		G1.355.1002.1		G1.455.1002.1	

¹⁾ Other lengths available on request

These cables must not be used with other gesis GST 18i 5 cable assemblies, represented in this catalogue due to differences in wiring configurations



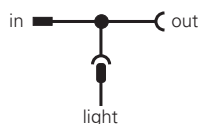
GST 18i5

5 pole mains

Light Connection Unit-Free End

T with male to free end cable

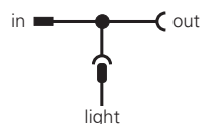
5 core 0.5 m long 1.5 mm² and
locking-clip stripback 35/7



Part no.	Box Qty
----------	---------

T with male to free end cable

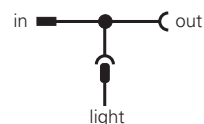
4 core 0.5 m long 1.5 mm² and
locking-clip stripback 35/7



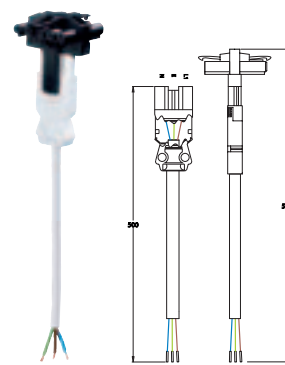
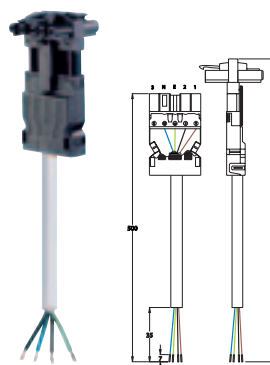
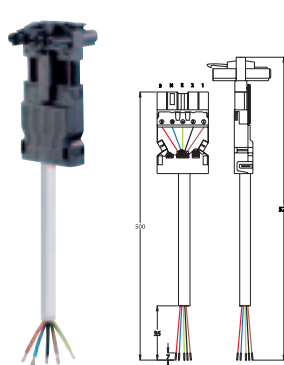
Part no.	Box Qty
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T with male to free end cable

3 core 0.5 m long 1.5 mm² and
locking-clip stripback 35/7



Part no.	Box Qty
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G1.955.0542.1

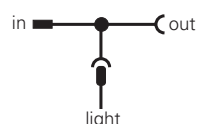
G1.954.0542.1

G1.953.0542.1

Light Connection Unit-Female Connector

T with male to female cable

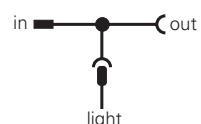
0.5 m long 1.5 mm² and locking-clip



Part no.	Box Qty
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T with male to 4 pole female cable

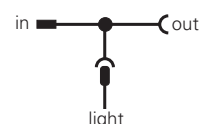
0.5 m long 1.5 mm² and locking-clip



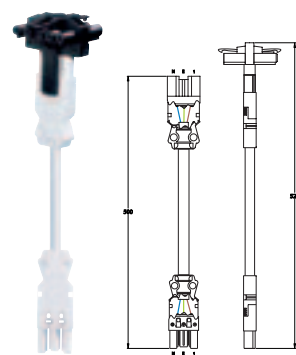
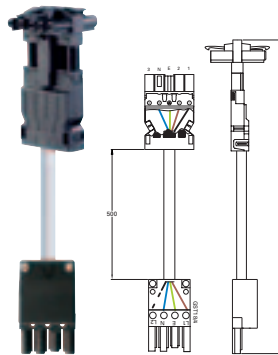
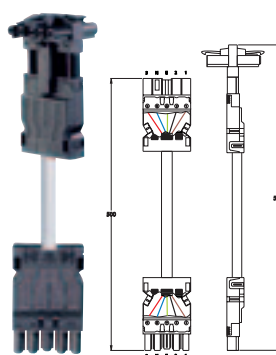
Part no.	Box Qty
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T with male to 3 pole female cable

0.5 m long 1.5 mm² and locking-clip



Part no.	Box Qty
----------	---------



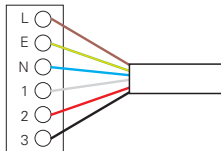
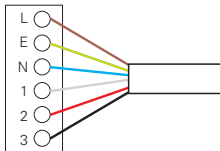
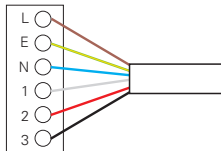
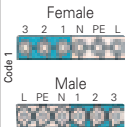
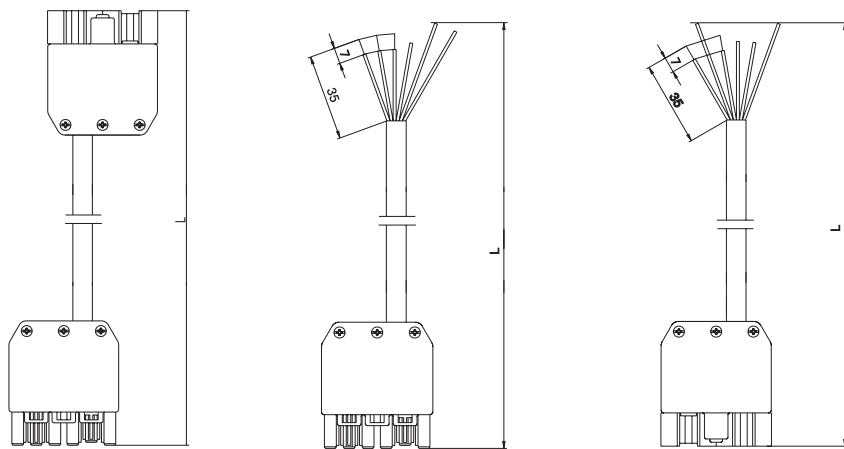
G1.955.0502.1

G1.954.0502.1

G1.953.0502.1



GST 18i 6 pole 250 V, 16 A

			Extender lead		Starter lead		Connection lead		
Cable: LSOH to BS 7211 Insulation: halogen-free			6 x 1.5 mm² female – male 		6 x 1.5 mm² female – free end Cable ends with ferrules ²⁾ 		6 x 1.5 mm² male – free end Cable ends with ferrules ²⁾ 		
Cable assemblies									
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Combination of (3+1) pole mains/ emergency power, 2 pole dimming		black/ pastel blue	2.0 m	G1.066.0202.7		G1.366.0202.7		G1.466.0202.7	
			3.0 m	G1.066.0302.7		G1.366.0302.7		G1.466.0302.7	
			4.0 m	G1.066.0402.7		G1.366.0402.7		G1.466.0402.7	
			5.0 m	G1.066.0502.7		G1.366.0502.7		G1.466.0502.7	
			7.0 m	G1.066.0702.7		G1.366.0702.7		G1.466.0702.7	
			10.0 m	G1.066.1002.7		G1.366.1002.7		G1.466.1002.7	
Other wiring configurations available upon request									
¹⁾ Other lengths available on request ²⁾ Modification of the sheath/insulation strip lengths available on request			For black/grey cable assemblies replace the last digit with 0 when ordering						

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GST 18i6

(3+1) pole mains/emergency power Dimming 2 pole

Power lead

3 x 2.5 mm²
female to male
for power circuits

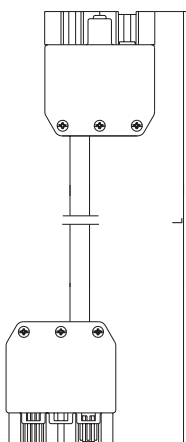
Cable assemblies

LSOH to BS 7211



Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty
	Female 3 2 1 N PE L Male L PE N 1 2 3	black/black	2.0 m 3.0 m 4.0 m 5.0 m 7.0 m 10.0 m	G1.663.0203.1 G1.663.0303.1 G1.663.0403.1 G1.663.0503.1 G1.663.0703.1 G1.663.1003.1	

Other wiring configurations available upon request



For black/grey cable assemblies replace the last digit with 0 when ordering



GST 18i 6 pole 250 V, 10 A

Drop Leads- lighting lead from lighting control module to light fitting			Drop lead 6 core		Drop lead 5 core		Drop lead 4 core		
			6 x 1 mm ² male to free end		5 x 1 mm ² male to free end		4 x 1 mm ² male to free end		
Cable assemblies									
LSOH to BS 7211									
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Combination of (3+1) pole mains/ emergency power, 2 pole dimming		black/ pastel blue	2.0 m	G1.766.0201.7		G1.765.0201.7		G1.764.0201.7	
			3.0 m	G1.766.0301.7		G1.765.0301.7		G1.764.0301.7	
			4.0 m	G1.766.0401.7		G1.765.0401.7		G1.764.0401.7	
			5.0 m	G1.766.0501.7		G1.765.0501.7		G1.764.0501.7	
			7.0 m	G1.766.0701.7		G1.765.0701.7		G1.764.0701.7	
			10.0 m	G1.766.1001.7		G1.765.1001.7		G1.764.1001.7	
Other wiring configurations available upon request									
¹⁾ Other lengths available on request			For black/grey cable assemblies replace the last digit with 0 when ordering						

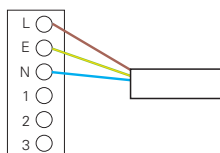


GST 18i6

(3+1) pole mains/emergency power Dimming 2 pole

Drop lead 3 core

3 x 1 mm²
male to free end



Cable assemblies

LSOH to BS 7211



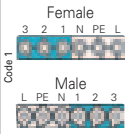
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty
Combination of (3+1) pole mains/emergency power, 2 pole dimming		black/ pastel blue	2.0 m 3.0 m 4.0 m 5.0 m 7.0 m 10.0 m	G1.763.0201.7 G1.763.0301.7 G1.763.0401.7 G1.763.0501.7 G1.763.0701.7 G1.763.1001.7	

Other wiring configurations available upon request

For black/grey cable assemblies replace the last digit with 0 when ordering

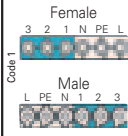


GST 18i 6 pole 250 V, 16 A

			Interface lead		Interface lead		Interface lead			
Cable: LSOH to BS 7211				6 pole black/blue to 5 pole female 5 core 1.5 mm²		6 pole black/blue to 4 pole female 4 core 1.5 mm²		6 pole black/blue to 3 pole female 3 core 1.5 mm²		
Insulation: halogen-free										
Cable assemblies			LSOH to BS 7211							
Application	Coding	Colour		Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Combination of (3+1) pole mains/ emergency power, 2 pole dimming		black/ pastel blue		2.0 m 1.5 mm²	G1.265.0202.7	1	G1.264.0202.7	1	G1.263.0202.7	1
Other wiring configurations available upon request										



GST 18i6

			Interface lead		(3+1) pole mains/emergency power Interface lead		Dimming 2 pole Interface lead		
Cable: LSOH to BS 7211			6 pole black/blue to 5 pole female 5 core 2.5 mm²		6 pole black/blue to 4 pole female 4 core 2.5 mm²		6 pole black/blue to 3 pole female 3 core 2.5 mm²		
Insulation: halogen-free									
Cable assemblies			LSOH to BS 7211						
									
Application	Coding	Colour	Length ¹⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Combination of (3+1) pole mains/emergency power, 2 pole dimming		black/ pastel blue	2.0 m 2.5 mm²	G1.265.0203.7	1	G1.264.0203.7	1	G1.263.0203.7	1
Other wiring configurations available upon request									

¹⁾ Other lengths available on request

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¹⁾ Other lengths available on request



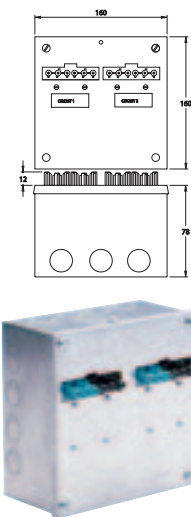
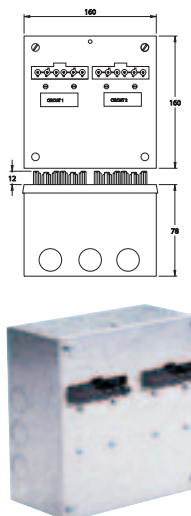
Switch T 6 pole, black-blue connectors			Emergency test T switches terminal 2, emergency supply, 3 core tail 4 m long		Combined switch T switching for terminal 1 and 2 (emergency), 5 core tail 4 m long		PIR switch T switches terminal 1, 4 core tail 4 m long	
Application	Coding	Colour	Part no.	Box Qty	Part no.	Box Qty	Part no.	Box Qty
Combination of (3+1) pole mains/ emergency power, 2 pole dimming		 black/ pastel blue	G1.863.0422.7		G1.865.0432.7		G1.864.0442.7	
Switch block 6 pole, black-blue connectors			Passive infra red switch with through power, switches terminal 1					
			Part no.	Box Qty	Part no.	Box Qty	Part no.	Box Qty
Combination of (3+1) pole mains/ emergency power, 2 pole dimming		 black/ pastel blue	G1.860.0042.7					



GST 18i6

(3+1) pole mains/emergency power Dimming 2 pole



Adaptable Box, 6 pole, black-blue			Pre-wired sockets to terminal block two circuit, two black-blue female sockets, 2.5 mm ² , metal box			
Application	Coding	Colour	Part no.	Box Qty		
						
Combination of (3+1) pole mains/emergency power, 2 pole dimming	Female 3 2 1 N PE L Code 1 Male L PE N 1 2 3	black/ pastel blue	G1.162.6603.7			
Adaptable Box, 6 pole, black-black			Pre-wired sockets to terminal block two circuit, two black-black female sockets, 2.5 mm ² , metal box			
Application	Coding	Colour	Part no.	Box Qty		
						
Combination of (3+1) pole mains/emergency power, 2 pole dimming	Female 3 2 1 N PE L Code 1 Male L PE N 1 2 3	black/black	G1.162.6603.1			



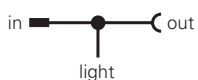
GST 18i6

(3+1) pole mains/emergency power Dimming 2 pole

Light connection T – direct fixing, black-blue connectors

Plastic enclosure

with 20 mm bush and lock nut,
6 tails of 1.5 mm², 0.5 m long



Plastic enclosure

with 20 mm bush and lock nut,
5 tails of 1.5 mm², 0.5 m long



Plastic enclosure

with 20 mm bush and lock nut,
4 tails of 1.5 mm², 0.5 m long



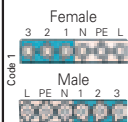
Application Coding Colour

Part no. Box Qty

Part no. Box Qty

Part no. Box Qty

Combination of
(3+1) pole mains/
emergency power,
2 pole dimming



black/
pastel blue

G1.966.0532.7

G1.965.0532.7

G1.964.0532.7

Plastic enclosure

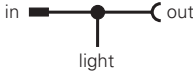
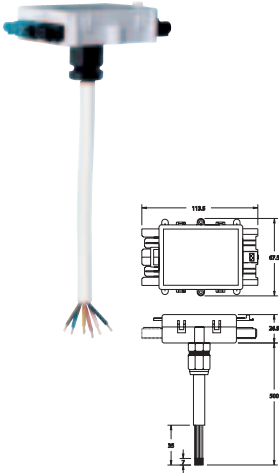
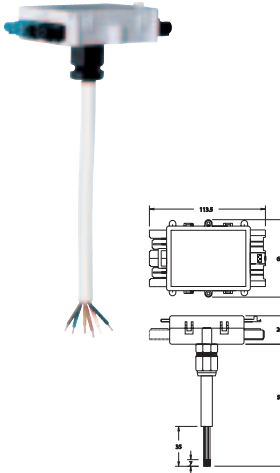
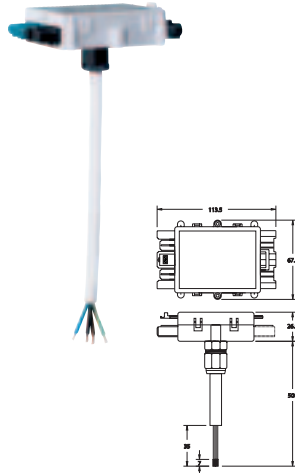
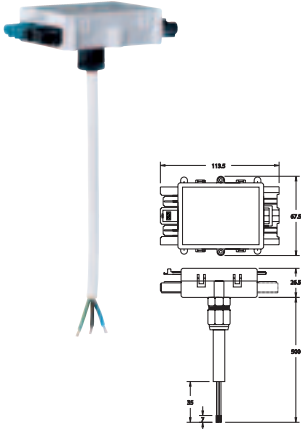
with 20 mm bush and lock nut,
3 tails of 1.5 mm², 0.5 m long



Part no. Box Qty

G1.963.0532.7



Light connection T – cable tail, black-blue connectors	Plastic enclosure with stuffing gland, 6 core cable 1.5 mm², 0.5 m long, stripback 35/7	Plastic enclosure with stuffing gland, 5 core cable 1.5 mm², 0.5 m long, stripback 35/7	Plastic enclosure with stuffing gland, 4 core cable 1.5 mm², 0.5 m long, stripback 35/7
			
	Part no. Box Qty	Part no. Box Qty	Part no. Box Qty
			
	G1.966.0542.7	G1.965.0542.7	G1.964.0542.7
	Plastic enclosure with stuffing gland, 3 core cable 1.5 mm², 0.5 m long, stripback 35/7		
			
	Part no. Box Qty		
			
	G1.963.0542.7		



GST 18i6

(3+1) pole mains/emergency power Dimming 2 pole

Light connection T – female connector, black-blue

Plastic enclosure

with cable tail fitted with 6 pole female connector, 1.5 mm², 0.5 m long



Part no. Box Qty

Plastic enclosure

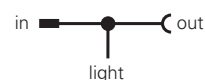
with cable tail fitted with 5 pole female connector, 1.5 mm², 0.5 m long



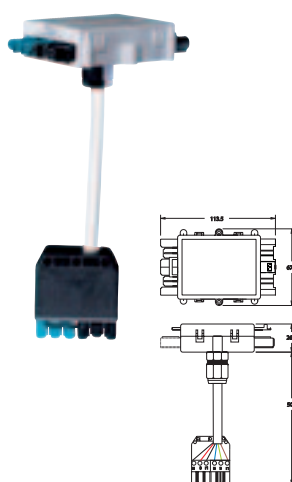
Part no. Box Qty

Plastic enclosure

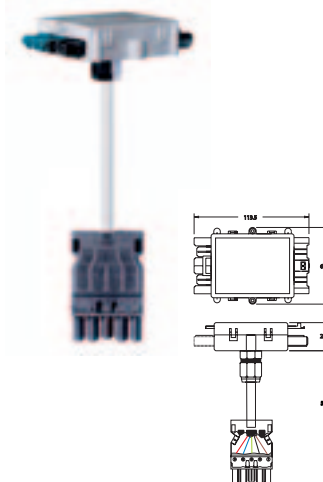
with cable tail fitted with 4 pole female connector, 1.5 mm², 0.5 m long



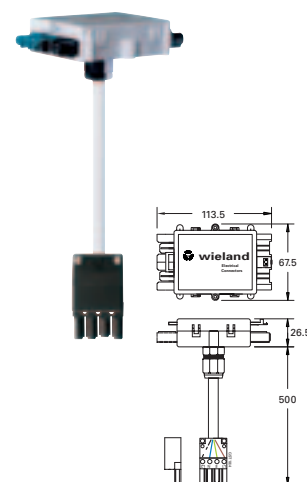
Part no. Box Qty



G1.966.0502.7



G1.965.0502.7



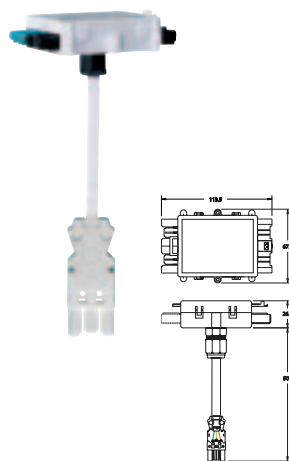
G1.964.0502.7

Plastic enclosure

with cable tail fitted with 3 pole female connector, 1.5 mm², 0.5 m long



Part no. Box Qty



G1.963.0502.7



gesis[®]





***gesis* is international.**

gesis has established itself as a connector system for electrical installations in a wide variety of industry sectors and applications.

In countries all over the world, electrical connections are simply plugged in using ***gesis***!

gesis complies with all the requirements of the internationally approved IEC regulations – one of the basic prerequisites for international use.

The ***gesis*** system is known all over the globe and is used in numerous industry sectors and applications.

Whether it be in building installations, building automation, lighting technology, stand construction, shop fitting, ship-building, office refurbishment or another application – electrical connections are created using prefabricated ***gesis*** components.

However, each country has its own regulations and practices as regards the actual installation guidelines: In Italy for example, this is **CEI**.

gesis enables you to plan your installation properly.

As an international system, ***gesis*** product is designed for use within the framework of local regulations so a range of cable assemblies can be manufactured ie. using country specific cables:

FG7OM, FG7OR and FROR

These national installation practices are taken into consideration with a customised product range.

On the following pages, you will find the typical ***gesis*** products for your country.

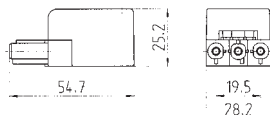
You will benefit from versatile and reliable planning which complies with all the regulations and practices.

Note:

For any use or application of ***gesis*** products, locally prevailing regulations on electrical installation must be observed.



GST 18i 3 pole 250 V, 16 A

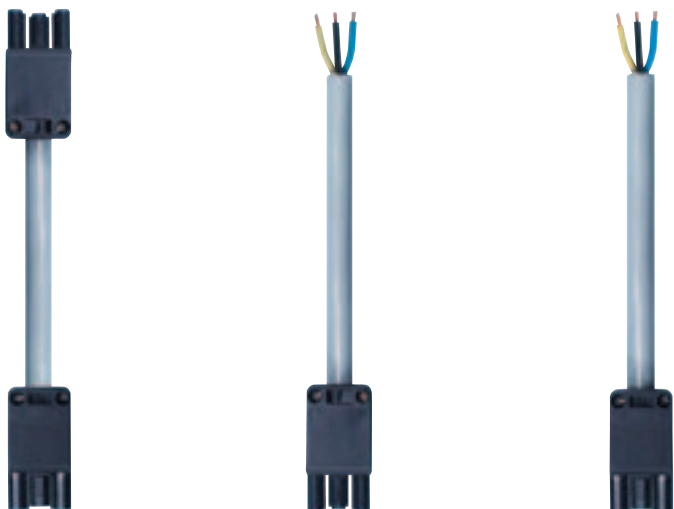
			Extender lead		Starter lead		Connection lead		
Cable: FG70R Insulation: PVC				3 x 1.5 mm² female – male		3 x 1.5 mm² female – free end¹⁾		3 x 1.5 mm² male – free end¹⁾	
Cable assemblies			Colour: grey Standard cable Type: FG70R ²⁾ Insulation: PVC						
Application	Coding	Colour	Length ³⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Code 1 Female N PE L Male L PE N	black	1.0 m	G7.031.0102.1		G7.331.0102.1		G7.431.0102.1	
			2.0 m	G7.031.0202.1		G7.331.0202.1		G7.431.0202.1	
			3.0 m	G7.031.0302.1		G7.331.0302.1		G7.431.0302.1	
			4.0 m	G7.031.0402.1		G7.331.0402.1		G7.431.0402.1	
			5.0 m	G7.031.0502.1		G7.331.0502.1		G7.431.0502.1	
			6.0 m	G7.031.0602.1		G7.331.0602.1		G7.431.0602.1	
			7.0 m	G7.031.0702.1		G7.331.0702.1		G7.431.0702.1	
			8.0 m	G7.031.0802.1		G7.331.0802.1		G7.431.0802.1	
									
			¹⁾ Modification of the sheath/insulation strip lengths available on request ²⁾ Halogen free on request ³⁾ Other lengths available on request						

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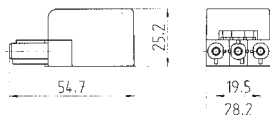
GST 18i3

3 pole mains

Extender lead		Starter lead		Connection lead		
	3 x 2.5 mm² female – male	3 x 2.5 mm² female – free end¹⁾	3 x 2.5 mm² male – free end¹⁾			
Colour: grey Standard cable Type: FG7OR ²⁾ Insulation: PVC						
Length ³⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	G7.031.0103.1		G7.331.0103.1		G7.431.0103.1	
2.0 m	G7.031.0203.1		G7.331.0203.1		G7.431.0203.1	
3.0 m	G7.031.0303.1		G7.331.0303.1		G7.431.0303.1	
4.0 m	G7.031.0403.1		G7.331.0403.1		G7.431.0403.1	
5.0 m	G7.031.0503.1		G7.331.0503.1		G7.431.0503.1	
6.0 m	G7.031.0603.1		G7.331.0603.1		G7.431.0603.1	
7.0 m	G7.031.0703.1		G7.331.0703.1		G7.431.0703.1	
8.0 m	G7.031.0803.1		G7.331.0803.1		G7.431.0803.1	



GST 18i 3 pole 250 V, 16 A

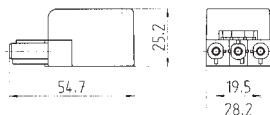
				Extender lead	Starter lead		Connection lead		
Cable: FG70M Insulation: Special thermoplastic					3 x 1.5 mm² female – male	3 x 1.5 mm² female – free end ¹⁾	3 x 1.5 mm² male – free end ¹⁾		
Cable assemblies				Colour: green Standard cable Type: FG70M ²⁾ Insulation: Special thermoplastic					
Application	Coding	Colour	Length ³⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Code 1 Female N PE L  Male L PE N 	black	1.0 m	G7.032.0102.1		G7.332.0102.1		G7.432.0102.1	
			2.0 m	G7.032.0202.1		G7.332.0202.1		G7.432.0202.1	
			3.0 m	G7.032.0302.1		G7.332.0302.1		G7.432.0302.1	
			4.0 m	G7.032.0402.1		G7.332.0402.1		G7.432.0402.1	
			5.0 m	G7.032.0502.1		G7.332.0502.1		G7.432.0502.1	
			6.0 m	G7.032.0602.1		G7.332.0602.1		G7.432.0602.1	
			7.0 m	G7.032.0702.1		G7.332.0702.1		G7.432.0702.1	
			8.0 m	G7.032.0802.1		G7.332.0802.1		G7.432.0802.1	
									
				¹⁾ Modification of the sheath/insulation strip lengths available on request ²⁾ Halogen free on request ³⁾ Other lengths available on request					

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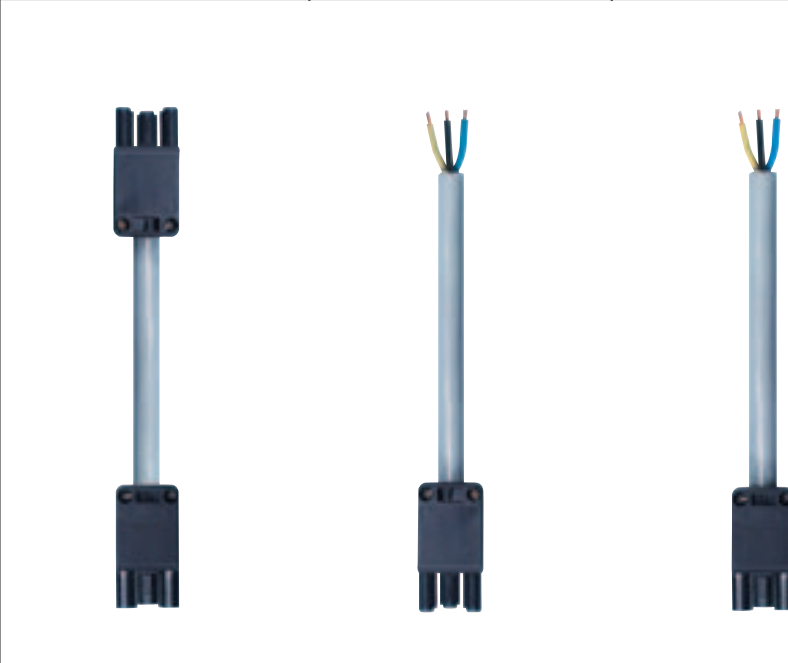
Extender lead		Starter lead		Connection lead		
	3 x 2.5 mm² female – male	3 x 2.5 mm² female – free end¹⁾	3 x 2.5 mm² male – free end¹⁾			
Colour: green Standard cable Type: FG70M ²⁾ Insulation: Special thermoplastic						
Length ³⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	G7.032.0103.1		G7.332.0103.1		G7.432.0103.1	
2.0 m	G7.032.0203.1		G7.332.0203.1		G7.432.0203.1	
3.0 m	G7.032.0303.1		G7.332.0303.1		G7.432.0303.1	
4.0 m	G7.032.0403.1		G7.332.0403.1		G7.432.0403.1	
5.0 m	G7.032.0503.1		G7.332.0503.1		G7.432.0503.1	
6.0 m	G7.032.0603.1		G7.332.0603.1		G7.432.0603.1	
7.0 m	G7.032.0703.1		G7.332.0703.1		G7.432.0703.1	
8.0 m	G7.032.0803.1		G7.332.0803.1		G7.432.0803.1	

GST 18i 3 pole 250 V, 16 A

			Extender lead		Starter lead		Connection lead		
Cable: FROR Insulation: PVC				3 x 1.5 mm² female – male		3 x 1.5 mm² female – free end¹⁾		3 x 1.5 mm² male – free end¹⁾	
Cable assemblies			Colour: grey Standard cable Type: FROR ²⁾ Insulation: PVC						
Application	Coding	Colour	Length ³⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
Mains with earth	Code 1 Female N PE L Male L PE N	black	1.0 m	G7.033.0102.1		G7.333.0102.1		G7.433.0102.1	
			2.0 m	G7.033.0202.1		G7.333.0202.1		G7.433.0202.1	
			3.0 m	G7.033.0302.1		G7.332.0302.1		G7.433.0302.1	
			4.0 m	G7.033.0402.1		G7.333.0402.1		G7.433.0402.1	
			5.0 m	G7.033.0502.1		G7.333.0502.1		G7.433.0502.1	
			6.0 m	G7.033.0602.1		G7.333.0602.1		G7.433.0602.1	
			7.0 m	G7.033.0702.1		G7.333.0702.1		G7.433.0702.1	
			8.0 m	G7.033.0802.1		G7.333.0802.1		G7.433.0802.1	
									
			¹⁾ Modification of the sheath/insulation strip lengths available on request ²⁾ Halogen free on request ³⁾ Other lengths available on request						

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Extender lead		Starter lead		Connection lead		
	3 x 2.5 mm² female – male	3 x 2.5 mm² female – free end¹⁾	3 x 2.5 mm² male – free end¹⁾			
Colour: grey Standard cable Type: FROR ²⁾ Insulation: PVC						
Length ³⁾	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
1.0 m	G7.033.0103.1		G7.333.0103.1		G7.433.0103.1	
2.0 m	G7.033.0203.1		G7.333.0203.1		G7.433.0203.1	
3.0 m	G7.033.0303.1		G7.333.0303.1		G7.433.0303.1	
4.0 m	G7.033.0403.1		G7.333.0403.1		G7.433.0403.1	
5.0 m	G7.033.0503.1		G7.333.0503.1		G7.433.0503.1	
6.0 m	G7.033.0603.1		G7.333.0603.1		G7.433.0603.1	
7.0 m	G7.033.0703.1		G7.333.0703.1		G7.433.0703.1	
8.0 m	G7.033.0803.1		G7.333.0803.1		G7.433.0803.1	



Distribution units

*Distribution boxes
WIV distribution units
RAN terminal boxes*

General

The connectable distribution units are divided into three groups:

Distribution boxes:

They can also be mounted in narrow installation areas due to their low profile. There are several standard versions available of the "black box" and "grey box". Special component sets are available according to customer requirements.

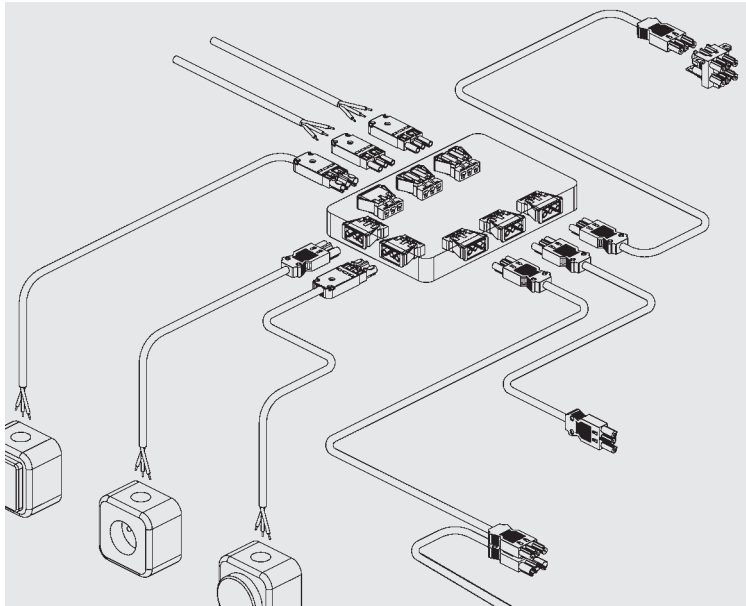
WIV distribution units:

When building exhibition stands, a reliable and quick electrical installation is required above all. Fully connectable, surface-mounted distribution boards are available for this purpose. They are equipped with GST 18i3 / GST 18i5 / Schuko and CEE outgoing units which are all protected against short circuits via RCCBs and MCBs.

RAN terminal boxes:

These terminal boxes can make all the devices that are necessary for the electrical installation into connectable components.

Application example



Fully equipped according to customer requirements, with the correct size, wired and tested, they simply need to be plugged in on site.

gesis Distribution boards offer

Your benefits

general:

- Complete connectivity of inputs and outputs
- Wiring and components according to customer requirements
- 100% routine test during production

Distribution boxes:

- Plastic housing
- Variants for standard applications
- Low profile

WIV distribution units for exhibitions:

- Standard hood-type distribution units/surface-mounted
- Incoming supply via CEKON plug with connection cable
- All outgoing circuits are protected against short circuit via RCDs and MCBs
- GST 18i... outputs, Schuko and CEKON socket-outlets

gesis RAN terminal boxes:

- Steel housing, size according to customer requirements
- Fitted with DIN rail mounted devices (electronics, remote switches, modular terminals etc.)
- Wiring according to requirements

- Time savings during the installation. Rapid reaction capability in event of changes
- Optimum adaptation to the required application
- Error-free installation and commissioning

- Cost-effective
- Short delivery times
- Suitable for compact installation areas

- Robust standardised housing
- Can be connected anywhere
- Fused outgoing units are independent of the installation site
- Short installation periods, conventional connectors can be attached

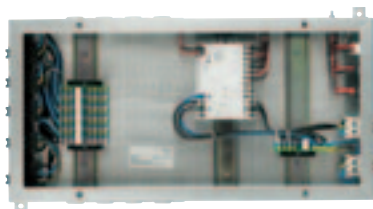
- Optimum use of space
- All applications can be implemented
- Reduction of installation costs



gesis[®] RAN

Terminal boards for applications in building installation technology

- Housing: galvanised sheet steel, earth connection
- Cover: quick-release lock and earth connector
- Size: from 100 x 200 x 50 up to 1000 x 500 x 120 in mm (L x W x H)



Description:

- TS 35 mounting rail (DIN EN 50 022) for locating terminals, DIN rail mounted devices etc.
- Modular terminal blocks with spring-loaded or screw connection
- Bus components (additional elements that are not manufacturer- or system-dependent)
- Internal wiring related to the building
- Pouch for circuit diagram
- **gesis** -snap-in connectors for:
 - mains (230/400 V), 3/5 pole
 - shutter (230 V), 3/5 pole
 - bus/control cable (50 V), 2/3 pole
 - combined application for mains + bus/control cable dimming
- Supplied complete from one source
- Ideal interface to building installation with **gesis**-system components
- Devices can be individually manufactured and equipped according to your requirements
- Fully wired and tested
- Supplied ready for installation on site
- Labelling according to diagram
- Coding of all the connectors
- Universal connector system up to the consumer device
- Fast, cost effective installation
- VDE-Approval in preparation

Take advantage of our service: **gesis[®] RAN** terminal boards fully equipped to meet your requirements

Distribution box ("Black Box") with integrated locking device

- up to 8 module ports
- can be fitted as required with 3, 4 and 5 pole male and female connectors
- Internal wiring can be selected according to the application



L = 170 mm
W = 120 mm
H = 30 mm

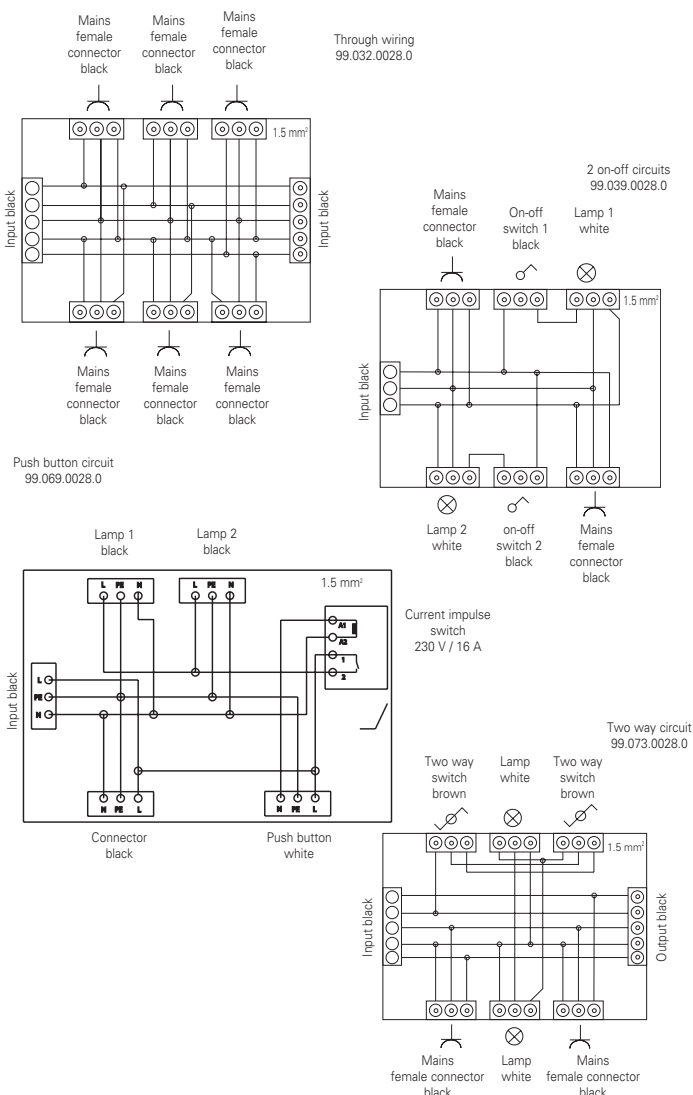
Distribution box ("Grey Box") with integrated locking device

- up to 12 module ports
- can be fitted as required with 3, 4 and 5 pole male and female connectors
- internal wiring can be selected according to the application

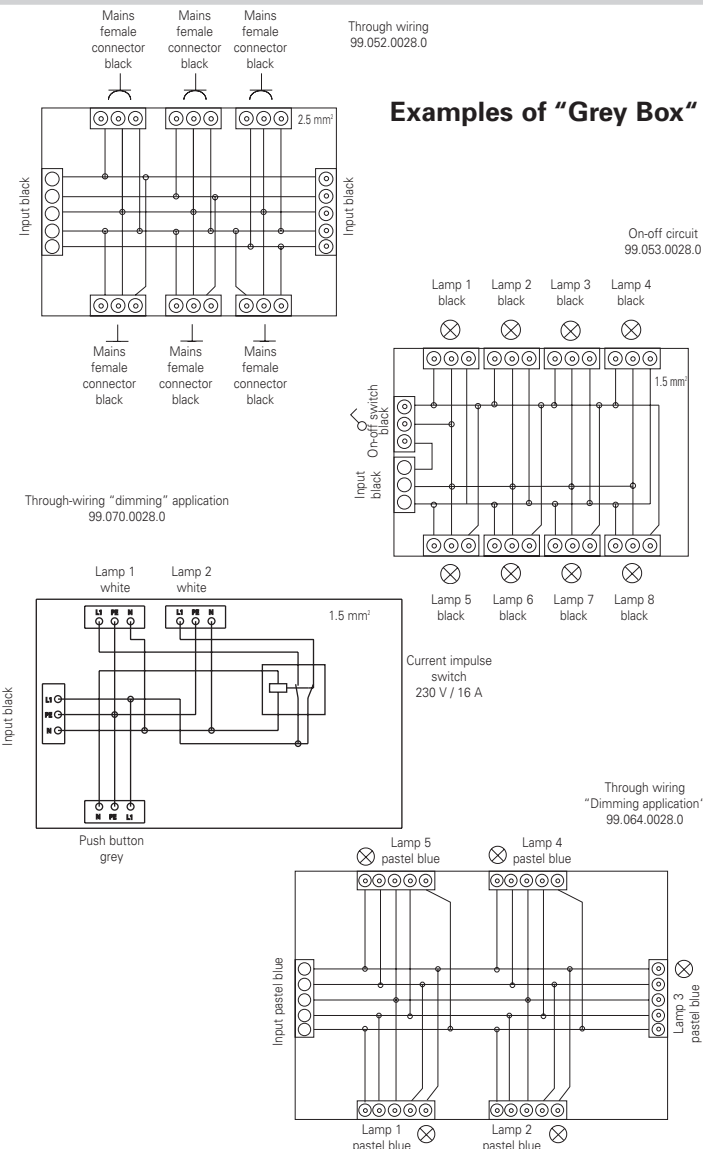


L = 240 mm
W = 160 mm
H = 30 mm

Examples of "Black Box"



Examples of "Grey Box"



Other circuits are available at any time depending on demand and customer requirements

WIV

Wieland distribution unit

- Incoming supply via CEE plug
- Plug-in outgoing units
- Connection to the terminal units via GST 18i3 or GST 18i5 connector system

Anyone who builds exhibition stands or fits out similar movable structures knows the ever recurring problem of combining opposing factors: accuracy and time pressures, functionality and narrow spaces, reliability and ease of operation.

The **WIV** distribution units were specially developed for electrical installation on site. With these further components of the Wieland installation management system, the supply and distribution of power is now in one place.

The **WIV** distribution units are both manageable and

easy to install. They are compact, comprehensible and ready for operation in no time. They are also particularly suitable for the extension or simplification of existing installations and can be put into operation without any problems.

WIV are pre-wired power distribution units for direct connection to a three-phase power supply via a CEKON plug. The distribution is carried out via the proven compact connector GST 18i which is widely used when building exhibition stands and fitting out shops.

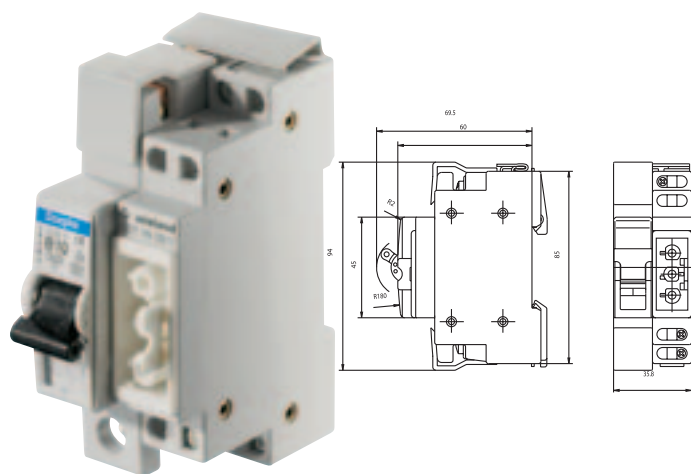
Each of the circuits is individually fused. The distribution board is protected with an RCCB. Several connections can be switched on or off via a common master switch. If required, emergency lighting or cooling systems for example can be supplied with power via a non-switched outgoing unit.

WIV junction box	400/230 V AC 16 A	400/230 V AC 16 A	400/230 V AC 32 A	400/230 V AC 32 A	400/230 V AC 32 A	400/230 V AC 32 A	400/230 V AC 63 A	400/230 V AC 63 A	400/230 V AC 63 A	400/230 V AC 63 A
Supply										
Connection power in CDS	10	20	20	20	20	20	40	40	40	40
with rubber insulated cable, length: 3 m incl. strain relief and bending protect.	16	32	32	32	32	32	63	63	63	63
Conductor cross section in mm ²	5x4	5x6	5x6	5x6	5x6	5x6	5x10	5x10	5x10	5x10
Integrated components										
Main switch, 3 pole	1	1	1	1	1	1	1	1	1	1
FI circuit breaker, 4 pole I $\Delta N \leq 30$ mA in A	40	40	40	40	40	40	63	63	63	63
Trip-free circuit breaker B16A 1 pole	15	16	17	17	16	18	34	38	38	38
Outputs (all protected via FI and B16)										
connected outputs (L, N, ground) (via main switch)										
GST 18i3 white	12	12	12	9	2	2	26	26	26	2
Grounding outlet	1	1	–	1	–	–	5	4	4	3
non-connected outputs (L, N, earth)										
GST 18i5 black	2	2	2	–	–	–	2	2	2	2
Grounding outlet	–	1	1	1	2	1	1	1	–	1
connected outputs (L1, L2, L3, N, earth) (via main switch)										
GST 18i5 white	–	–	1	2	4	4	–	–	–	8
CEE outlet (400 V, 16 A)	–	–	1	–	–	1	–	2	1	2
CEE outlet (400 V, 32 A)	–	–	1	–	–	–	–	–	1	–
Dimensions/ weight										
Width/height/depth in mm	250/395/140	250/395/140	250/395/140	250/395/140	250/395/140	250/395/140	500/395/140	500/395/140	500/395/140	500/395/140
Weight in kg	7,4	8,3	8,4	8,4	8,4	8,4	17,5	18	18	18
Part number	93.053.5000.0	93.053.6000.0	93.053.6004.0	93.053.6005.0	93.053.6006.0	93.053.6007.0	93.053.7000.0	93.053.7001.0	93.053.5002.0	93.053.5003.0

System socket-outlet
with miniature circuit breaker

- can be DIN rail mounted
- miniature circuit-breaker 10A
- female connector
- further connection with components of the GST 18i3 range

Part No.	Box Qty
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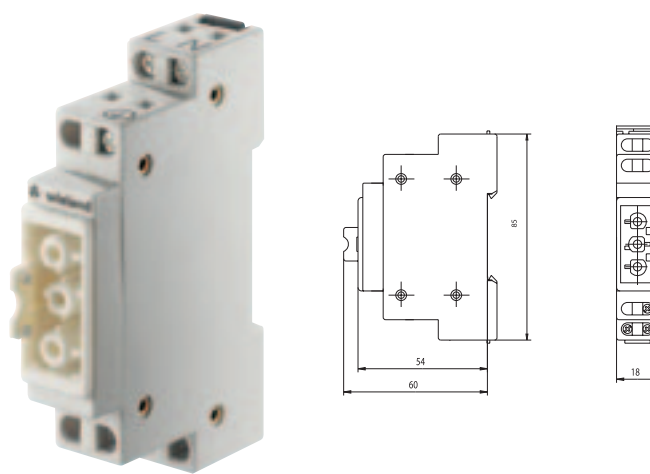
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Type GST 18i3 B10

System socket outlet

- can be DIN rail mounted
- female connector
- further connection with components of the GST 18i3 range
- max. current 16 A

Part No.	Box Qty
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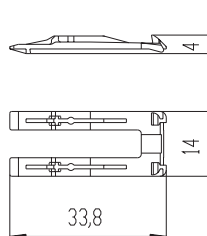
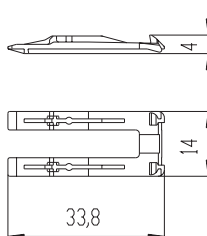


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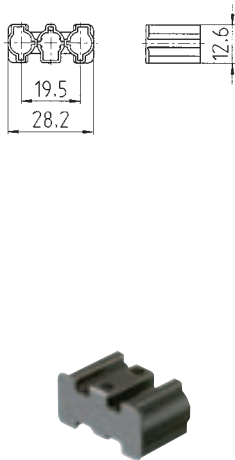
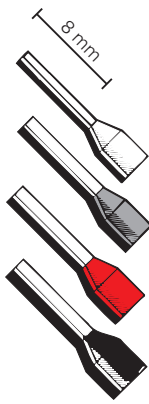
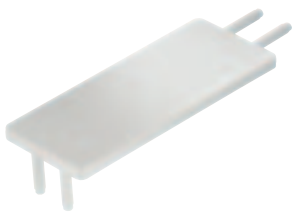
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Type GST 18i3

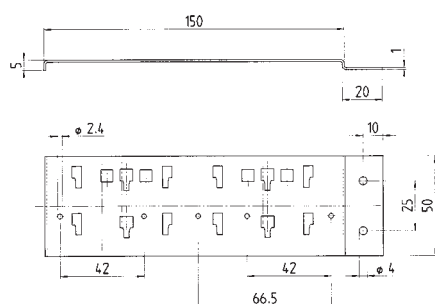


	Locking device for free cable connection, latchable for female and male connectors, GST 18i 3, 4 and 5 pole (VDE 0628 requires the use of a locking device)	Locking device for soldered components GST 18i3 4 and 5 pole, latchable on female and male connectors (VDE 0628 requires the use of a locking device)	Inter-locking slide for snap-in connector¹⁾ GST 18i 3, 4 and 5 pole (VDE 0628 requires the use of a locking device)	Inter-locking slide for distribution blocks for retrofitting¹⁾ GST 18i 3 and 5 pole (VDE 0628 requires the use of a locking device)																				
																								
Colour	Part No. Box Qty	Part No. Box Qty	Part No. Box Qty	Part No. Box Qty																				
black	05.587.3156.1 50	05.590.4556.1 50	05.584.0153.0 100	05.588.5753.1 50																				
white	05.587.3156.0 50	05.590.4556.0 50	05.584.0153.2 100	05.588.5753.0 50																				
Required locking devices <table><tr><td>Combinations of locking devices</td><td>Incoming supply EIB V</td><td>Incoming supply EIB M</td><td>GST/EST connector (only in snap-in and distribution blocks)</td><td>GST soldered components</td></tr><tr><td>Flat cable adapter GST/EST mains 3 pole</td><td>—</td><td>—</td><td>05.587.3156.1 05.587.3156.0</td><td>05.590.4556.1 05.590.4556.0</td></tr><tr><td>Flat cable adapter GST/EST 5 pole mains</td><td>05.590.4556.1 05.590.4556.0</td><td>05.590.4556.1 05.590.4556.0</td><td>05.587.3156.1 05.587.3156.0</td><td>05.590.4556.1 05.590.4556.1</td></tr><tr><td>GST/EST connector (only snap-in and distribution blocks)</td><td>05.587.3156.1 05.587.3156.0</td><td>05.587.3156.1 05.587.3156.0</td><td>05.587.3156.1 05.587.3156.0</td><td>05.590.4556.1 05.590.4556.2</td></tr></table>					Combinations of locking devices	Incoming supply EIB V	Incoming supply EIB M	GST/EST connector (only in snap-in and distribution blocks)	GST soldered components	Flat cable adapter GST/EST mains 3 pole	—	—	05.587.3156.1 05.587.3156.0	05.590.4556.1 05.590.4556.0	Flat cable adapter GST/EST 5 pole mains	05.590.4556.1 05.590.4556.0	05.590.4556.1 05.590.4556.0	05.587.3156.1 05.587.3156.0	05.590.4556.1 05.590.4556.1	GST/EST connector (only snap-in and distribution blocks)	05.587.3156.1 05.587.3156.0	05.587.3156.1 05.587.3156.0	05.587.3156.1 05.587.3156.0	05.590.4556.1 05.590.4556.2
Combinations of locking devices	Incoming supply EIB V	Incoming supply EIB M	GST/EST connector (only in snap-in and distribution blocks)	GST soldered components																				
Flat cable adapter GST/EST mains 3 pole	—	—	05.587.3156.1 05.587.3156.0	05.590.4556.1 05.590.4556.0																				
Flat cable adapter GST/EST 5 pole mains	05.590.4556.1 05.590.4556.0	05.590.4556.1 05.590.4556.0	05.587.3156.1 05.587.3156.0	05.590.4556.1 05.590.4556.1																				
GST/EST connector (only snap-in and distribution blocks)	05.587.3156.1 05.587.3156.0	05.587.3156.1 05.587.3156.0	05.587.3156.1 05.587.3156.0	05.590.4556.1 05.590.4556.2																				
			¹⁾ Note: Catalogue products are equipped with a locking device as standard	¹⁾ Note: Catalogue products are equipped with a locking device as standard																				

Accessories

End cap for female connectors GST18i 3 pole for covering unused openings in outgoing unit	Cable ferrules with insulating shrouds for conductors of 0.5 – 15 mm², in accordance with DIN 46 228 T4 Materials: Shroud: Polypropylene, thermal stability 105 °C, resistant to creepage Tubes: copper with galvanised tn coating	Crimping tool for crimping points in spring-loaded technology for ferrules 0.08 – 6 mm², AWG 28 - 10 • square crimping • releasable positive lock-out device • adjustable crimping pressure Total length: 174 mm	Unlocking tool for releasing male or female rewirable connectors from snap-in connectors
			
Part No. Box Qty 05.561.3653.1100 05.561.3653.0100	Part No. Box Qty 0.5 mm² white 06.600.2027.0 0.75 mm² grey 06.600.2127.0 1.00 mm² red 06.600.2227.0 1.50 mm² black 06.600.2327.0	Part No. Box Qty 95.101.1300.01	Part No. Box Qty 99.010.9910.0

Fixing plate for distribution blocks 5 pole; 5/3 pole Only in connection with mounting plate 3 pole (with fixing option)



Component sets

	Distribution block 5 pole 5/3 pole	Distribution block with fixing option 3 pole
	92.050.0353.1 92.050.0153.1	92.030.4853.1 92.030.4853.0 92.030.5353.1 92.030.5353.0
Mounting plates	07.413.5553.1	07.413.5453.1
	2x	-
	1x	1x
	-	2x
	1x	1x
	-	1x

Cut off spigot for plastic strain reliefs of **GST 18i** range. Leave spigot for use with 3 pole Metalyx.

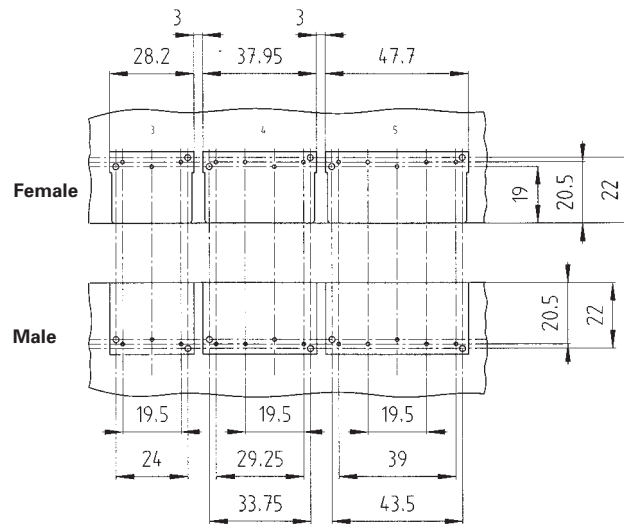




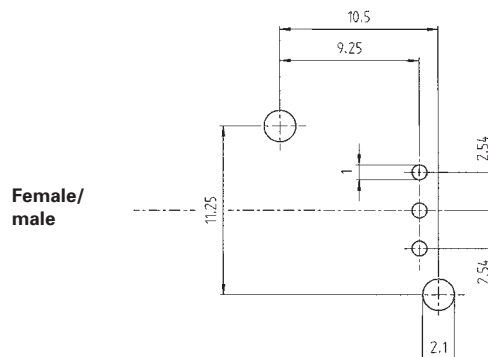
<i>Subject</i>	<i>page</i>
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Hole templates for soldered connectors

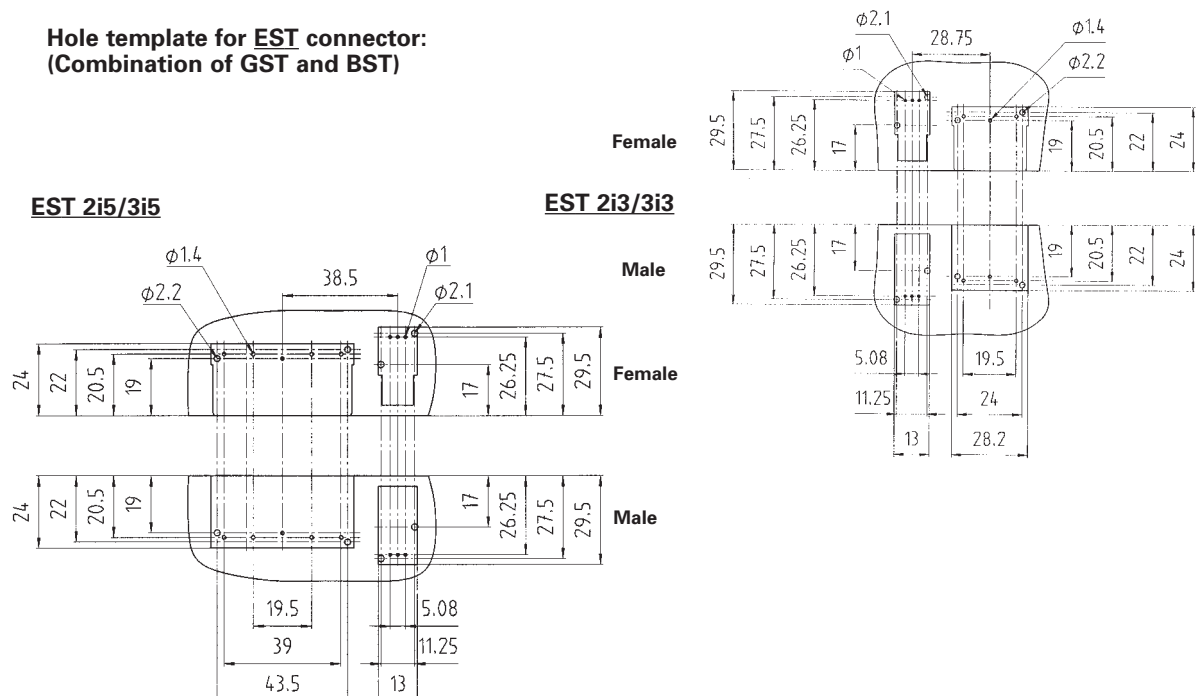
Hole template for
GST 18 soldered connector:



Hole template for
BST 14 soldered connector:



Hole template for **EST** connector:
(Combination of GST and BST)



Technical data

Rated voltage:	250 V~, 250/400 V~
Rated current:	16 A 20 A on request
Number of poles:	3 pole (L, N, E) to 5 pole (L1, L2, L3, N, E)
Regulations:	DIN VDE 0628 for all types DIN VDE 0606 T1535 (EN/IEC 61535) in preparation DIN VDE 0625, EN 60320; IEC 60320 3 pole latch components, prefabricated 1.5 mm ² cables DIN VDE 0628; statement of conformity according to EN 60320, IEC 60320; without prefabricated cables and flat system: UL, LR, DNV.
Approval:	IP 20, DIN VDE 0470 section 1/11.92
Type of protection:	Pre-cut cable with connectors (Crimp version) PVC sheathed cable with finely stranded conductors according to DIN VDE 0250 and VDE 0281 section 402
Cable:	H05VV-F
Type of cable:	1.5 mm ² and 2.5 mm ²
Cable cross section:	1.5 mm ² and 2.5 mm ²
Cable diameter:	3 x 1.5 mm ² = 8.3 mm 3 x 2.5 mm ² = 10.2 mm 5 x 2.5 mm ² = 12.3 mm
Cable with free end:	Sheath strip length: 35 mm Insulation strip length: 7 mm, extendable on request 3 pole conductors with ultrasonically welded conductor ends (equivalent to a solid conductor) Diameter: 1.5 mm ² Δ 1.6 mm conductor ends of 5 pole cables have ferrules Dimensions approx. 2.3 x 2.8 mm Diameter: 2.5 mm ² Δ 2.1 mm Screw version 0.5 – 2.5 mm ² single core and finely stranded e.g. NYM Terminal screws M3 connecting torque: 0.5 – 0.7 Nm Crimp version: 1.5 – 2.5 mm ² (finely stranded) Prefabricated cables only Spring loaded single core: 0.5 – 2.5 mm ² finely stranded: 0.5 – 1.5 mm ² with ferrules
Wire range:	Insertion and withdrawal under full load according to VDE 0625 approx. 50 – 100 connections with 16 A (resistive load) for every 200 connection cycles – insertion force: approx. 30 – 40 N – withdrawal force: approx. 20 – 30 N Integrated into housing
Connection cycles:	
Insertion/withdrawal force:	
Strain relief:	
Volume resistance:	0.8 m Ω (approximate value per male and female connection) corresponds to of 1.5 mm ² approx. 10 cm

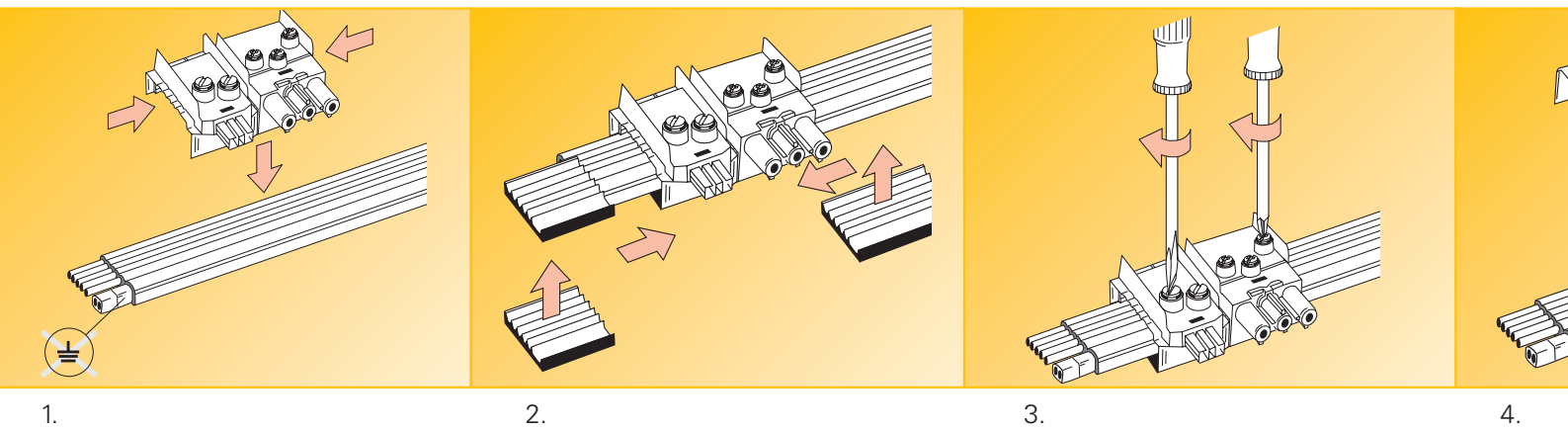
Rated impulse voltage:	4 kV for 250 V and 250/400 V (with pollution degree 2)
Materials:	Insulating – thermo plastic material components: (Polyamide), halogen free Contact parts – brass with nickel plating Screws – galvanised chrome steel Cable: 70 °C Insulating components: 100 °C Pollution degree 2 according to DIN VDE 0110 section 1 Definition: There are only non- electroconductive dirt particles present. They may become occasionally become electroconductive for short periods due to moisture condensation. Example: Rooms in houses, shops and other commercial properties.
Continuous temperature:	
Environmental conditions:	Interconnecting cable: 5 x 2.5 mm ² = 0.40 kWh + 0.8 kWh/m 3 x 2.5 mm ² = 0.15 kWh + 0.5 kWh/m 3 x 1.5 mm ² = 0.16 kWh + 0.4 kWh/m Supply connection cables to loads: 5 x 2.5 mm ² = 0.20 kWh + 0.8 kWh/m 3 x 2.5 mm ² = 0.07 kWh + 0.5 kWh/m 3 x 1.5 mm ² = 0.08 kWh + 0.4 kWh/m Distribution board GST 18i3 V3 P1 = 0.13 kWh Distribution board GST 18i3 V5 P1 = 0.20 kWh Distribution board GST 18i5 V3 P1 = 0.30 kWh Initial connection, outgoing supply plug: 3 pole = 0.11 kWh 4 pole = 0.16 kWh 5 pole = 0.20 kWh 3 pole latch component = 0.06 kWh Mechanical coding, identified by colour. Black and white have the same coding. All components are available in these colours. Protection against shock generally guaranteed, even when disconnected. Protective conductor is the leading contact in three phase current: PE before N before L. Connection to the live cable must be made with a female connector according to the regulations. It is therefore not possible to have a ring circuit arrangement. Not interchangeable with other connector systems; can only be connected in the current phase sequence; 1 pole cannot be connected. Locking device in accordance with DIN VDE 0628.
Fire load:	
Coding:	
General:	Insertion and withdrawal is possible under load in accordance with DIN VDE 0625. Contacts safeguarded against tensile load on the cable. All components are interlockable. A locking device must be provided to comply with certification according to DIN VDE 0628
Note:	
VDE regulations:	
VDE 0606:	Section 1535 in preparation (EN/IEC 61535 currently draft 23/256/CDV) based on VDE 0628
Title:	Installation connectors
VDE 0625:	(EN 60320, IEC 60320)
Title:	Appliance couplers for domestic and similar use
VDE 0628:	National regulation
Title:	Installation connectors up to 400 V / 250 V / 16 A for connection in installation systems

Technical data

	Mains	EIB Bus
Rated voltage:	250 V/400 V	50 V
Rated current:	16 A	3 A
Number of poles:	3 pole (L, N, PE) 5 pole (L1, L2, L3, N, PE)	2 pole (+, -) 3 pole (on request)
Regulations:	VDE 0628 Preliminary draft IEC 61535	Based draft IEC 61535 EIB manual (in preparation)
Approval:	in accordance with EIB manual (in preparation)	
Type of protection:	IP 20, DIN VDE 0470 section 1/11.92	
Cable:	Combination cable for mains and bus, type LiYY ... Mains similar to H05VV, bus 1 x 2 x 0.8 PIMF, similar to I (Y) STY	Similar to I (Y) STY 2 x 2 x 0.8 according to EIB guidelines
Cable cross section:	1.5/2.5 mm ²	0.5 mm ²
Cable diameter:	Combination cable 3 x 1.5 mm ² = 8.3 5 x 2.5 mm ² = 12.3	2 x 2 x 0.8 = 6 mm 6 mm; total width: 14.8 6 mm; total width: 18.8
Cable with free end:	Ferrules: 8 mm 1.5 mm ² = Ø 1.6 mm 2.5 mm ² = 2.3 x 2.8 mm	Insulation strip length: 8 mm
Wire range:	Screw version: 0.5 - 2.5mm ² single-core/finely stranded Integrated into housing, available in black or white	Spring-loaded: 0.25 – 0.75 mm ² single-core/finely stranded
Strain relief:	Integrated into housing, available in black or white	
Volume resistance:	approx. 0.8 mΩ	approx. 5 mΩ (approximate value per male and female connection)
Rated impulse voltage:	Pollution degree 2 4 kV for 250 V and 250/400 V	Pollution degree 2 4 kV for mains, 0.8 kV for bus
Materials:	Insulating components - thermoplastic material, halogen free Contact parts: - brass with nickel plating - bronze with nickel plating	
Continuous temperature:	Cable: 70 °C, Insulating components: 100 °C	
Fire load:	Extension cable Twin cable 5 x 2.5 mm ² + 1 x 2 x 0.8 = 0.50 kWh +1.52 kWh/m Twin cable 3 x 1.5 mm ² + 1 x 2 x 0.8 = 0.34 kWh +0.83 kWh/m EIB Bus cable 2 x 2 x 0.8 = 0.24 kWh +0.15 kWh/m Connection cable Twin cable 5 x 2.5 mm ² + 1 x 2 x 0.8 = 0.25 kWh +1.52 kWh/m Twin cable 3 x 1.5 mm ² + 1 x 2 x 0.8 = 0.17 kWh +0.83 kWh/m EIB Bus cable 2 x 2 x 0.8 = 0.24 kWh +0.15 kWh/m Connector EST 2 i3 = 0.17 kWh EST 2 i5 = 0.25 kWh BST 14 i2 = 0.12 kWh	
Coding:	Mechanical coding Mains connectors: GST 18 i ..., coding colour: black or white Bus connector: Coding according to EIB regulations (Colour: green) Coding dimming: (Colour: pastel blue)	
General:	The live component must be a female connector according to regulations. It is not possible to install cable in a ring circuit. In principle, not interchangeable with other connector systems available on the market. Mechanical coding only possible using the correct phase sequence. Protection against electric shock is guaranteed even when disconnected. EIB coding can be visually identified by green colouring. All the components can be locked together.	

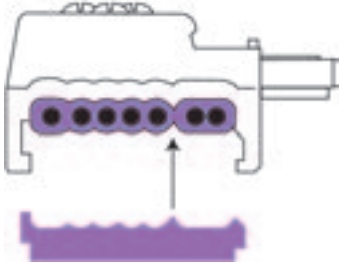
Technical data

	Mains	Control signal
Rated voltage:	250 V/400 V	50 V
Rated current:	16 A	3 A
Number of poles:	3 pole (L, N, PE) 5 pole (L1, L2, L3, N, PE)	3 pole
Regulations:	VDE 0628	Based on draft IEC 61535 Preliminary draft IEC 61535
Approval:	in preparation	
Type of protection:	IP 20, DIN VDE 0470 part 1/11.92	
Cable:	Combination cable for mains and bus, type LiYY ... Mains: similar H05VV, bus 1 x 2 x 0.8, PIMF, similar I(Y)STY control cable; I(Y)STY 2 x 2 x 0.8	
Cable cross section:	1.5/2.5 mm ² Combination cable twin cord	0.5 mm ²
Cable diameter:	3 x 1.5 mm ² = 8.3 mm 5 x 2.5 mm ² = 12.3 mm	2 x 2 x 0.8 = 6 mm 6 mm; total width: 14.8 6 mm; total width: 18.8
Cable with free end:	ferrules: 8 mm 1.5 mm ² = Ø 1.6 mm 2.5 mm ² = Ø 2.3 x 2.8 mm	8 mm, solid conductor
Wire range:	screw version 0.5–2.5 mm ² single core/finely stranded	spring loaded 0.25–0.75 mm ² single core/finely stranded
Strain relief:	Integrated into housing, available in black or white	
Volume resistance:	approx. 0.8 mΩ	approx. 5 mΩ (approximate value per male and female connection)
Rated impulse voltage:	Pollution degree 2 4 kV for 250 V and 250/400 V	Pollution degree 2 4 kV for mains, 0.8 kV Bus
Materials:	Insulating components: Thermoplastic material, halogen-free Contact parts: Brass Bronze	
Continuous temperature:	Cable: 70 °C, Insulating components: 100 °C	
Fire load:	Extension cable Twin cord 5x2.5 mm ² + 1x2x0.8 = 0.5 kWh + 1.52 kWh/m Twin cord 3x1.5 mm ² + 1x2x0.8 = 0.34 kWh + 0.83 kWh/m EIB bus cable 2x2x0.8 = 0.24 kWh + 0.15 kWh/m Connection cable Twin cord 5x2.5 mm ² + 1x2x0.8 = 0.25 kWh + 1.52 kWh/m Twin cord 3x1.5 mm ² + 1x2x0.8 = 0.17 kWh + 0.83 kWh/m EIB Bus cable 2x2x0.8 = 0.15 kWh/m Connector EST 3 i3 = 0.17 kWh EST 3 i5 = 0.25 kWh BST 14 i3 = 0.12 kWh	
Coding:	Mechanical coding Signal connector: Wieland coding GST 18i ..., Colour black or white	
General:	The live component must be a female connector according to regulations. It is not possible to install cable in a ring circuit. In principle, not interchangeable with other connector systems available on the market. Mechanical coding only possible using the correct phase sequence. Protection against electric shock is guaranteed even when disconnected. Control signal coding can be visually identified by black colouring. All the components can be locked together.	

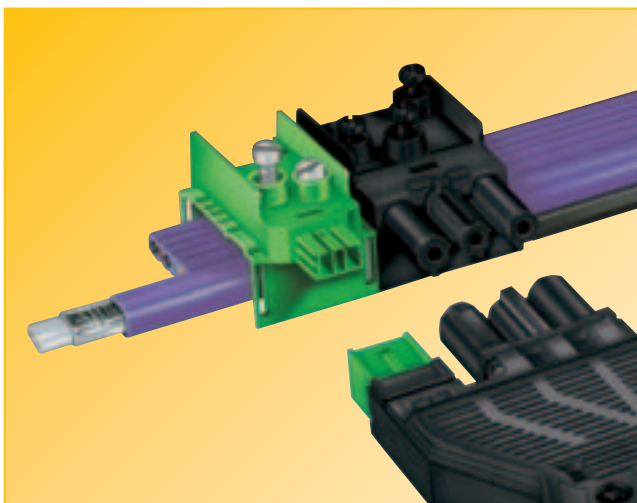
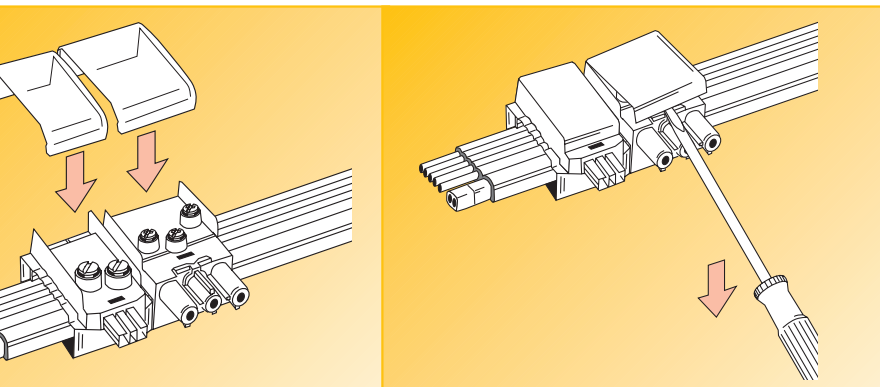
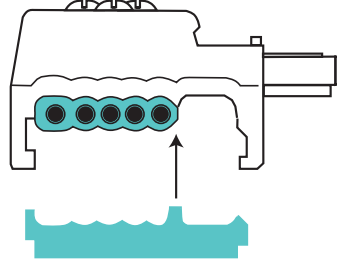


Installation instructions

7 pole Flat cable system



5 pole Flat cable system



1. When connecting flat cable adapters for mains and EIB bus/control signal, note the latching side (3 pole on the left, 5 pole on the right). Latch the components together. Place the terminal block on the flat cable, observing the coding on the cable.
2. Slide on the base plate – note the coding of the terminal block and cable (see diagram on the left). The grooves on the terminal block as well as on the base plate indicate the correct position of the adapter on the cable. If it is not positioned correctly, it is only possible to slide on the base plate using a great deal of force. The unit must then be rotated by 180°.
3. Turn the slotted screws in the flat cable until they reach the stop
Mains: torque = 0.7 Nm
Bus: torque = 1.0 Nm
4. Place the cover on top.

Additional notes:

- When fixing on the connectors, a locking device must be provided.
- To remove the cover, insert the screwdriver in the slot provided and lift gently.
- The ends of the flat cable must be terminated with the cable end cap. This guarantees the necessary insulation between bus conductors and power cables.
- Once the adapter has been removed, the sections of cable that have been bonded with piercing screws must be sealed with insulating tape.
- Caution: Do not connect the screen to earth.
- The function can only be guaranteed if original flat cable is used.

Technical data

Components:

	Mains	
Connection technology	Insulation-piercing contacts with plug-in outgoing circuit in accordance with Wieland GST coding	
Terminal screws:	Tightening torque: 0.8 Nm	
Rated voltage:	250 V/400 V	
Rated current:	16 A	
Number of poles:	3, 5 pole	
Regulations:	VDE 0628, preliminary draft IEC 61535 IEC 998-2-3 (insulation-piercing clamping device)	
Approval:	VDE, SEV	
Type of protection:	IP 20, DIN VDE 0470 Section1/11.92	
Connection cable for incoming supply:	Ø 5 – 13 mm	
Materials:	Insulating components: thermoplastic material, halogen free Cover: polycarbonate, transparent Contact parts: brass with nickel plating bronze with nickel plating	
Continuous temperature:	70 °C, Insulating components 100 °C	
Fire load:	Flat cable adapter GST 18i5	0.27 kWh
	Flat cable adapter GST 18i3	0.18 kWh
Coding:	Mechanical coding GST 18i, code 1, black	
General:	The voltage supply (incoming supply) in the flat cable is carried out using a screw-type flat cable adapter. The outgoing boxes can be adapted using insulation-piercing connection technology. The outgoing units themselves can be connected using gesis connector systems. The connectors must be locked with a locking device. The appropriate GST accessories should be used.	
	Please note the installation instructions on page 213.	
Note:	The functional reliability can only be guaranteed if original cable is used.	

Technical data

Flat cable

	<u>PVC</u>	<u>Halogen free</u>
Outer sheath	PVC according to CENELEC HD 21.1 S2, TM2	Thermoplastic PE compound, halogen free and no corrosive gases according to DIN VDE 0472 Section 813
Colour of sheath	Light green RAL 6027	Light green RAL 6027
Dimension (W x H)	24 x 6 mm	24 x 6 mm
Fire load	0.778 kWh/m	0.671 kWh/m
Fire behaviour	Self extinguishing according to IEC 60332.1	Self extinguishing according to IEC 60332.1 Low level of smoke development IEC 61034-1/2
Number x conductor cross section	5 x 2.5 mm ²	5 x 2.5 mm ²
Structure		
Copper conductor	bare, finely stranded according to CENELEC HD 383 S2 Class 6	bare, finely stranded according to CENELEC HD 383 S2 Class 6
Core insulation	PVC according to CENELEC HD 21.1 S2, TI2	Cross-linked, halogen free and flame resistant Earth
Colour of cores	black, brown, black, blue, yellow/green	black, brown, black, blue, yellow/green
Technical data		
Conductor cross-section	2.5 mm ²	2.5 mm ²
Test voltage	4 kV	4 kV
Rated voltage	450/750 V	450/750 V
Test current	according to IEC 60364-5-523	according to IEC 60364-5-523
DC resistance	7.98 Ω/km	7.98 Ω/km

Technical data

	Bus
Connection technology	Insulation-piercing contacts with plug-in outgoing circuit in accordance with Wieland GST, BST, EST coding
Terminal screws:	Tightening torque: 1.0 Nm
Rated voltage:	50 V
Rated current:	3 A
Number of poles:	2 pole (+,-)
Regulations:	EIB manual
Approval:	According to EIB manual
Connection cable for Incoming supply:	Ø 3 – 8 mm
Materials:	Insulating components: thermoplastic material, halogen free Cover: polycarbonate, transparent Contact parts: brass with nickel plating bronze with nickel plating
Continuous temperature:	70 °C, Insulating components 100 °C
Fire load:	Flat cable adapter BST 14i0,12 kWh
Coding:	Mechanical coding BST 14i Other coding: black
General:	The voltage supply (incoming supply) in the flat cable is carried out using a screw-type flat cable adapter. The outgoing boxes can be adapted using insulation-piercing connection technology. The outgoing units themselves can be connected using gesis connector systems. Please note the installation instructions on page 213.
Note:	The functional reliability can only be guaranteed if original cable is used.

Technical data

Flat cable

	<u>PVC</u>	<u>Halogen free</u>
Outer sheath	PVC	Thermoplastic PE Compound, halogen free
Colour of sheath	Dark grey	Dark grey
Weight	90 g/m	86 g/m
Dimension (W x H)	11 x 6 mm	11 x 6 mm
Fire load	0.48 kWh/m	0.44 kWh/m
Fire behaviour	Self extinguishing according to IEC 60332.1	Self extinguishing according to IEC 60332.1 Low level of smoke development IEC 61034-1/2
Number x conductor cross section	2 x 1.5 mm ²	2 x 1.5 mm ²
Structure		
Copper conductor	Tin-plated according to CENELEC HD 383 S2 Class 5	Tin-plated according to CENELEC HD 383 S2 Class 5
Core insulation	PE according to DIN VDE 0207 Section 2, 2YI2	PE according to DIN VDE 0207 Section 2, 2YI2
Core colours	natural	natural
Shield	Twin screen from aluminium tape, electrically isolated	Twin screen from aluminium tape, electrically isolated
Technical data		
Conductor cross-section	1.5 mm ²	1.5 mm ²
Rated voltage	300/300 V	300/300 V
Rated current	3 A	3A
DC resistance	13.7 Ω/km	13.7 Ω/km
Capacitance	70 pF/m	70 pF/m
Attenuation at 1 MHz	nom. 1.2 dB/100 m	nom. 1.2 dB/100 m
Surge impedance 1 MHz	nom. 75 Ω	nom. 75 Ω

Technical data

Components:

	Mains	Bus
Connection technology:	Insulation-piercing contact with plug-in outgoing circuit in accordance with Wieland GST, BST, EST coding	
Terminal screws:	Tightening torque: 0.8 Nm	Tightening torque: 1.0 Nm
Rated voltage:	250 V/400 V	50 V
Rated current:	16 A	3 A
Number of poles:	3/ 5 pole	2 pole (+,-)
Regulations:	VDE 0628, Preliminary draft IEC 61535 IEC 998-2-3 (insulation-piercing clamping device)	EIB manual
Approval:	VDE, SEV	According to EIB manual
Type of protection:	IP 20, DIN VDE 0470 Section1/11.92	
Connection cable for incoming supply:	Ø 5 – 13 mm	Ø 3 – 8 mm
Materials:	Insulating components: thermoplastic material, halogen free Cover: polycarbonate, transparent Contact parts: brass with nickel plating bronze with nickel plating	
Continuous temperature:	70 °C, Insulating components 100 °C	
Fire load:	Flat cable adapter GST 18i5 Flat cable adapter GST 18i3 Flat cable adapter BST 14i	0.27 kWh 0.18 kWh 0.12 kWh
Coding:	Mechanical coding GST 18i Combination connector for mains and signal, type EST 3 pole tap-off, all phases with standard GST 18i coding GST 18i3/5 colour: black EIB coding: green Other coding: black	
General:	The voltage supply (incoming supply) in the flat cable is carried out using a screw-type flat cable adapter. The outgoing boxes can be adapted using insulation-piercing connection technology. The outgoing units themselves can be connected using gesis connector systems. The connectors must be locked with the adapter. The appropriate GST accessories should be used. Please note the installation instructions on page 213.	
Note:	The functional reliability can only be guaranteed if original cable is used.	

Technical data

Flat cable

	PVC	Halogen free
Outer sheath	PVC according to CENELEC HD 21.1 S2, TM2	Thermoplastic PE Compound, halogen free and no corrosive gases according to DIN VDE 0472 section 813
Colour of sheath	Purple RAL 4005	Purple RAL 4005
Weight	353 g/m	340 g/m
Dimension (W x H)	32 x 6 mm	32 x 6 mm
Fire load	1.18 kWh/m	0.99 kWh/m
Fire behaviour	Self extinguishing according to IEC 60332.1	Self extinguishing according to IEC 60332.1
		Low risk of fire spreading according to IEC 60332-3C
		Low level of smoke development IEC 61034-1/2
Number x conductor cross section	5 x 2.5 mm ² + 2 x 1.5 mm ²	5 x 2.5 mm ² + 2 x 1.5 mm ²

Mains component

Structure		
Copper conductor	bare, finely stranded according to CENELEC HD 383 S2 Class 6	bare, finely stranded according to CENELEC HD 383 S2 Class 6
Core insulation	PVC according to CENELEC HD 21.1 S2, TI2	Cross-linked, halogen free and flame resistant
Core colours	black, brown, black, blue, yellow/green	black, brown, black, blue, yellow/green
Technical data		
Conductor cross-section	2.5 mm ²	2.5 mm ²
Test voltage	4 kV	4 kV
Rated voltage	450/750 V	450/750 V
Test current	according to IEC 60364-5-523	according to IEC 60364-5-523
DC resistance	7.98 Ω/km	7.98 Ω/km

Bus component

Structure		
Copper conductor	tin plated according to CENELEC HD 383 S2 Class 5	tin plated according to CENELEC HD 383 S2 Class 5
Core insulation	PE according to DIN VDE 0207 Section 2, 2YI2	PE according to DIN VDE 0207 Section 2, 2YI2
Colour of cores	natural	natural
Shield	Twin screen from aluminium tape, electrically isolated	Twin screen from aluminium tape, electrically isolated
Technical data		
Conductor cross-section	1.5 mm ²	1.5 mm ²
Rated voltage	300/330 V	300/330 V
Rated current	3 A	3 A
DC resistance	13.7 Ω/km	13.7 Ω/km
Capacity	70 pF/m	70 pF/m
Attenuation at 1 MHz	nom. 1.2 dB/100 m	nom. 1.2 dB/100 m
Surge impedance 1 MHz	nom. 75 Ω	nom. 75 Ω

Technical data

Pole:	2
Rated voltage:	48 V
Rated current:	25 A (only applies to male and female connectors) Prefabricated cables with fuse carrier max. 15 A
Rated cross-section:	2.5 mm ² finely stranded
Type of connection:	Screw, crimp connection
Wire range:	Screw component: min. 0.5 mm ² ; max. 2.5 mm ² single core and finely stranded without ferrule
Insulation strip length:	7 mm
Approvals:	VDE 0711 Section 1 (DIN EN 60598-1) in connection with VDE 0609 Section 1 (DIN EN 60999), VDE 0470 Section 1 (DIN EN 60529), DIN IEC 352 Section 2 Flat cable fuses in accordance with DIN 72581 Section 3 Transformer: MM, ENEC, VDE, CE
Type of protection:	IP 20 in accordance with DIN VDE 0470 Section 1/11.92
Materials:	
Insulating components:	PA 6.6 UL 94 V-0, continuous thermal stability in accordance with DIN VDE 0304, 20.000 h/5.000 h, 100/115 °C Glow wire test in accordance with DIN VDE 0471 Section 21 (IEC 695), 960 °C
Colour:	white
Metal components:	Brass with silver plating
Screw:	Galvanised chrome steel
Cable:	50 x 0.25 stranded conductors with tin plated, 2 layers, halogen-free, low flammability
Colour:	white
Diameter:	3.9 < d < 4.2 mm Continuous temperature 120 °C
Fire load:	0.064 kWh/m
Installation instructions:	Low voltage lighting installations may only be installed by experts under consideration of DIN VDE 0100 section 559 or section 559/A2 See next page for electronic transformer

Technical data

Pole:	2
Rated voltage:	48 V
Rated current:	16 A
Rated cross-section:	1.5/2.5/6 mm ²
Type of connection:	Screw or crimp connection
Wire range:	min. 0.5 mm ² max. 2.5 mm ²
Insulation strip length:	7 mm, with ferrules
Approval:	Transformer: MM, ENEC, VDE, CE
Type of protection:	IP 20 according to DIN VDE 0470 Section 1/11.92
Materials:	
Insulating components:	thermoplastic material, continuous temperature 110 °C
Colour:	white
Metal components:	Brass with nickel plating
Screw:	Galvanised chrome steel
Cable:	H05VV-F2 x 1.5 FLKK 2 x 2.5
Colour:	white
Installation instructions:	Low voltage lighting installations may only be installed by experts under consideration of DIN VDE 0100 Section 559 or Section 559/A2

Electronic transformer ST 16/ST 17

Primary version:	with pre-fabricated cable GST 18i 3 or with a pair of screw terminals with strain relief
Secondary version:	with prefabricated cable ST 16 / ST 17
Primary nominal voltage:	230 V AC, 50/60 Hz
Power range:	35-105 W
Nominal output voltage:	11.7 V
Power current in nominal mode:	0.45 V
Power factor:	0.96 c
Degree of effectiveness:	95%
Ambient temperature t_a :	max. 50 °C for maximum load
Housing temperature t_h :	max. 90 °C for maximum load
Short circuit protection:	electronic, automatic restart
Overload/temperature protection:	Automatic regulation of power up to 70% followed by disconnection
No-load operation:	Locked
Fire protection:	Disconnection in event of error
Protection class	II
Dimmable:	with TRONIC dimmer and universal dimmer
Dimensions:	175 x 42 x 18 mm

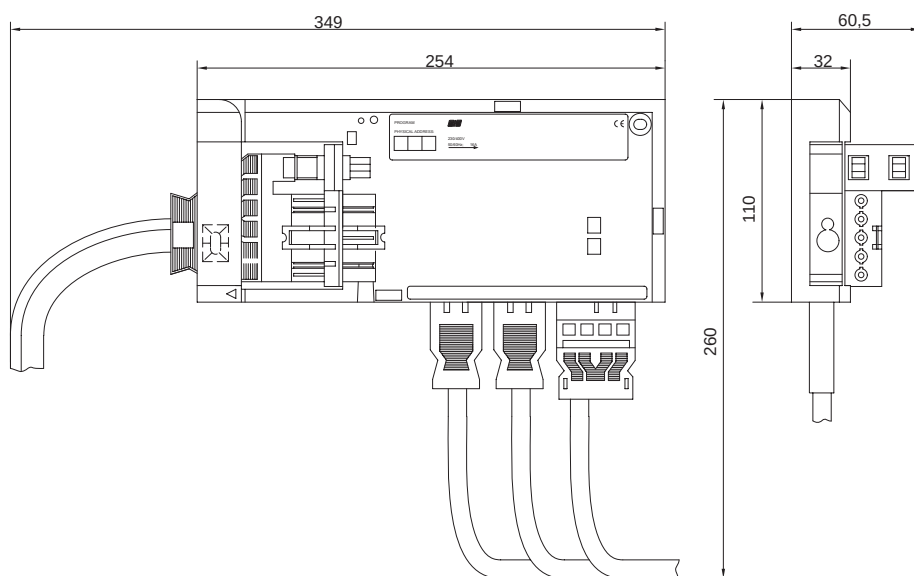
Accessories *gesis*[®] EIB V

ETS 2 Product database 	00.000.0066.1	1	You can receive the Wieland product database on diskette
	00.000.0068.0	1	or as a download from the gesis CD-Rom which is supplied with planning manual
	www.gesis.com		or download from the internet
	Part No.	Box Qty	

Mounting dimensions *gesis*[®] EIB V

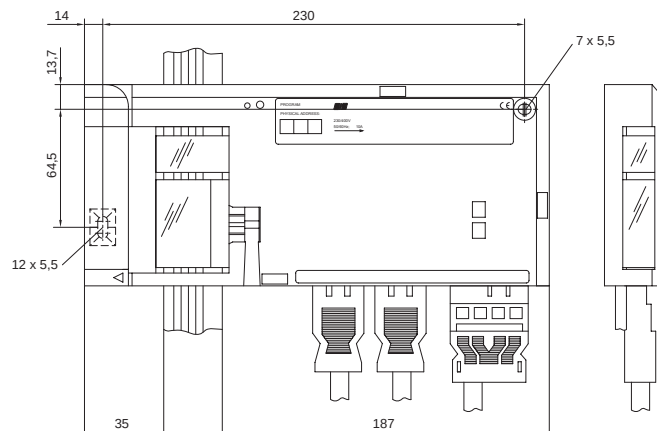
when using the round cable for supply

Dimensions in mm



when using the flat cable for supply

Dimensions in mm



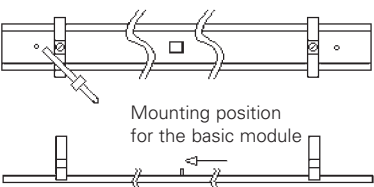
Functionality of **gesis**[®] EIB V

	Type	Part number	Functions
Device range gesis EIB V	gesis EIB V-0/2+1W	83.020.0212.0	
	Switch outputs		2; 3; 25; 26; 27
	Shutter outputs		13; 14; 24
	gesis EIB V-0/2+1W 1PH	83.020.0212.2	
	Switch outputs		2; 3; 25; 26; 27
	Shutter outputs		13; 14; 24
	gesis EIB V-0/2SD	83.020.0213.0	2; 16; 17; 18; 19; 20; 21; 23
	gesis EIB V-0/2SD 1PH	83.020.0213.2	2; 16; 17; 18; 19; 20; 21; 23
	gesis EIB V-0/4	83.020.0215.0	2; 3; 21
	gesis EIB V-0/4 1PH	83.020.0215.2	2; 3; 21
	gesis EIB V-0/2W	83.020.0216.0	13; 22
	gesis EIB V-0/2W 1PH	83.020.0216.2	13; 22

Functions **gesis**[®] EIB V

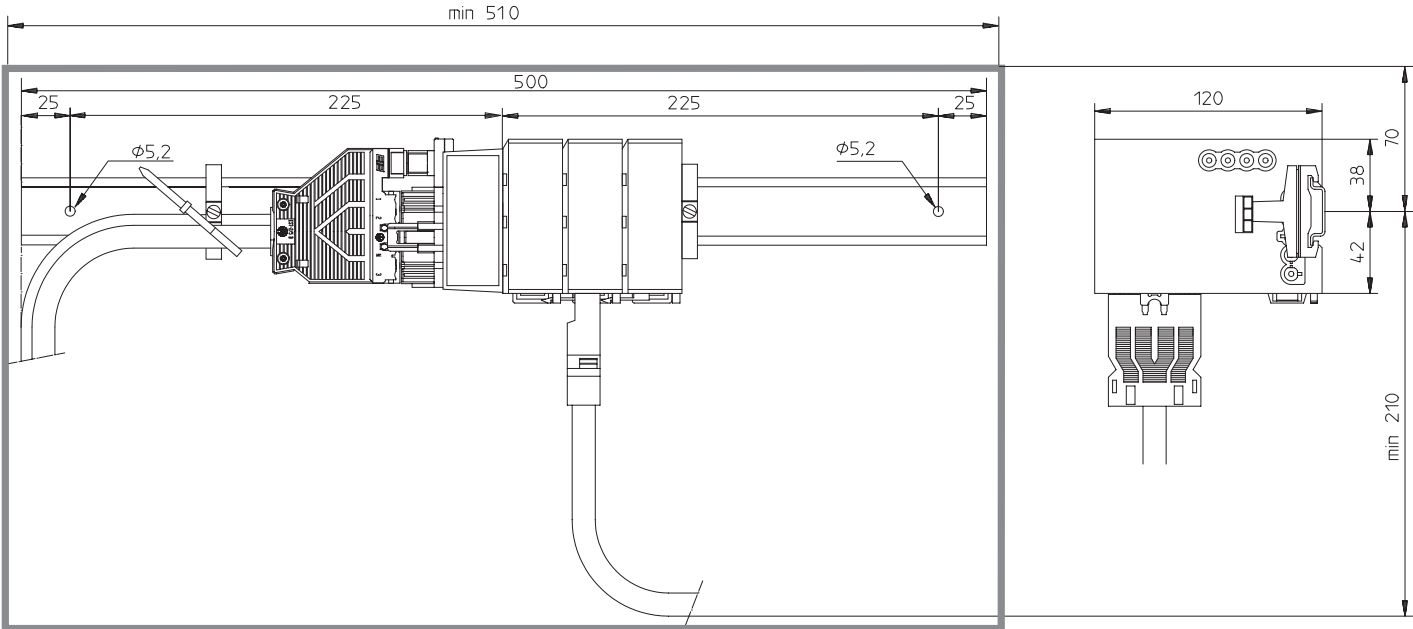
- | | |
|---|--|
| <ul style="list-style-type: none"> 2. Behaviour on bus voltage failure/recovery 3. ON/OFF delay and time-delay switch (staircase lighting function) 13. Setting the travel time
Setting the time for louvre adjustment and pause on reverse
Safety position
Inversion of direction of rotation 14. Fanning out after a "Down" command 16. Setting the offset voltage of electronic ballast devices 17. Dimming time can be set 18. Enable switching on/off via dimming 19. Behaviour on receipt of a value telegram | <ul style="list-style-type: none"> 20. Initial brightness value to be triggered 21. Status response of the switch or dimming state 22. Use as a shutter or motor actuator (no disconnection of relays after a certain period) 23. Scene control 24. Shutter position can be selected 25. Automatic sending of status values possible 26. Selection between normally closed and normally open contact 27. Logic operations possible |
|---|--|

Accessories *gesis*® EIB M and *gesis*® EIB M2

Mounting set DIN rail with integrated fixing clip, two fixing terminals and cable connector Length: 500 mm	99.002.9999.9 5	 Mounting position for the basic module
ETS 2 Product database 	00.000.0066.1 1 00.000.0068.0 1 www.gesis.com	You can receive the Wieland product database on diskette or as a download from the gesis CD-ROM which is supplied with the manual planning manual or by downloading it from the internet.
	Part No. Box Qty	

Mounting dimensions *gesis*® EIB M and *gesis*® EIB M2

Dimensions in mm



Functionality of **gesis**[®] EIB M

	Type	Part number	Functions
Modular device range gesis EIB M	gesis EIB M-BAS	83.020.1000.0	
	Primary functions		1
	Outputs		2; 3; 4
	gesis EIB M-2x2/0	83.020.1001.0	
	Fkt. "Evaluation of pulse edge" *		4; 5; 6
	Fkt. "Evaluation of push button action" *		4; 5; 7; 15
	Fkt. "Shutter sensor" *		4; 5; 7
	Fkt. "Dimming sensor" *		4; 5; 7; 8; 9
	gesis EIB M-2x2/0 (24 V)	83.020.1002.0	
	Fkt. "Evaluation of pulse edge" *		4; 6; 10
	Fkt. "Evaluation of push button action" *		4; 7; 10; 15
	Fkt. "Shutter sensor" *		4; 7; 10
	Fkt. "Dimming sensor" *		4; 7; 8; 9; 10
	gesis EIB M-0/2	83.020.1003.0	3; 4; 11; 12
	gesis EIB M-0/1Wx2	83.020.1004.0	4; 11; 13
	gesis EIB M-0/2 B **	83.020.1005.0	3; 4; 11; 12

* The function (Fct.) is set using a parameter

** Reduced switching capacity compare to the switch outputs

Functions **gesis**[®] EIB M

1. Assignment of the basic function (shutter, load switch, switch/dimming actuator, 24 V DC or 230 V input) of the modules to the module addresses. The monitoring time for alarm evaluation and the limit for the telegram rate are set as general parameters and apply to all the modules.
2. Behaviour on bus voltage failure/recovery
3. ON/OFF delay and time-delay switch (staircase lighting function)
4. Disable evaluation in the module. The object is available once for the whole module block but can be evaluated separately in the extension modules
5. Debouncing (on/off)
6. Sending of initial value on voltage recovery (bus and mains voltage)
Evaluation of rising or falling pulse edge is sent cyclically in combination with the switching commands on/off/toggle
7. Evaluation of short/long push button action
8. Inversion of input assignment
9. Type of dimming function (with stop telegram or cyclical sending)
Cyclic interval for telegrams and dimming step width
10. Debouncing with selected debounce time
11. Behaviour on bus voltage failure (mains available)
12. Behaviour on voltage recovery (mains and bus voltage)
13. Setting the travel time
Setting the time for louvre adjustment and pause on reverse
Safety position
Inversion of direction of rotation
15. Reaction (on, off or toggle) to short/long push button action

Functionality of *gesis*[®] EIB M2

Modular device range <i>gesis</i> EIB M2	Type	Part number	Functions
	gesis EIB M2-BAS	83.020.1020.0	
	Primary functions		1
	gesis EIB M2-4/0	83.020.1021.0	
	Fkt. "Evaluation of pulse edge" *		4; 5; 6
	Fkt. "Evaluation of push button action" *		4; 5; 7; 15
	Fkt. "Shutter sensor" *		4; 5; 7
	Fkt. "Dimming sensor" *		4; 5; 7; 8; 9
	gesis EIB M2-4/0 (24)	83.020.1022.0	
	Fkt. "Evaluation of pulse edge" *		4; 6; 10
	Fkt. "Evaluation of push button action" *		4; 7; 10; 15
	Fkt. "Shutter sensor" *		4; 7; 10
	Fkt. "Dimming sensor" *		4; 7; 8; 9; 10
	gesis EIB M2-0/2	83.020.1023.0	3; 4; 11; 12; 21
	gesis EIB M2-0/1Wx2	83.020.1024.0	4; 11; 13; 14
	gesis EIB M2-0/2 B**	83.020.1025.0	3; 4; 11; 12; 21
	gesis EIB M2-0/1SD**	83.020.1026.0	2; 4; 16; 17; 18; 19; 21; 20

- * The function (Fkt.) is set using a parameter
 ** Reduced switching capacity compare to the switch outputs0/2

Functions of *gesis*[®] EIB M2

1. Assignment of the basic function (shutter, load switch, switch/dimming actuator, 24 V DC or 230 V input) of the modules to the module addresses. The monitoring time for alarm evaluation and the limit for the telegram rate are set as general parameters and apply to all the modules.
2. Behaviour on bus voltage failure/recovery
3. ON/OFF delay and time-delay switch (staircase lighting function)
4. Disable evaluation in the module. The object is available once for the whole module block but can be evaluated separately in the extension modules
5. Debouncing (on/off)
6. Sending of initial value on voltage recovery (bus and mains voltage)
Evaluation of rising or falling pulse edge is sent cyclically in combination with the switching commands on/off/toggle
7. Evaluation of short/long push button action
8. Inversion of input assignment
9. Type of dimming function (with stop telegram or cyclical sending)
Cyclic interval for telegrams and dimming step width
10. Debouncing with selected debounce time
11. Behaviour on bus voltage failure (mains available)
12. Behaviour on voltage recovery (mains and bus voltage)
13. Setting the travel time
Setting the time for louvre adjustment and pause on reverse
Safety position
Inversion of direction of rotation
14. Fanning out after a "Down" command
15. Reaction (on, off or toggle) to short/long push button action
16. Setting the offset voltage for electronic ballast devices
17. Dimming time can be set
18. Enable switching on/off via dimming
19. Behaviour on receipt of a value telegram
20. Initial brightness value to be triggered
21. Status response of the switch or dimming state

Module addresses of **gesis**[®] EIB M and **gesis**[®] EIB M2

The basic module has priority over all the extension modules and manages the communication to the EIB as well as the application of all the modules. All the modules are assigned parameters and supplied via the basic module. So that the individual modules can be correctly addressed, they are provided with a module address. These module addresses can be set at the modules using a rotary switch and must match the addresses that are parameterised in the application.

Module blocks of **gesis**[®] EIB M and **gesis**[®] EIB M2

Maximum number of modules on a module block:

Once the system configuration has been defined, the basic module is fitted together with the required extension modules to form a module block. It should be ensured that the number of manageable module addresses in the basic module is not exceeded.

The following table indicate the number of module addresses that each type of basic module can manage and the number of module addresses required by an extension module.

Assignment of module addresses to the basic/extension modules

Module range	gesis EIB M						gesis EIB M2						
Module type	gesis EIB M-BAS 83.020.1000.0	gesis EIB M-2x2/0 83.020.1001.0	gesis EIB M-2x2/0 (24) 83.020.1002.0	gesis EIB M-0/2 83.020.1003.0	gesis EIB M-0/1Wx2 83.020.1004.0	gesis EIB M-0/2 B 83.020.1005.0	gesis EIB M2-BAS 83.020.1020.0	gesis EIB M2-4/0 83.020.1021.0	gesis EIB M2-4/0 (24) 83.020.1022.0	gesis EIB M2-0/2 83.020.1023.0	gesis EIB M2-0/1Wx2 83.020.1024.0	gesis EIB M2-0/2 B 83.020.1025.0	gesis EIB M2-0/1SD 83.020.1026.0
Manageable module addresses	5	-	-	-	-	-	6	-	-	-	-	-	-
Module addresses required	1	2	2	1	1	1	-	1	1	1	1	1	1

Application example **gesis**[®] EIB M and **gesis**[®] EIB M2

Example 1:

Two offices in which 4 groups of luminaires (LB1-LB4) and 2x2 shutters (M1-M4; each pair of shutters operating in parallel) need to be controlled.

The push buttons are directly connected to the EIB.

Solution 1.1 with **gesis** EIB M

	gesis EIB M									
Module	Basic module		Shutter module		Output module		Shutter module		Spare	
Module addresses	1		2		3		4		5	
Room assignment	Room 1				Room 2					
Output designation	A	B	A	B	A	B	A	B		
Function	LB1	LB2	M1	M2	LB3	LB4	M3	M4		

One module address is reserved for later extensions to the functions

Solution 1.2 with **gesis** EIB M2

	gesis EIB M2													
Module	Basic module		Output mod.		Shutter mod.		Output mod.		Shutter mod.		Spare		Spare	
Module address			1		2		3		4		5		6	
Room assignment	Room 1 and 2		Room 1				Room 2							
Output designation			A	B	A	B	A	B	A	B				
Function			LB1	LB2	M1	M2	LB3	M4	LB3	LB4				

Two module addresses are reserved for later extensions to the functions

Example 2:

Two offices in which 4 groups of luminaires (LB1-LB4) and 2x2 shutters (M1-M4; each pair of shutters operating in parallel) need to be controlled.

In each room, a conventional two-circuit switch with rockers T1 and T2 for the lighting and a shutter switch with rockers for "UP" and "DOWN" should be integrated via inputs into the EIB.

Solution 2.1 with **gesis** EIB M

	gesis EIB M									
Module	Basis module 1		Shutter module		Input module				Reserve	
Module address	1		2		3		4		5	
Room assignment	Room 1									
Input/output	A	B	A	B	S1A	S1B	S2A	S2B		
Function	LB1	LB2	M1	M2	T1	T2	Up	Down		
Module	Basis module 2		Shutter module		Input module				Reserve	
Module address	1		2		3		4		5	
Room assignment	Room 2									
Input/output	A	B	A	B	S1A	S1B	S2A	S2B		
Function	LB3	LB4	M3	M4	T1	T2	Up	Down		

As the maximum number of module addresses that are assigned to a basic module is not sufficient, two basic modules must be used. It should also be noted that two physical addresses should be provided in the EIB system for this solution. In addition, the costs for the connections on the mains/EIB input of the basic module are doubled in comparison to solution to 2.2 using EIB M2 modules.

Solution 2.2 with **gesis** EIB M2

	gesis EIB M2													
Module	Basic mod.		Output mod.		Shutter mod.		Input mod.		Output mod.		Shutter mod.		Input mod.	
Module address			1		2		3		4		5		6	
Room assignment	Room 1 and 2		Room 1						Room 2					
Output designation			A	B	A	B	A,B	C,D	A	B	A	B	A,B	C,D
Function			LB1	LB2	M1	M2	LB	M	LB3	LB4	M3	M4	LB	M

Example 3:

Two offices in which 4 dimmable groups of luminaires (LB1-LB4) and 2x2 shutters (M1-M4; each pair of shutters operating in parallel) need to be controlled.

The push buttons are directly connected to the EIB.

Solution 3.1 with **gesis** EIB M

There is no possibility of a solution using **gesis** EIB M since the basic module gesis EIB M-BAS is not able to manage switch/dimming actuators.

Solution 3.2 with **gesis** EIB M2

	gesis EIB M2									
Module	Basic mod.		swt/dimm		swt/dimm		Shutter mod.		swt/dimm	
Module address			1		2		3		4	
Room assignment	Room 1 and 2		Room 1					Room 2		
Output designation			load/control		load/control		A	B	load/control	
Function			B1		B2		M1	M2	B3	

In addition, where the shutter outputs **gesis** EIB M2-0/1Wx2 are used, the louvers can be fanned out after a "Down" command e.g. from a wind sensor.

The following are some general case studies showing when **gesis** EIB M or **gesis** EIB M2 can be used:

- A simple function is required for shutter control.
- A simple function is required for a combined shutter/lighting control system without a status response.
- A status response is required for a visualisation system in a building.
- Several offices are operated using one module block. The conventional switches are integrated into the EIB. A status response should not occur.
- You wish to control a lighting system that is fitted with dynamic devices with electronic ballast.

gesis EIB M or M2

gesis EIB M or M2

gesis EIB M2

gesis EIB M2 or M

gesis EIB M2

Compatibility of basic modules and extension modules

Compatibility between the extension modules and the basic modules

If you need to mix old and new modules in an existing installation, the following combinations are possible.

	Part number	Basic module		Page
		gesis EIB M-BAS 83.020.1000.0 Page 132f	gesis EIB M2-BAS 83.020.1020.0 Page 142f	
1st generation gesis EIB M-2x2/0 4 fold input 230 V	83.020.1001.0	X	X	134
1st generation gesis EIB M-2x2/0 B (24) 4 fold input 24 V DC	83.020.1002.0	X	X	135
1st generation gesis EIB M-0/2 2 fold load switch	83.020.1003.0	X	X	136
1st generation gesis EIB M-0/1Wx2 1 x 2 fold shutter output ¹⁾	83.020.1004.0	X	X	137
1st generation gesis EIB M-0/2 B 2 fold switch output ²⁾	83.020.1005.0	X	X	138
2nd generation gesis EIB M2-4/0 4 fold input 230 V	83.020.1021.0	–	X	144
2nd generation gesis EIB M2-4/0 (24) 4 fold input 24 V DC	83.020.1022.0	–	X	145
2nd generation gesis EIB M2-0/2 2 fold load switch	83.020.1023.0	O ³⁾	X	146
2nd generation gesis EIB M2-0/1Wx2 1 x 2 fold shutter output ¹⁾	83.020.1024.0	O ⁴⁾	X	147
2nd generation gesis EIB M2-0/2 B 2 fold switch output ²⁾	83.020.1025.0	O ³⁾	X	148
2nd generation gesis EIB M2-0/1SD Switch/Dimming output 1-10 V	83.020.1026.0	–	X	149

Possible assignments of the extension modules listed in the left-hand column to the basic modules.

X Full functional scope

O Limited functional scope

– No connection possible

¹⁾ With two isolated outputs for the connection of two 230 V drives operating in parallel

²⁾ Switch output has a reduced switching capacity compared to the ...0/2

³⁾ Without status response

⁴⁾ Without the function "Fanning out after a Down command"

Can I wire a functional building completely with *gesis*?

Yes. All the functions of the electrical installation can be implemented from the sub-distribution boards onwards e.g. device connection, distribution box, switch connection, connection of socket-outlets, three-phase a.c. wiring, wiring of installation bus.

Are there distribution units available with a *gesis* connection?

Yes. We stock both the sub-distribution boards *gesis* RAN which are manufactured to your specifications and the Wieland distribution boards WIV which have been designed specifically for stand building.

What are the prerequisites for installing *gesis*?

gesis can be installed wherever there is sufficient space for connectors and cables e.g. in suspended ceilings, dado trunking, raised floors or wall racks - in short in any cavity.

I would like to install a second circuit e.g. to supply the computer. Is this possible with *gesis* connectors?

Yes. A continuous and clear separation of the supply systems can be achieved using the mechanically coded *gesis* connectors.

Can a bus installation be made connectable with *gesis*?

Yes, by using our *gesis* EIB components!

Can *gesis* also be used for heavy current up to 20 A?

Yes, the *gesis* connectors are available in a modified form on request for countries with 20 A applications such as Australia and Japan.

What are the coding switches on the *gesis* EIB M and M2 modules used for?

The module address is set using the coding switches. The module address can also be found in the application program for *gesis* EIB M and M2 for the ETS2 software. You select the module in use and thus define the module addresses. These module addresses must match the addresses that have been set at the coding switch. The module type must also be identical.

Do the *gesis* EIB M and *gesis* EIB M2 devices fit in the sub-distribution board?

The device has been designed for installation on site. A TS 35 mounting rail is used for installation. All the connections are carried out as plug-in connections and the cables are equipped with a strain relief. The overall height of 120 mm does not permit the devices to be installed in the sub-distribution board!

How many extension modules can I operate on a basic module?

The following applies for the *gesis* EIB M range:

5 module addresses can be managed. One is allocated to the outputs of the basic module, one each for the output or shutter module and two for the input module.

The following applies for the *gesis* EIB M2 range:

6 module addresses can be managed. As all the *gesis* EIB M2 extension modules only require one module address, these are also six M2 extension modules.

Do I require additional software programs to set the parameters?

All the functions and possible combinations can be parameterised within an application program using the EIB Tool Software ETS2.

Does the connection of permanently wired conductors (NYM) using connectors comply with VDE regulations (initial connection with NYM)?

This application is not excluded in any of the relevant VDE regulations. Several points must however be taken into account:

- The connecting points of cables that are not permanently wired must be relieved of tension and transverse force (strain relief and locking device).
- The supply cable (NYM) must be protected against excessive bending stress by fixing the cable or plug appropriately during the installation.
- It must be ensured that the plugs are only used in installations with a maximum load of 16 A.

It has never been in doubt that a Wieland Electric connector meets higher standards as regards safety requirements than the conventional connection with a standard European terminal (lamp-wire connector). The installation of **gesis** in all previous buildings has been carried out without any problems from the governing bodies (TÜV and LGA).

What must be taken into account when the cables are bundled?

When the cables are bundled, the permitted current carrying capacity must be reduced (compared to DIN VDE 0298 section 4). This can be the case for example in cable trunking, cable trays or racks as well as in walls with heat insulation. An increase in the cable cross-section (e.g. from 1.5 mm² to 2.5 mm²) raises the permitted current carrying capacity.

Which technical conditions apply for three-phase and a.c. distribution boards?

Three-phase and a.c. distribution boards may be fused with a maximum of 16 A per external conductor. A three-phase protective device should be used so that all 3 fuses can be protected against short circuits if one phase fails. Alternatively, each phase can be individually fused and a separate master switch should be installed for all three phases so that the complete circuit can be disconnected to carry out repairs.

Which VDE approval refers to the use of connectors in installation technology?

VDE 0628

This norm with VDE approval applies to two pole and multipole connectors with an earthing contact, a nominal voltage of AC 250 V and AC 400/230 V as well as a nominal current of 16 A. These devices should be connected in installation systems e.g. in prefabricated houses, furniture, cavities such as false floors, suspended ceilings etc. A prerequisite is that the ambient temperature should normally not exceed 25 °C but can occasionally reach 35 °C.

Which VDE approval refers to the use of flexible conductors?

VDE 0100 section 520 (chapter 5.3 "Application of flexible cables")

The following must be connected with flexible cables:

- portable equipment
- stationary equipment whose location must be changed temporarily

These cables must be connected via male and female connectors (e.g. GST 18) or terminals in fixed housing.

VDE 0298 section 3 "Use of cables and insulated cables"

The use of flexible conductors in commercial buildings is permitted, in a similar way to workshops.

Applications in false floors, false ceilings, dado trunking etc. within a building can be compared with the external conditions of a workshop.

VDE statement: The use of flexible conductors is permitted in all types of cavities.

What should be noted when connecting permanently wired conductors (NYM) using connectors (initial connection with NYM)?

Statement from TÜV, South West

"The intended application has not been excluded in any of the relevant VDE regulations which incorporate the setup of power installations or the requirements for cable, plug-in connections, male and female connectors or socket-outlets. Several points must however be taken into account:

- The connecting points of cables that are not permanently wired must be relieved of tension and transverse force (strain relief and locking device).
- The supply cable (NYM) must be protected against excessive bending stress by fixing the cable or male connector appropriately during the installation.
- It must be ensured that the male connector are only used in installations with a maximum load of 16 A."

VDE 0628

Area of application: Connectors for installation technology

"Connectors with detachable connections are tested with the following cables. H05VV-F, NYM (cross-section 1.5 mm² and 2.5 mm²)"

It can be concluded that cable types that are used for this test are also suitable for the practical application.

Latest technology

Connection of a luminaire with flexible conductors to an NYM cable which is suspended from the ceiling. The connection is normally established with a European standard terminal (lamp-wire connector). It has never been in doubt that a Wieland Electric connector meets higher standards as regards safety requirements (strain relief, locking device, reliability of concealment,...).

Previously all buildings have been installed without any problems from the TÜV, LGA etc.

Are there specific technical conditions for the installation?

Three-phase and a.c. distribution boards

- Max. 16 A fuse per external conductor
- A three-phase protective device should be used so that all 3 fuses can be disconnected if one phase fails or
- Each phase can be individually fused and a separate master switch should be installed for all three phases so that the complete circuit can be disconnected to carry out repairs.

Bundling of cables

When the cables are bundled, the permitted current carrying capacity must be reduced (compared to DIN VDE 0298 section 4).

Example:

- cable trunking
- cable trays, racks
- walls with heat insulation

An increase in the cable cross-section (e.g. from 1.5 mm² to 2.5 mm²) raises the permitted current carrying capacity.

Part No.	Type designation	Page	Part No.	Type designation	Page	Part No.	Type designation	Page
00.000.0066.1		122	92.051.0353.1	GST1815B1V	103	92.232.1024.1		152
00.000.0068.0	GEIS DEUTSCH	222	92.051.0553.1	GST1815B1V F5 SW	89	92.232.1024.2		152
00.702.0303.7	2.5 PVC GRUEN	90	92.051.3253.1	GST1815B1 SW	36	92.232.1060.1		20
00.702.0323.9	2.5+2*1.5 BLAU/LILA	106	92.051.8658.0	GST1815F B2 R V PB02	36	92.232.1060.2		20
00.702.1022.3	U BUS-LEITUNG	55	92.051.9658.1	GST1815F B2 R V SW	36	92.232.1060.3		20
00.702.1022.7		97	92.052.0058.1	GST1815L S1V SW	37	92.232.1060.5		20
00.709.0303.7	2.5 HALOGENFREI GRUEN	90	92.052.3353.1	GST1815S S1 SW	36	92.232.1063.1		20
00.709.0323.9	562.5+2*1.5 halogenfrei	106	92.052.8658.0	GST1815F S2 R V PB02	36	92.232.1063.2		20
00.709.1022.3	EI GRAU BUS-LEITUNG	96	92.052.9658.1	GST1815F S2 R V SW	36	92.232.1063.3		20
05.561.3653.0	GST18/3VS B WS	205	92.053.0058.1	GST1815L B1H SW	37	92.232.1063.5		20
05.561.3653.1	GST18/3VS B SW	205	92.054.0058.1	GST1815L S1H SW	37	92.232.1064.1		20
05.562.2900.0	LEITUNGSENDST.	106	92.207.1000.1	GST1814KFB5 15 10SW	30	92.232.1064.2		20
05.562.3000.0	KABELSCHELLE	89	92.207.1000.3	GST1814KFB5 15 10GR01	30	92.232.1064.3		20
05.562.4400.0	Leitungsendstueck	96	92.207.1003.1	GST1814KF-B 15 10SW	30	92.232.1064.5		20
05.562.4700.0	VER.SCHIEBER	89	92.207.1003.3		30	92.232.2000.1	GST1813K1BS 15 20SW	16
05.584.0153.0	VER.SCHIEBER	204	92.207.1004.1		30	92.232.2000.2	GST1813K1BS 15 20WS	16
05.584.0153.2	VER.SCHIEBER	204	92.207.1004.3		30	92.232.2000.3		16
05.587.3156.0	VER.SCHIEBER	204	92.207.1060.1		31	92.232.2000.5		16
05.587.3156.1	VER.SCHIEBER	25	92.207.1060.3		31	92.232.2003.1	GST1813K1B- 15 20SW	16
05.588.5753.0	VER.SCHIEBER	204	92.207.1063.1		31	92.232.2003.2	GST1813K1B- 15 20WS	16
05.588.5753.1	VER.SCHIEBER	204	92.207.1063.3		31	92.232.2003.3		16
05.590.4556.0	VER.SCHIEBER	204	92.207.1064.1		31	92.232.2003.5		16
05.590.4556.1	VER.SCHIEBER	204	92.207.1064.3		31	92.232.2004.1	GST1813K1- S 15 20SW	16
06.600.2027.0	DIN 46228-E 0.5-8	205	92.207.2000.1	GST1814KFB5 15 20SW	30	92.232.2004.2	GST1813K1- S 15 20WS	16
06.600.2127.0	DIN 46228-E 0.75-8	205	92.207.2000.3	GST1814KFB5 15 20GR01	30	92.232.2004.3		16
06.600.2227.0	DIN 46228-E 1 - 8	205	92.207.2003.1	GST1814KFB- 15 20SW	30	92.232.2004.5		16
06.600.2327.0	DIN 46228-E 1.5- 8	205	92.207.2003.3	GST1814KFB- 15 20GR01	30	92.232.2007.1	GST1813K1BD 15 20SW	18
07.413.5432.1		44	92.207.2004.1	GST1814KF- S 15 20SW	30	92.232.2007.2	GST1813K1BD 15 20WS	18
07.413.5453.1	TRAGPLATTE	42	92.207.2004.3	GST1814KF- S 15 20GR01	30	92.232.2010.1		22
83.020.0212.0	GEIS EIB V-0/2+1W	122	92.207.2060.1		31	92.232.2010.2		22
83.020.0212.2	GEIS EIB V-0/2+1W 1PH	122	92.207.2060.3		31	92.232.2010.3		22
83.020.0213.0	GEIS EIB V-0/2SD	124	92.207.2063.1		31	92.232.2010.5		22
83.020.0213.2	GEIS EIB V-0/2SD 1PH	124	92.207.2064.1		31	92.232.2013.1		22
83.020.0215.0	GEIS EIB V-0/4	126	92.207.2064.3		31	92.232.2013.3		22
83.020.0215.2	GEIS EIB V-0/4 1PH	126	92.207.3000.1	GST1814KFB5 15 30SW	30	92.232.2013.5		22
83.020.0216.0	GEIS EIB V-0/2W	128	92.207.3000.3	GST1814KFB5 15 30GR01	30	92.232.2014.1		22
83.020.0216.2	GEIS EIB V-0/2W 1PH	128	92.207.3003.1	GST1814KFB- 15 30SW	30	92.232.2014.2		22
83.020.1000.0	GEIS EIB M-BAS	132	92.207.3003.3		30	92.232.2014.3		22
83.020.1001.0	GEIS EIB M-2X/0	134	92.207.3004.1	GST1814KF- S 15 30SW	30	92.232.2014.5		22
83.020.1002.0	GEIS EIB M-2X/0 (24)	135	92.207.3004.3	GST1814KF- S 15 30GR01	30	92.232.2020.1		152
83.020.1003.0	GEIS EIB M-0/2	136	92.207.3060.1		31	92.232.2020.2		152
83.020.1004.0	GEIS EIB M-0/1WX2	137	92.207.3060.3		31	92.232.2023.1		152
83.020.1005.0	GEIS EIB M-0/2 B	138	92.207.3063.1		31	92.232.2023.2		152
83.020.1020.0	GEIS EIB M2-BAS	142	92.207.3063.3		31	92.232.2024.1		152
83.020.1021.0	GEIS EIB M2-4/0	144	92.207.3064.1		31	92.232.2024.2		152
83.020.1022.0	GEIS EIB M2-4/0 (24)	145	92.207.3064.3		31	92.232.2060.1		20
83.020.1023.0	GEIS EIB M2-0/2	146	92.207.4000.1	GST1814KFB5 15 40SW	30	92.232.2060.2		20
83.020.1024.0	GEIS EIB M2-0/1WX2	147	92.207.4000.3	GST1814KFB5 15 40GR01	30	92.232.2060.3		20
83.020.1025.0	GEIS EIB M2-0/2 B	148	92.207.4003.1	GST1814KFB- 15 40SW	30	92.232.2060.5		20
83.020.1026.0	GEIS EIB M2-0/1SD	149	92.207.4003.3	GST1814KFB- 15 40GR01	30	92.232.2063.1		20
92.030.1053.0	GST1813V 2P1T V WS	25	92.207.4004.1	GST1814KF- S 15 40SW	30	92.232.2063.2		20
92.030.1053.1	GST1813V 2P1T V SW	25	92.207.4004.3	GST1814KF- S 15 40GR01	30	92.232.2063.3		20
92.030.2053.0	GST1813V 2P1K V WS	25	92.207.4060.1		31	92.232.2063.5		20
92.030.4953.0	GST1813V 3P1 F V WS	24	92.207.4060.3		31	92.232.2064.1		20
92.030.4953.1	GST1813V 3P1 F V SW	24	92.207.4063.1		31	92.232.2064.2		20
92.030.4953.2	GST1813V 3P1 V WS	24	92.207.4063.3		31	92.232.2064.3		20
92.030.4953.3	GST1813V 3P1 V SW	24	92.207.4064.1		31	92.232.2064.5		20
92.030.5253.0	GST1813V 5P1 V WS	24	92.207.4064.3		31	92.232.3000.1	GST1813K1BS 15 30SW	16
92.030.5253.1	GST1813V 5P1 V SW	24	92.207.5000.1	GST1814KFB5 15 50SW	30	92.232.3000.2	GST1813K1BS 15 30WS	16
92.030.5353.0	GST1813V 5P1 F V WS	24	92.207.5000.3	GST1814KFB5 15 50GR01	30	92.232.3000.3		16
92.030.5353.1	GST1813V 5P1 F V SW	24	92.207.5003.1	GST1814KFB- 15 50SW	30	92.232.3000.5		16
92.030.5958.0	GST1813Z 1P1 WS	24	92.207.5003.3		30	92.232.3003.1	GST1813K1B- 15 30SW	16
92.030.5958.1	GST1813Z 1P1 SW	24	92.207.5004.1	GST1814KF- S 15 50SW	30	92.232.3003.2	GST1813K1B- 15 30WS	16
92.031.0058.0	GST1813L B1V WS	15	92.207.5004.3	GST1814KF- S 15 50GR01	30	92.232.3003.3		16
92.031.0058.1	GST1813L B1V SW	15	92.207.5060.1		31	92.232.3003.5		16
92.031.0158.0	GST1813L B1V GR01	15	92.207.5060.3		31	92.232.3004.1	GST1813K1- S 15 30SW	16
92.031.0458.1		48	92.207.5063.1		31	92.232.3004.2	GST1813K1- S 15 30WS	16
92.031.3258.0	GST1813S B1 WS	12	92.207.5063.3		31	92.232.3004.5		16
92.031.3258.1	GST1813S B1 SW	12	92.207.5064.1		31	92.232.3007.1	GST1813K1BD 15 30SW	18
92.031.3458.0	GST1813S B1 GR01	12	92.207.5064.3		31	92.232.3010.1		22
92.031.3658.0	GST1813S B1 RT03	12	92.207.6000.1	GST1814KFB5 15 60SW	30	92.232.3010.2		22
92.031.3658.0	GST1813S B1 BR05	12	92.207.6000.3	GST1814KFB5 15 60GR01	30	92.232.3010.3		22
92.031.4153.1	GST1813B1V	101	92.207.6003.1		30	92.232.3010.5		22
92.031.4253.1	GST1813B1V	101	92.207.6003.3		30	92.232.3013.1		22
92.031.4353.1	GST1813B1V	101	92.207.6004.1	GST1814KF- S 15 60SW	30	92.232.3013.2		22
92.031.4453.0	GST1813S B2 WS	12	92.207.6004.3	GST1814KF- S 15 60GR01	30	92.232.3013.3		22
92.031.4453.1	GST1813S B2 SW	12	92.207.6060.1		31	92.232.3013.5		22
92.031.5153.1	GST1813B1 B1V F5 1 SW	88	92.207.6060.3		31	92.232.3014.1		22
92.031.5253.1	GST1813B1 B1V F5 2 SW	88	92.207.6063.1		31	92.232.3014.2		22
92.031.5353.1	GST1813B1 B1V F5 3 SW	88	92.207.6063.3		31	92.232.3014.3		22
92.031.7658.0	GST1813F B2 REV WS	14	92.207.6064.1		31	92.232.3014.5		22
92.031.7658.1	GST1813F B2 REV SW	14	92.207.6064.3		31	92.232.3020.1		152
92.031.8458.0		14	92.207.7000.1	GST1814KFB5 15 70SW	30	92.232.3020.2		152
92.031.8558.0		14	92.207.7000.3	GST1814KFB5 15 70GR01	30	92.232.3020.3		152
92.031.8758.0	GST1813S B1 R V WS	14	92.207.7003.1	GST1814KFB- 15 70SW	30	92.232.3023.1		152
92.031.8758.1	GST1813S B1 R V SW	14	92.207.7003.3		30	92.232.3023.2		152
92.031.9658.0	GST1813F B2 R V WS	14	92.207.7004.1	GST1814KF- S 15 70SW	30	92.232.3024.1		152
92.031.9658.1	GST1813F B2 R V SW	14	92.207.7004.3	GST1814KF- S 15 70GR01	30	92.232.3024.2		152
92.031.9758.0	GST1813F B2 R V GR01	14	92.207.7060.1		31	92.232.3060.1		20
92.032.0058.0	GST1813L S1V WS	15	92.207.7060.3		31	92.232.3060.2		20
92.032.0058.1	GST1813L S1V SW	15	92.207.7063.1		31	92.232.3060.3		20
92.032.0158.0	GST1813L S1V GR01	15	92.207.7063.3		31	92.232.3060.5		20
92.032.3358.0	GST1813S S1 WS	12	92.207.7064.1		31	92.232.3063.1		20
92.032.3358.1	GST1813S S1 SW	12	92.207.7064.3		31	92.232.3063.2		20
92.032.3458.0	GST1813S S1 GR01	12	92.207.8000.1	GST1814KFB5 15 80SW	30	92.232.3063.3		20
92.032.3658.0	GST1813S S1 RT03	12	92.207.8000.3	GST1814KFB5 15 80GR01	30	92.232.3063.5		20
92.032.3858.0	GST1813S S1 BR05	12	92.207.8003.1	GST1814KFB- 15 80SW	30	92.232.3064.1		20
92.032.7658.0	GST1813F S2 REV WS	14	92.207.8003.3		30	92.232.3064.2		20
92.032.7658.1	GST1813F S2 REV SW	14	92.207.8004.1	GST1814KF- S 15 80SW	30	92.232.3064.3		20
92.032.8458.0		14	92.207.8004.3	GST1814KF- S 15 80GR01	30	92.232.3064.5		20
92.032.8558.0		14	92.207.8060.1		31	92.232.4000.1	GST1813K1BS 15 40SW	16
92.032.8758.0	GST1813S S1 R V WS	14	92.207.8060.3		31	92.232.4000.2	GST1813K1BS 15 40WS	16
92.032.8758.1	GST1813S S1 R V SW	14	92.207.8063.1		31	92.232.4000.3		16
92.032.9658.0	GST1813F S2 R V WS	14	92.207.8063.3		31	92.232.4000.5		16
92.032.9658.1	GST1813F S2 R V SW	14	92.207.8064.1		31	92.232.4003.1	GST1813K1B- 15 40SW	16
92.032.9758.0	GST1813F S2 R V GR01	14	92.207.8064.3		31	92.232.4003.2	GST1813K1B- 15 40WS	16
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92.232.4064.1		20	92.232.8003.5		16	92.238.3063.2		21
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92.232.5000.3		16	92.232.8010.2		22	92.238.3064.5		21
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92.232.5060.5		20	92.238.1000.1	GST18I3K1BS 25 10SW	17	92.238.4063.3		21
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92.232.7000.3		16	92.238.2013.3		23	92.238.6004.5		17
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92.232.7003.2	GST18I3K1B- 15 70WS	16	92.238.2014.2		23	92.238.6010.3		23
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92.232.7004.3		16	92.238.2060.3		21	92.238.6013.5		23
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92.232.7010.1		22	92.238.2063.1		21	92.238.6014.2		23
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92.232.7013.5		22	92.238.2064.5		21	92.238.6063.1		21
92.232.7014.1		22	92.238.3000.1	GST18I3K1BS 25 30SW	17	92.238.6063.2		21
92.232.7014.2		22	92.238.3000.2	GST18I3K1BS 25 30WS	17	92.238.6063.3		21
92.232.7014.3		22	92.238.3000.3		17	92.238.6063.5		21
92.232.7014.5		22	92.238.3000.5		17	92.238.6064.1		21
92.232.7020.1		152	92.238.3003.1	GST18I3K1B- 25 30SW	17	92.238.6064.2		21
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92.238.7060.5		21	92.257.8063.1		40	93.941.4158.0	ST17/2 B10 ZEVIWS	114
92.238.7063.1		21	92.257.8063.9		40	93.941.4158.1	ST17/2 B10 ZEVIWS	114
92.238.7063.2		21	92.257.8064.1		40	93.942.0558.0	ST17/2 S ZEVIWS	114
92.238.7063.3		21	92.257.8064.9		40	93.942.0558.1	ST17/2 S ZEVIWS	114
92.238.7063.5		21	92.258.1000.1	GST1815K1BS 25 10SW	39	93.942.4158.0	ST17/2 SQ ZEVIWS	114
92.238.7064.1		21	92.258.1003.1	GST1815K1B- 25 10SW	39	93.942.4158.1	ST17/2 SQ ZEVIWS	114
92.238.7064.2		21	92.258.1004.1	GST1815K1-S 25 10SW	39	94.122.0500.2	ST17/2B AS 1.5 05 SW	116
92.238.7064.3		21	92.258.1060.1		41	94.122.0500.3	ST17/2B AS 1.5 05 WS	116
92.238.7064.5		21	92.258.1063.1		41	94.122.0503.1	ST17/2B A 1.5 05 SW	116
92.238.8000.1	GST1813K1BS 25 80SW	17	92.258.1064.1		41	94.122.0503.2	ST17/2B A 1.5 05 WS	116
92.238.8000.2	GST1813K1BS 25 80WS	17	92.258.2000.1	GST1815K1BS 25 20SW	39	94.122.0504.1	ST17/2 AS 1.5 05 SW	116
92.238.8000.3		17	92.258.2003.1	GST1815K1B- 25 20SW	39	94.122.0504.2	ST17/2 AS 1.5 05 WS	116
92.238.8000.5		17	92.258.2004.1	GST1815K1-S 25 20SW	39	94.122.1000.1	ST17/2B AS 1.5 10 SW	116
92.238.8003.1	GST1813K1B- 25 80SW	17	92.258.2060.1		41	94.122.1000.2	ST17/2B AS 1.5 10 WS	116
92.238.8003.2	GST1813K1B- 25 80WS	17	92.258.2063.1		41	94.122.1003.1	ST17/2B A 1.5 10 SW	116
92.238.8003.3		17	92.258.2064.1		41	94.122.1003.2	ST17/2B A 1.5 10 WS	116
92.238.8003.5		17	92.258.3000.1	GST1815K1BS 25 30SW	39	94.122.1004.1	ST17/2 AS 1.5 10 SW	116
92.238.8004.1	GST1813K1-S 25 80SW	17	92.258.3003.1	GST1815K1B- 25 30SW	39	94.122.1004.2	ST17/2 AS 1.5 10 WS	116
92.238.8004.2	GST1813K1-S 25 80WS	17	92.258.3004.1	GST1815K1-S 25 30SW	39	94.122.1500.1	ST17/2B AS 1.5 15 SW	116
92.238.8004.3		17	92.258.3060.1		41	94.122.1500.2	ST17/2B AS 1.5 15 WS	116
92.238.8004.5		17	92.258.3063.1		41	94.122.1503.1	ST17/2 AS 1.5 15 SW	116
92.238.8010.1		23	92.258.3064.1		41	94.122.1503.2	ST17/2 AS 1.5 15 WS	116
92.238.8010.2		23	92.258.4000.1	GST1815K1BS 25 40SW	39	94.122.1504.1	ST17/2 AS 1.5 15 SW	116
92.238.8010.3		23	92.258.4003.1	GST1815K1B- 25 40SW	39	94.122.1504.2	ST17/2 AS 1.5 15 WS	116
92.238.8010.5		23	92.258.4004.1	GST1815K1-S 25 40SW	39	94.122.2000.1	ST17/2B AS 1.5 20 SW	116
92.238.8013.1		23	92.258.4060.1		41	94.122.2000.2	ST17/2B AS 1.5 20 WS	116
92.238.8013.2		23	92.258.4063.1		41	94.122.2003.1	ST17/2B A 1.5 20 SW	116
92.238.8013.3		23	92.258.4064.1		41	94.122.2003.2	ST17/2B A 1.5 20 WS	116
92.238.8013.5		23	92.258.5000.1	GST1815K1BS 25 50SW	39	94.122.2004.1	ST17/2 AS 1.5 20 SW	116
92.238.8014.1		23	92.258.5003.1	GST1815K1B- 25 50SW	39	94.122.2004.2	ST17/2 AS 1.5 20 WS	116
92.238.8014.2		23	92.258.5004.1	GST1815K1-S 25 50SW	39	94.122.2500.1	ST17/2B AS 1.5 25 SW	116
92.238.8014.3		23	92.258.5060.1		41	94.122.2500.2	ST17/2B AS 1.5 25 WS	116
92.238.8014.5		23	92.258.5063.1		41	94.122.2503.1	ST17/2B A 1.5 25 SW	116
92.238.8060.1		21	92.258.5064.1		41	94.122.2503.2	ST17/2B A 1.5 25 WS	116
92.238.8060.2		21	92.258.6000.1	GST1815K1BS 25 60SW	39	94.122.2504.1	ST17/2 AS 1.5 25 SW	116
92.238.8060.3		21	92.258.6003.1	GST1815K1B- 25 60SW	39	94.122.2504.2	ST17/2 AS 1.5 25 WS	116
92.238.8060.5		21	92.258.6004.1	GST1815K1-S 25 60SW	39	94.122.3000.1	ST17/2B AS 1.5 30 SW	116
92.238.8063.1		21	92.258.6060.1		41	94.122.3000.2	ST17/2B AS 1.5 30 WS	116
92.238.8063.2		21	92.258.6063.1		41	94.122.3003.1	ST17/2B A 1.5 30 SW	116
92.238.8063.3		21	92.258.6064.1		41	94.122.3003.2	ST17/2B A 1.5 30 WS	116
92.238.8063.5		21	92.258.7000.1	GST1815K1BS 25 70SW	39	94.122.3004.1	ST17/2 AS 1.5 30 SW	116
92.238.8064.1		21	92.258.7003.1	GST1813K1B- 25 70SW	39	94.122.3004.2	ST17/2 AS 1.5 30 WS	116
92.238.8064.2		21	92.258.7004.1	GST1815K1-S 25 70SW	39	94.122.3500.1	ST17/2B AS 1.5 35 SW	116
92.238.8064.3		21	92.258.7060.1		41	94.122.3500.2	ST17/2B AS 1.5 35 WS	116
92.238.8064.5		21	92.258.7063.1		41	94.122.3503.1	ST17/2B A 1.5 35 SW	116
92.257.1000.1	GST1815K1BS 15 10SW	38	92.258.7064.1		41	94.122.3503.2	ST17/2B A 1.5 35 WS	116
92.257.1000.9	GST1815K1BS 15 10PB02	38	92.258.8000.1	GST1815K1BS 25 80SW	39	94.122.3504.1	ST17/2 AS 1.5 35 SW	116
92.257.1003.1	GST1815K1B- 15 10SW	38	92.258.8003.1	GST1815K1B- 25 80SW	39	94.122.3504.2	ST17/2 AS 1.5 35 WS	116
92.257.1003.9	GST1815K1B- 15 10PB02	38	92.258.8004.1	GST1815K1-S 25 80SW	39	94.122.4000.1	ST17/2B AS 1.5 40 SW	116
92.257.1004.1	GST1815K1-S 15 10SW	38	92.258.8060.1		41	94.122.4000.2	ST17/2B AS 1.5 40 WS	116
92.257.1004.9	GST1815K1-S 15 10PB02	38	92.258.8063.1		41	94.122.4003.1	ST17/2B A 1.5 40 SW	116
92.257.1060.1		40	92.258.8064.1		41	94.122.4003.2	ST17/2B A 1.5 40 WS	116
92.257.1060.9		40	92.420.1053.0		107	94.122.4004.1	ST17/2 AS 1.5 40 SW	116
92.257.1063.1		40	92.421.0853.0		107	94.122.4004.2	ST17/2 AS 1.5 40 WS	116
92.257.1063.9		40	92.421.2853.1		107	94.123.0500.1	ST17/2B AS 2.5 05 SW	116
92.257.1064.1		40	92.933.0053.0	GST1813F B2 ZR1 WS	13	94.123.0500.2	ST17/2B AS 2.5 05 WS	116
92.257.1064.9		40	92.933.0053.1	GST1813F B2 ZR1 SW	13	94.123.0503.1	ST17/2B A 2.5 05 SW	116
92.257.2000.1	GST1815K1BS 15 20SW	38	92.933.0153.0	GST1813F B2 ZR1 GR01	13	94.123.0503.2	ST17/2B A 2.5 05 WS	116
92.257.2000.9	GST1815K1BS 15 20PB02	38	92.934.0053.0	GST1813F S2 ZR1 WS	13	94.123.0504.1	ST17/2 AS 2.5 05 SW	116
92.257.2003.1	GST1815K1B- 15 20SW	38	92.934.0053.1	GST1813F S2 ZR1 SW	13	94.123.0504.2	ST17/2 AS 2.5 05 WS	116
92.257.2003.9	GST1815K1B- 15 20PB02	38	92.934.0153.0	GST1813F S2 ZR1 GR01	13	94.123.1000.1	ST17/2B AS 2.5 10 SW	116
92.257.2004.1	GST1815K1-S 15 20SW	38	92.934.0253.0	GST1813F S2 ZR1 SW	13	94.123.1000.2	ST17/2B AS 2.5 10 WS	116
92.257.2004.9	GST1815K1-S 15 20PB02	38	92.938.0158.1	GST1813S S1NZR1V SW	13	94.123.1003.1	ST17/2B A 2.5 10 SW	116
92.257.2060.1		40	92.939.1053.1	GST1813S B2ZR1V SW	13	94.123.1003.2	ST17/2B A 2.5 10 WS	116
92.257.2060.9		40	92.943.0053.1	GST1814F B2 ZR1 SW	28	94.123.1004.1	ST17/2 AS 2.5 10 SW	116
92.257.2063.1		40	92.943.0153.0	GST1814F B2 ZR1 GR01	28	94.123.1004.2	ST17/2 AS 2.5 10 WS	116
92.257.2063.9		40	92.943.1053.1	GST1814F B2 ZR2 SW	28	94.123.1500.1	ST17/2B AS 2.5 15 SW	116
92.257.2064.1		40	92.944.0053.1	GST1814F S2 ZR1 SW	28	94.123.1500.2	ST17/2B AS 2.5 15 WS	116
92.257.2064.9		40	92.944.0153.0	GST1814F S2 ZR1 GR01	28	94.123.1503.1	ST17/2B A 2.5 15 SW	116
92.257.3000.1	GST1815K1BS 15 30SW	38	92.944.1053.1	GST1814F S2 ZR2 SW	28	94.123.1503.2	ST17/2B A 2.5 15 WS	116
92.257.3000.9	GST1815K1BS 15 30PB02	38	92.953.3053.0	GST1815S B1 ZR1 SW	36	94.123.1504.1	ST17/2 AS 2.5 15 SW	116
92.257.3003.1	GST1815K1B- 15 30SW	38	92.953.3353.0	GST1815S B1 ZR2 BL01	135	94.123.1504.2	ST17/2 AS 2.5 15 WS	116
92.257.3003.9	GST1815K1B- 15 30PB02	38	92.953.3453.0	GST1815S B1 ZR1 S PB02	36	94.123.2000.1	ST17/2B AS 2.5 20 SW	116
92.257.3004.1	GST1815K1-S 15 30SW	38	92.954.3053.1	GST1815S S1 ZR1 SW	135	94.123.2000.2	ST17/2B A 2.5 20 WS	116
92.257.3004.9	GST1815K1-S 15 30PB02	38	92.954.3353.0	GST1815S S1 ZR2 BL01	135	94.123.2003.1	ST17/2B AS 2.5 20 SW	116
92.257.3060.1		40	92.954.3453.0	GST1815S S1 ZR1 S PB02	36	94.123.2003.2	ST17/2B AS 2.5 20 WS	116
92.257.3060.9		40	92.968.0158.1	GST1816S S1NZR1V SWPB	48	94.123.2004.1	ST17/2 AS 2.5 10 SW	116
92.257.3063.1		40	92.969.0158.1	GST1816S B1NZR1V SWPB	48	94.123.2004.2	ST17/2 AS 2.5 20 WS	116
92.257.3063.9		40	93.010.0153.0	ST16/2 VT 5/1 P WS	111	94.123.2500.1	ST17/2B AS 2.5 25 SW	116
92.257.3064.1		40	93.040.0253.0	ST17/2ZK1/1 WS	117	94.123.2500.2	ST17/2B AS 2.5 25 WS	116
92.257.3064.9		40	93.040.0258.0	ST17/2ZK1/1 WS	117	94.123.2503.1	ST17/2B A 2.5 25 SW	116
92.257.4000.1	GST1815K1BS 15 40SW	38	93.040.1053.0	ST17/2 VT 5/1 F WS	115	94.123.2503.2	ST17/2B A 2.5 25 WS	116
92.257.4000.9	GST1815K1BS 15 40PB02	38	93.040.1053.1	ST17/2 VT 5/1 F SW	115	94.123.2504.1	ST17/2 AS 2.5 25 SW	116
92.257.4003.1	GST1815K1B- 15 40SW	38	93.040.1153.0	ST17/2 VT 5/1 WS	115	94.123.2504.2	ST17/2 AS 2.5 25 WS	116
92.257.4003.9	GST1815K1B- 15 40PB02	38	93.040.1153.1	ST17/2 VT 5/1 SW	115	94.123.3000.1	ST17/2B AS 2.5 30 SW	116
92.257.4004.1	GST1815K1-S 15 40SW	38	93.040.1253.0	ST17/2 VT 3/1 F WS	115	94.123.3000.2	ST17/2B AS 2.5 30 WS	116
92.257.4004.9	GST1815K1-S 15 40PB02	38	93.040.1253.1	ST17/2 VT 3/1 F SW	115	94.123.3003.1	ST17/2B A 2.5 30 SW	116
92.257.4060.1		40	93.040.1353.0	ST17/2 VT 3/1 WS	115	94.123.3003.2	ST17/2B A 2.5 30 WS	116
92.257.4060.9		40	93.040.1353.1	ST17/2 VT 3/1 SW	115	94.123.3004.1	ST17/2 AS 2.5 30 SW	116
92.257.4063.1		40	93.040.2050.0	ST17/2 VT 3/1 SWS	115	94.123.3004.2	ST17/2 AS 2.5 30 WS	116
92.257.4063.9		40	93.041.0253.0	ST17/2BR SW	114	94.123.3500.1	ST17/2B AS 2.5 35 SW	116
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94.425.5004.7	BST1412KF-S 50 50GN01	54	94.563.8000.1	EST315FKSBS 3 80SWSW	83	G1.355.0702.1		GB 176
94.425.5004.9	BST1412KF-S 50 50P802	54	94.563.8003.1	EST315FKS-S 3 80SWSW	83	G1.355.1002.1		GB 176
94.425.6000.7	BST1412KFB 50 60GN01	54	94.603.0031.2	ST16/2BS K1SI 25 035WS	110	G1.366.0302.7		GB 178
94.425.6000.9	BST1412KFB 50 60P802	54	94.603.0032.2	ST16/2BS K1SI 25 035WS	111	G1.366.0402.7		GB 178
94.425.6003.7	BST1412KF-S 50 60GN01	54	94.603.0631.2	ST16/2BS K1SBS25 06 WS	110	G1.366.0502.7		GB 178
94.425.6003.9	BST1412KF-S 50 60P802	54	94.603.0632.2	ST16/2BS K1SI 25 06 WS	111	G1.366.0702.7		GB 178
94.425.6004.7	BST1412KF-S 50 60GN01	54	94.603.1231.2	ST16/2BS K1SBS25 12 WS	110	G1.366.1002.7		GB 178
94.425.6004.9	BST1412KFB 50 60P802	54	94.603.1232.2	ST16/2BS K1SI 25 12 WS	111	G1.444.0202.1		GB 170
94.425.7000.7	BST1412KFB 50 70GN01	54	94.603.1831.2	ST16/2BS K1SBS25 18 WS	110	G1.444.0203.1		GB 171
94.425.7000.9	BST1412KFB 50 70P802	54	94.603.1832.2	ST16/2BS K1SI 25 18 WS	111	G1.444.0302.1		GB 170
94.425.7003.7	BST1412KF-S 50 70GN01	54	94.603.2431.2	ST16/2BS K1SBS25 24 WS	110	G1.444.0303.1		GB 171
94.425.7003.9	BST1412KF-S 50 70P802	54	94.603.2432.2	ST16/2BS K1SI 25 24 WS	111	G1.444.0402.1		GB 170
94.425.7004.7	BST1412KF-S 50 70GN01	54	94.623.0031.2	ST16/2BS K1 BS25 035WS	110	G1.444.0403.1		GB 171
94.425.7004.9	BST1412KFB 50 70P802	54	94.623.0032.2	ST16/2BS K1 BS25 06 WS	110	G1.444.0502.1		GB 170
94.425.8000.7	BST1412KFB 50 80GN01	54	94.623.0631.2	ST16/2BS K1 BS25 12 WS	110	G1.444.0503.1		GB 171
94.425.8000.9	BST1412KFB 50 80P802	54	94.623.0632.2	ST16/2BS K1 BS25 18 WS	110	G1.444.0702.1		GB 170
94.425.8003.7	BST1412KF-S 50 80GN01	54	94.623.1231.2	ST16/2BS K1 25 12 WS	110	G1.444.0703.1		GB 171
94.425.8003.9	BST1412KF-S 50 80P802	54	94.623.1232.2	ST16/2BS K1 25 12 WS	110	G1.444.1002.1		GB 170
94.425.8004.7	BST1412KF-S 50 80GN01	54	94.623.1831.2	ST16/2BS K1 BS25 18 WS	110	G1.444.1003.1		GB 171
94.425.8004.9	BST1412KF-S 50 80P802	54	94.623.1832.2	ST16/2BS K1 25 18 WS	110	G1.455.0202.1		GB 176
94.435.1000.1	BST1413KFB 50 10SW	72	94.623.2431.2	ST16/2BS K1 BS25 24 WS	110	G1.455.0402.1		GB 176
94.435.1003.1	BST1413KFB 50 10SW	72	94.623.2432.2	ST16/2BS K1 25 24 WS	110	G1.455.0502.1		GB 176
94.435.1004.1	BST1413KF-S 50 10SW	72	95.101.1300.0	PRESSWERKZEUG	205	G1.455.0702.1		GB 176
94.435.2000.1	BST1413KFB 50 20SW	72	95.350.0200.0	ABMANTELZANGE	90	G1.455.1002.1		GB 176
94.435.2003.1	BST1413KF-S 50 20SW	72	99.002.9999.9	MONTAGESET	224	G1.466.0202.7		GB 178
94.435.2004.1	BST1413KF-S 50 20SW	72	99.010.9910.0		203	G1.466.0302.7		GB 178
94.435.3000.1	BST1413KFB 50 30SW	72	99.400.0028.0	GST1813	18	G1.466.0402.7		GB 178
94.435.3003.1	BST1413KF-S 50 30SW	72	99.400.5802.1	NST STVB.M.KABEL	12	G1.466.0502.7		GB 178
94.435.4000.1	BST1413KFB 50 40SW	72	99.401.0028.0	GST1813S B1NZRZA MSW	203	G1.466.0702.7		GB 178
94.435.4003.1	BST1413KF-S 50 40SW	72	99.401.9999.9	GST1813 B10	117	G1.466.1002.7		GB 178
94.435.4004.1	BST1413KFB 50 40SW	72	99.403.5802.2	GST1813S S1NZRZA MSW	12	G1.663.0203.1		GB 179
94.435.5000.1	BST1413KFB 50 50SW	72	99.411.0028.0		49	G1.663.0303.1		GB 179
94.435.5004.1	BST1413KF-S 50 50SW	72	99.412.0028.0		49	G1.663.0403.1		GB 179
94.435.6000.1	BST1413KFB 50 60SW	72	99.413.0028.0		49	G1.663.0503.1		GB 179
94.435.6003.1	BST1413KF-S 50 60SW	72	99.414.0028.0		49	G1.663.0703.1		GB 179
94.435.6004.1	BST1413KF-S 50 60SW	72	99.415.0028.0		49	G1.663.1003.1		GB 179
94.435.7000.1	BST1413KFB 50 70SW	72	99.416.0028.0		49	G1.763.0201.7		GB 181
94.435.7003.1	BST1413KFB 50 70SW	72	99.417.0028.0		49	G1.763.0301.7		GB 181
94.435.7004.1	BST1413KF-S 50 70SW	72	99.418.0028.0		49	G1.763.0401.7		GB 181
94.435.8000.1	BST1413KFB 50 80SW	72	99.429.5807.6	GST1813S B1NZRZA MWS	12	G1.763.0501.7		GB 181
94.435.8003.1	BST1413KF-S 50 80SW	72	99.431.0028.0		49	G1.763.0701.7		GB 181
94.435.8004.1	BST1413KF-S 50 80SW	72	99.432.0028.0		49	G1.763.1001.7		GB 181
94.502.1000.7	EST213FKSBS 2 10GNSW	59	99.433.0028.0		49	G1.764.0201.7		GB 180
94.502.1003.7	EST213FKSBS 2 10GNSW	59	99.433.5802.2	GST1813S B1NZRZA MGR01	12	G1.764.0301.7		GB 180
94.502.1004.7	EST213FKS-S 2 10GNSW	59	99.434.0028.0	GST1813S B1NZRZA MRT03	12	G1.764.0401.7		GB 180
94.502.2000.7	EST213FKSBS 2 20GNSW	59	99.434.5802.2		49	G1.764.0501.7		GB 180
94.502.2003.7	EST213FKS-S 2 20GNSW	59	99.435.0028.0		49	G1.764.0701.7		GB 180
94.502.2004.7	EST213FKSBS 2 20GNSW	59	99.436.0028.0		49	G1.764.1001.7		GB 180
94.502.3000.7	EST213FKSBS 2 30GNSW	59	99.436.5802.2	GST1813S B1NZRZA MBR05	12	G1.765.0201.7		GB 180
94.502.3003.7	EST213FKSBS 2 30GNSW	59	99.437.0028.0		49	G1.765.0301.7		GB 180
94.502.3004.7	EST213FKS-S 2 30GNSW	59	99.437.5802.2	GST1813S S1NZRZA MGR01	12	G1.765.0401.7		GB 180
94.502.4000.7	EST213FKSBS 2 40GNSW	59	99.438.0028.0	GST1813S S1NZRZA MRT03	12	G1.765.0501.7		GB 180
94.502.4003.7	EST213FKS-S 2 40GNSW	59	99.438.5802.2	GST1813S S1NZRZA MBR05	12	G1.765.0701.7		GB 180
94.502.4004.7	EST213FKSBS 2 40GNSW	59	99.440.5802.2		110	G1.766.0201.7		GB 180
94.502.5000.7	EST213FKSBS 2 50GNSW	59	99.448.9999.9		117	G1.766.0301.7		GB 180
94.502.5003.7	EST213FKS-S 2 50GNSW	59	99.449.9999.9		110	G1.766.0401.7		GB 180
94.502.5004.7	EST213FKS-S 2 50GNSW	59	99.450.9999.9		49	G1.766.0501.7		GB 180
94.502.6000.7	EST213FKSBS 2 60GNSW	59	99.451.0028.0		49	G1.766.0701.7		GB 180
94.502.6003.7	EST213FKSBS 2 60GNSW	59	99.452.0028.0		49	G1.766.1001.7		GB 180
94.502.6004.7	EST213FKS-S 2 60GNSW	59	99.453.0028.0		49	G1.830.0012.1		GB 168
94.502.7000.7	EST213FKSBS 2 70GNSW	59	99.454.0028.0		49	G1.830.0042.1		GB 168
94.502.7003.7	EST213FKSBS 2 70GNSW	59	99.455.0028.0		49	G1.830.0062.1		GB 168
94.502.7004.7	EST213FKS-S 2 70GNSW	59	99.456.0028.0		49	G1.833.0412.1		GB 168
94.502.8000.7	EST213FKSBS 2 80GNSW	59	99.457.0028.0		49	G1.834.0442.1		GB 168
94.502.8003.7	EST213FKS-S 2 80GNSW	59	99.458.0028.0		12	G1.840.0012.1		GB 174
94.502.8004.7	EST213FKSBS 2 80GNSW	59	99.471.5807.6	GST1813S S1NZRZA MWS	55	G1.840.0042.1		GB 174
94.512.1000.1	EST313FKSBS 2 10SWSW	77	99.471.0040.0	BST1412	73	G1.840.0062.1		GB 174
94.512.1003.1	EST313FKS-S 2 10SWSW	77	99.472.0000.0	EST 213	60	G1.843.0412.1		GB 173
94.512.1004.1	EST313FKS-S 2 10SWSW	77	99.473.0000.0	EST 215	66	G1.843.0422.1		GB 173
94.512.2000.1	EST313FKSBS 2 20SWSW	77	99.474.0000.0	EST 315	78	G1.844.0442.1		GB 173
94.512.2003.1	EST313FKS-S 2 20SWSW	77	99.475.0000.0	EST 315	106	G1.845.0432.2		GB 173
94.512.2004.1	EST313FKS-S 2 20SWSW	77	99.476.0000.0	NDL13 7-POLIG	25	G1.845.0472.2		GB 173
94.512.3000.1	EST313FKSBS 2 30SWSW	77	99.477.0000.0	GST1813	32	G1.860.0042.7		GB 184
94.512.3003.1	EST313FKS-S 2 30SWSW	77	99.478.0000.0	GST1814	44	G1.863.0422.7		GB 184
94.512.3004.1	EST313FKS-S 2 30SWSW	77	99.479.0000.0	GST1815	25	G1.864.0442.7		GB 184
94.512.4000.1	EST313FKSBS 2 40SWSW	77	99.480.0000.0		25	G1.865.0432.7		GB 184
94.512.4003.1	EST313FKS-S 2 40SWSW	77	99.500.0028.0		25	G1.933.0502.2		GB 166
94.512.4004.1	EST313FKS-S 2 40SWSW	77	99.501.0028.0		32	G1.933.0542.2		GB 166
94.512.5000.1	EST313FKSBS 2 50SWSW	77	99.502.0028.0		170	G1.943.0502.1		GB 175
94.512.5003.1	EST313FKS-S 2 50SWSW	77	G1.044.0203.1		170	G1.943.0542.1		GB 175
94.512.5004.1	EST313FKS-S 2 50SWSW	77	G1.044.0203.1		170	G1.944.0502.1		GB 175
94.512.6000.1	EST313FKSBS 2 60SWSW	77	G1.044.0302.1		171	G1.944.0542.1		GB 175
94.512.6003.1	EST313FKS-S 2 60SWSW	77	G1.044.0303.1		170	G1.953.0502.1		GB 177
94.512.6004.1	EST313FKS-S 2 60SWSW	77	G1.044.0402.1		171	G1.953.0542.1		GB 177
94.512.7000.1	EST313FKSBS 2 70SWSW	77	G1.044.0403.1		170	G1.954.0502.1		GB 177
94.512.7003.1	EST313FKS-S 2 70SWSW	77	G1.044.0502.1		171	G1.954.0542.1		GB 177
94.512.7004.1	EST313FKS-S 2 70SWSW	77	G1.044.0503.1		170	G1.955.0502.1		GB 177
94.512.8000.1	EST313FKSBS 2 80SWSW	77	G1.044.0703.1		171	G1.955.0542.1		GB 177
94.512.8003.1	EST313FKS-S 2 80SWSW	77	G1.044.1002.1		170	G1.963.0502.7		GB 189
94.512.8004.1	EST313FKS-S 2 80SWSW	77	G1.044.1003.1		171	G1.963.0532.7		GB 187
94.553.1000.7	EST215FKSBS 3 10GNSW	65	G1.055.0202.1		176	G1.963.0542.7		GB 188
94.553.1003.7	EST215FKS-S 3 10GNSW	65	G1.055.0302.1		176	G1.964.0502.7		GB 189
94.553.1004.7	EST215FKS-S 3 10GNSW	65	G1.055.0402.1		176	G1.964.0532.7		GB 187
94.553.2000.7	EST215FKSBS 3 20GNSW	65	G1.055.0502.1		176	G1.964.0542.7		GB 188
94.553.2003.7	EST215FKS-S 3 20GNSW	65	G1.055.0702.1		176	G1.965.0502.7		GB 189
94.553.2004.7	EST215FKSBS 3 20GNSW	65	G1.055.1002.1		176	G1.965.0532.7		GB 187
94.553.3000.7	EST215FKSBS 3 30GNSW	65	G1.066.0202.7		178	G1.965.0542.7		GB 188
94.553.3003.7	EST215FKS-S 3 30GNSW	65	G1.066.0302.7		178	G1.966.0502.7		GB 189
94.553.3004.7	EST215FKS-S 3 30GNSW	65	G1.066.0402.7		178	G1.966.0532.7		GB 187
94.553.4000.7	EST215FKSBS 3 40GNSW	65	G1.066.0502.7		178	G1.966.0542.7		GB 188
94.553.4003.7	EST215FKS-S 3 40GNSW	65	G1.066.0702.7		178	G3.031.0102.1		156
94.553.4004.7	EST215FKS-S 3 40GNSW	65	G1.066.1002.7		178	G3.031.0102.2		156
94.553.5000.7	EST215FKSBS 3 50GNSW	65	G1.130.3813.1		169	G3.031.0103.1		157
94.553.5003.7	EST215FKS-S 3 50GNSW	65	G1.130.3823.1		169	G3.031.0103.2		157
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G3.032.0202.1		158	G3.333.0303.2		161	G7.032.0203.1		195
G3.032.0202.2		158	G3.333.0402.1		160	G7.032.0302.1		194
G3.032.0203.1		159	G3.333.0402.2		160	G7.032.0303.1		195
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G3.032.0403.2		159	G3.333.0603.1		161	G7.032.0703.1		195
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G3.032.0602.2		158	G3.333.0702.1		160	G7.033.0203.1		197
G3.032.0603.1		159	G3.333.0802.1		160	G7.033.0302.1		196
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G3.032.0802.2		158	G3.431.0103.1		157	G7.033.0602.1		196
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G3.033.0303.1		161	G3.431.0403.2		157	G7.331.0403.1		193
G3.033.0303.2		161	G3.431.0502.1		156	G7.331.0502.1		192
G3.033.0402.1		160	G3.431.0502.2		156	G7.331.0503.1		193
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G3.331.0403.2		157	G3.432.0603.1		159	G7.333.0703.1		197
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G3.331.0603.2		157	G3.432.0802.1		158	G7.431.0303.1		193
G3.331.0702.1		156	G3.432.0802.2		158	G7.431.0402.1		192
G3.331.0702.2		156	G3.432.0803.1		159	G7.431.0403.1		193
G3.331.0703.1		157	G3.432.0803.2		159	G7.431.0502.1		192
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G3.331.0802.2		156	G3.433.0103.1		161	G7.431.0603.1		193
G3.331.0803.1		157	G3.433.0103.2		161	G7.431.0702.1		192
G3.331.0803.2		157	G3.433.0202.1		160	G7.431.0703.1		193
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G3.332.0402.2		158	G3.433.0503.1		161	G7.432.0603.1		195
G3.332.0403.1		159	G3.433.0503.2		161	G7.432.0702.1		194
G3.332.0403.2		159	G3.433.0602.1		160	G7.432.0703.1		195
G3.332.0402.1		158	G3.433.0602.2		160	G7.432.0802.1		194
G3.332.0402.2		158	G3.433.0603.1		161	G7.432.0803.1		195
G3.332.0502.1		158	G3.433.0603.2		161	G7.433.0102.1		196
G3.332.0502.2		158	G3.433.0702.1		160	G7.433.0103.1		197
G3.332.0503.1		159	G3.433.0702.2		160	G7.433.0202.1		196
G3.332.0503.2		159	G3.433.0703.1		161	G7.433.0203.1		197
G3.332.0602.1		158	G3.433.0703.2		161	G7.433.0302.1		196
G3.332.0602.2		158	G3.433.0802.1		160	G7.433.0303.1		197
G3.332.0603.1		159	G3.433.0802.2		160	G7.433.0402.1		196
G3.332.0603.2		159	G3.433.0803.1		161	G7.433.0403.1		197
G3.332.0702.1		158	G3.433.0803.2		161	G7.433.0502.1		196
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G3.332.0703.1		159	G7.031.0102.1		192	G7.433.0602.1		196
G3.332.0703.2		159	G7.031.0103.1		193	G7.433.0603.1		197
G3.332.0802.1		158	G7.031.0202.1		192	G7.433.0702.1		196
G3.332.0802.2		158	G7.031.0203.1		193	G7.433.0703.1		197
G3.332.0803.1		159	G7.031.0302.1		192	G7.433.0802.1		196
G3.332.0803.2		159	G7.031.0303.1		193	G7.433.0803.1		197
G3.333.0102.1		160	G7.031.0402.1		192	Z5.586.4653.0	ST17/2B VS	117
G3.333.0102.2		160	G7.031.0403.1		193	Z5.586.4653.1	ST17/2B VS	117
G3.333.0103.1		161	G7.031.0502.1		192	Z8.000.0175.4	FKS 2.0 A	111
G3.333.0103.2		161	G7.031.0503.1		193	Z8.000.0175.5	FKS 3.0 A	111
G3.333.0202.1		160	G7.031.0602.1		192	Z8.000.0175.7	FKS 5.0 A	111
G3.333.0202.2		160	G7.031.0603.1		193	Z8.000.0175.9	FKS 10.0 A	



... can be found in the following brochures

0017.5 (German)	fasis/selos BIT	Installationsreihenklemmen (Installation terminals)
0051.0 (German)	wietap/wietam	Überspannungsschutzeinrichtungen für Energie- und MSR-Technik
0116.0 (English)	wietap/wietam	Surge protection for energy, measurement and control systems
0058.0 (German)	podis CON	Energiebus für erhöhte Schutzart (IP 65)
0117.0 (English)	podis CON	Energy bus for higher level of protection (IP 65)

And the complete range can be found in our main catalogue

0004.0 (German)	Elektrische Verbindungen	(Reihen-, Geräteanschluss-, Leiterplattenklemmen, Elektronikkomponenten, Industriesteckverbinder)
0105.0 (English)	Electrical Connections	(DIN rail terminals, appliance terminals, PCB terminals, electronics, multipole connectors)

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Product range

DIN rail terminal blocks

- with screw connection
- with spring connection
- with IDC connection

Terminal blocks for electrical installations

- with screw connection
- with spring connection

Lighting and appliance terminals

Terminal strips

PC board connectors

- modular/pluggable
- insulated headers
- rising cage clamp/
plug connectors
- TOP connection
- Spring connection
- electronics housings

Electronics components

- relay modules
- solid-state modules
- interface modules
- function modules
- Power Supplies

Fieldbus components

- motor starter
- power bus
- distributed I/Os

Systems for electrical installation

- Mains connectors
- Bus connectors
- Compact connectors
- Low voltage connectors
- Flat cable systems
- Distribution systems
- EIB switching devices

Multipole connectors

Multipole adapter

EExi

Data cablefeed-through

Connectors with mixed contacts

