wieland

gesis® NRG

Flat cable system
2 pole, 5 pole, and 5+2 pole

Docking whenever, wherever

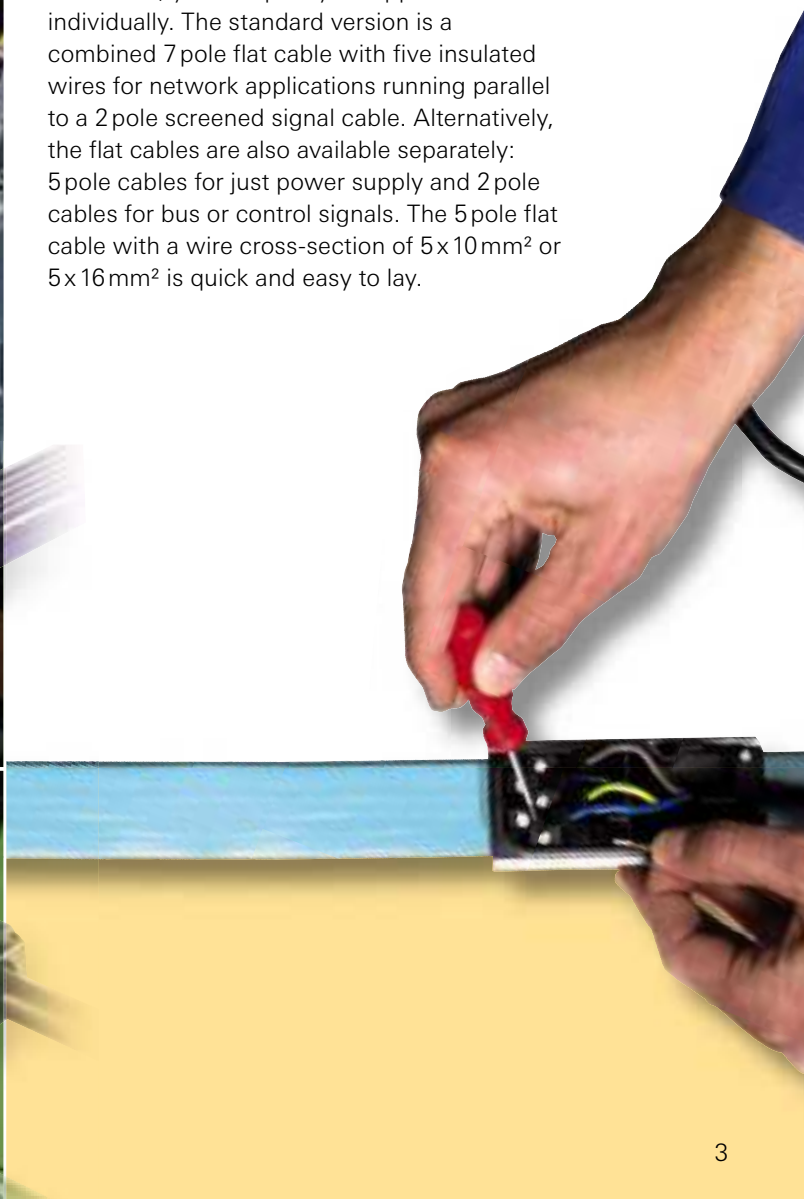
Anywhere where energy is needed

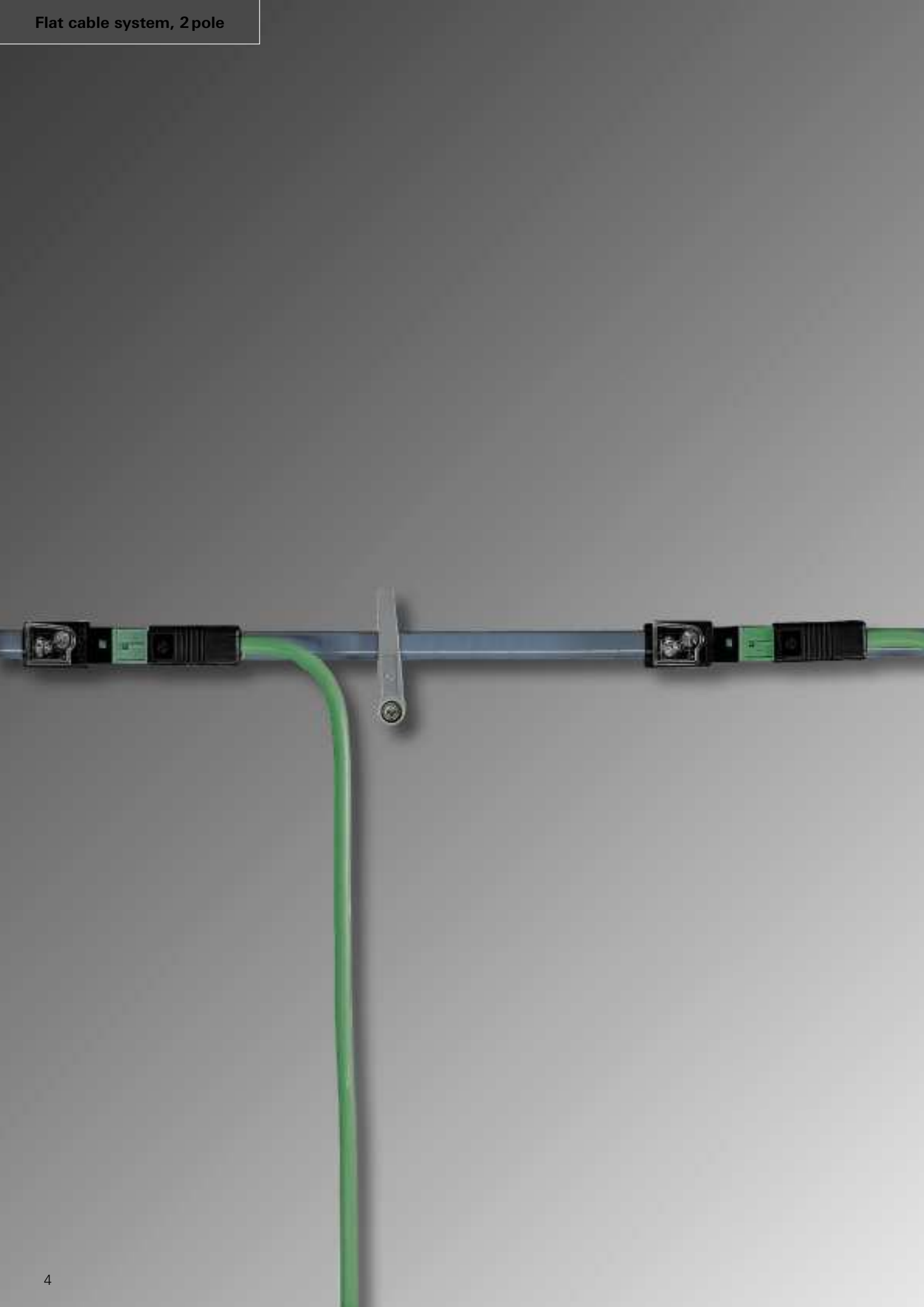
Flexible contact without cutting the cable!

The flexible busbar ***gesis*** NRG functions as a central supply cable for efficient installations. Contacts are made by means of insulation-piercing connection technology using V screws and are possible in any position along the main line. This means that transfer to the desired ***gesis*** product line is achieved without having to cut the cable.

The main advantage is its flexibility: unlike rigid busbars, the flat cable can be installed conveniently in cable ducts and adapts optimally to the structural conditions on site. Once inserted, the branches can be set exactly where they are needed – without line interruption.

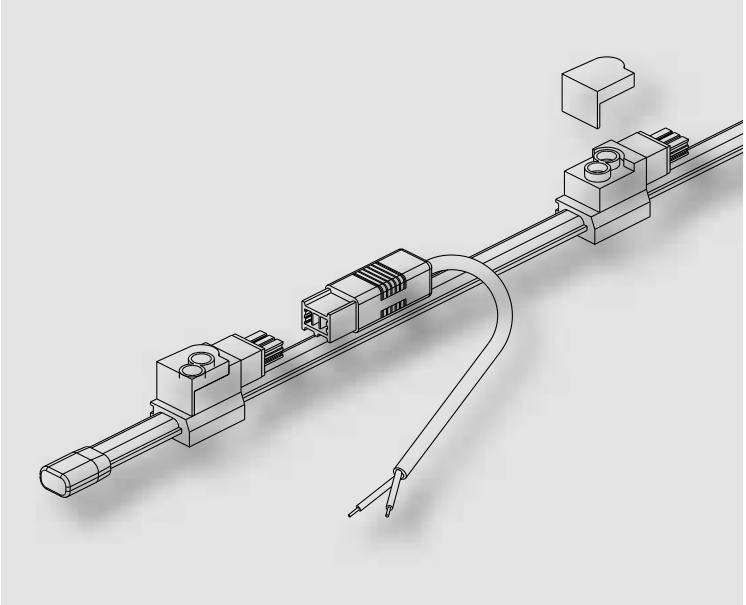
With different pole number options for the flat cables, you can plan your applications individually. The standard version is a combined 7 pole flat cable with five insulated wires for network applications running parallel to a 2 pole screened signal cable. Alternatively, the flat cables are also available separately: 5 pole cables for just power supply and 2 pole cables for bus or control signals. The 5 pole flat cable with a wire cross-section of 5 x 10 mm² or 5 x 16 mm² is quick and easy to lay.





Branches precisely where they are needed – without cutting the cable

Application example



General

Choosing a flat cable system gives you all the benefits of a modern electrical installation.
Once the flat cable has been installed, you can position branches exactly where you need them, quickly and safely – without cutting the cable!
This means that modifications or extensions can be made particularly quickly and cost-effectively.
The pluggable flat cable adapters can be used for input and output and are available in two different mechanical codings. Direct routing to the consumer is done with connectors of the chosen line and coding. Mechanical coding means that only matching plug-socket pairs with the same code can be used, and with the correct polarity. This gives you the security of a clear distinction between different applications – without any reworking required due to incorrect connections. The color of the connectors indicates the relevant links.

Coding

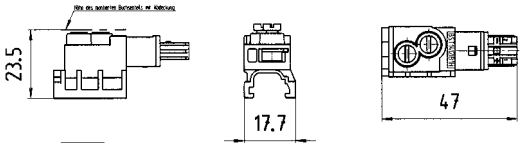
Name	Description	Direct routing with line components	Connection technology	Strain relief housing	Connections per pole	Mechanical coding	Application	Color
Flat cable	Bus: 2 x 1.5 mm² shielded PVC		Insulation piercing					gray
	Bus: 2 x 1.5 mm² shielded halogen-free							gray with FR/LSOH
Output/input KNX bus 2 pole	Flat cable adapter with output parallel to line	BST 14i2	pre-assembled, with male and female connector			KNX signals	Code 1	green
Output/input Bus/control signals 2 pole		BST 14i3				Bus and control signals	Code 3	black

Please see the first pages of the Technical Data section for a table of the approximated relation between the conductor cross sections and the AWG sizes; for packaging units please refer to price list and e-CAT.

Flat cable adapter for direct routing BST 14i2/i3, 0.5 mm²

Flat cable adapter for BST 14i2 KNX bus

Name	Color	Part no.
Flat cable adapter BST 14i2	green	93.421.0953.0



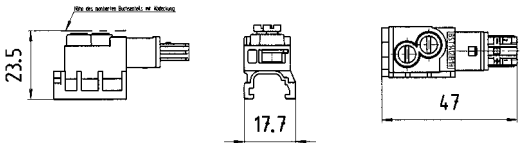
Supplied without cable.

Flat cable adapter for KNX bus, 2 pole	
Connection technology	insulation piercing
Tapping	2 pole bus signal
Connection cable direction	parallel to line
Female connector	BST 14i2
Output, input	with male connector

Flat cable adapter for BST 14i3 for control signals

Screen tapping not provided.
The third pole of the connector thus remains free.

Name	Tapping outside conductor	Part no.
Flat cable adapter BST 14i3	black	93.421.2953.1



Supplied without cable.

Flat cable adapter for control signals, 2 pole	
Connection technology	insulation piercing
Tapping	2 pole control signals
Connection cable direction	parallel to line
Female connector	BST 14i3
Output, input	with male connector

Flat cable 50 V, 3 A

Cable end cap

Name	Part no.
Cable end cap	05.562.4400.0

Supplied without cable.

Installation	at every cable end
Sheath strip length	

Flat cable

Name	Color	Part no.
Flat cable	gray	00.702.1022.3

Functional safety can only be guaranteed, if the original cable is used.
For more information see Technical Data.

PVC, for bus 2 x 1.5 mm²	
Insulation material	PVC
Screen	triple shielded, complies with KNX specification
Color	gray
max. stripping length	1,000 m

Flat cable

Name	Color	Part no.
Flat cable, halogen-free	gray	00.709.1022.3

Functional safety can only be guaranteed, if the original cable is used.
For more information see Technical Data.

halogen-free, for bus 2 x 1.5 mm²	
Insulation material	thermoplastic PE compound
Screen	triple shielded, complies with KNX specification
Color	gray
Marking	LSOH
max. stripping length	1,000 m

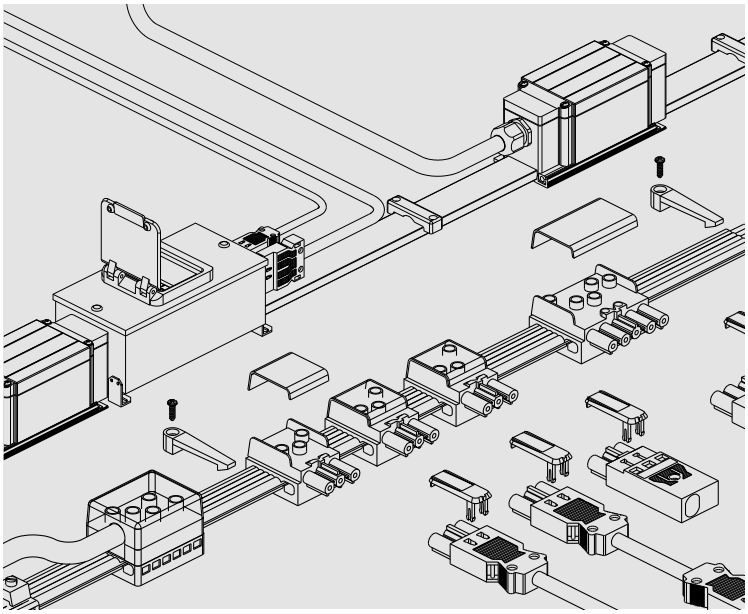
Cable clip

Name	Color	Part no.
Cable clip	gray	05.562.3000.0

for flat cable

Branches precisely where they are needed – without cutting the cable

Application example



General

Choosing a flat cable system gives you all the benefits of a modern electrical installation. Once the flat cable has been installed, you can position branches exactly where you need them, quickly and safely – without cutting the cable! This means that modifications or extensions can be made particularly quickly and cost-effectively. The flat cable adapter comes in three versions: an incoming supply adapter for connecting to the flat cable as well as pluggable outgoing adapters as 5 pole and 3 pole models.
With ***gesis*** NRG, contact with the wires is achieved by screwing in special V screws that pierce the cable sheathing. The flat cable system allows an installation to be subdivided into individual sections, resulting in a flexible, transparent, and maintenance-friendly installation. Unlike rigid busbar systems, the flat cable can be laid conveniently in cable ducts.

Coding

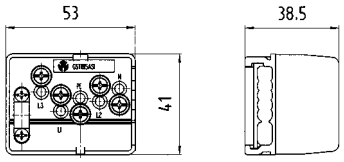
Name	Description	Direct routing with line components	Connection technology	Strain relief housing	Connections per pole	Mechanical coding	Color
Flat cable	Power: 5 x 2.5 mm² PVC		Insulation piercing				light green
	Power: 5 x 2.5 mm² halogen-free						light green with "FR/LSOH"
	Power: 5 x 10 mm² PVC						light green
	Power: 5 x 10 mm² halogen-free						light green with "FR/LSOH"
Input mains 5 pole	for cable diameters 5 – 13 mm		Screw	yes	1		black
	at the front via DIN rail terminal block 5 x 10 mm²		V screws	yes	1		
Output mains 5 pole	Flat cable adapter with output at right angle to line	GST 18i5	pre-assembled, with male and female connector			Code 1	
	Flat cable adapter with spring clamp output 5 x 4 mm²						
Output mains 3 pole	Flat cable adapter with output at right angle to line. Tapping of outside conductor L1, L2 or L3.	GST 18i3				Code 1	

Please see the first pages of the Technical Data section for a table of the approximated relation between the conductor cross sections and the AWG sizes; for packaging units please refer to price list and e-CAT.

Flat cable adapter for mains and direct routing GST 18i3/i5, 2.5 mm²

Infeed for mains

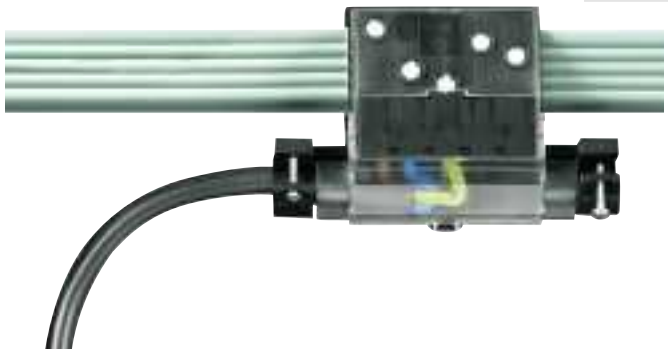
Name	Color	Part no.
GST18i5 ASIF5	black	92.050.8153.0



Supplied without cable.
For installation instructions see Technical Data.

Screw technology, 5 pole with strain relief	
Connection technology	insulation piercing
Infeed of	Phases, N, ground
Connection of	Round cables 5 x 2.5 mm²
Strain relief cable diameter	5 –13 mm
Cover	Round cable output on one side

Flat cable adapter mains

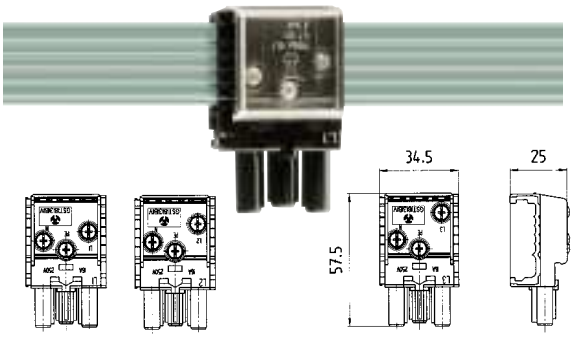


Name	Color	Part no.
Flat cable adapter mains	black	92.050.8653.0

Supplied without cable.
For installation instructions see Technical Data.

Screw technology, mains, 5 pole with strain relief on both sides	
Connection technology	insulation piercing
Tapping	Phases, N, ground
Connection cable direction	to any specification
small size (cable ducts)	optimized for limited space
Connections per pole	2, spring clamp
Strain relief cable diameter	5 –13 mm (H05VV, NYM)[1]
fine-stranded	0.5 – 1.5 mm² with ferrules[2]
rigid	0.5 – 2.5 mm²
Cover	Round cable output on both sides

Flat cable adapter for GST 18i3

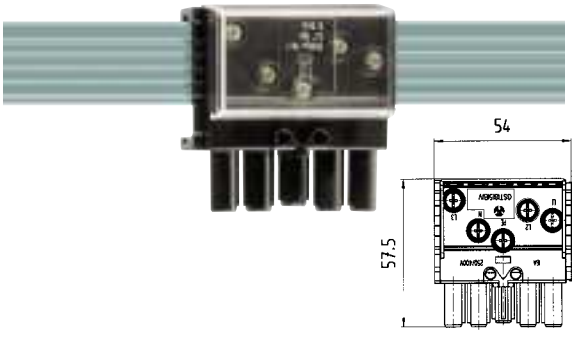


Name	Tapping outside conductor	Part no.
GST 18i3I B1 V F5 … 1	L1	92.031.5153.1
GST 18i3I B1 V F5 … 2	L2	92.031.5253.1
GST 18i3I B1 V F5 … 3	L3	92.031.5353.1

Supplied without cable.
For installation instructions see Technical Data.

Direct routing with GST 18i3 components, 3 pole	
Connection technology	insulation piercing
Tapping	Phases, N, ground
Output via	GST18i3 female connector
Direction of output	At right angles to cable entry
Locking device	required, for male connector

Flat cable adapter for GST 18i5



Name	Part no.
GST 18i5 B1V 75	92.051.0553.1

Supplied without cable.

Direct routing with GST 18i5 components, 5 pole	
Connection technology	insulation piercing
Tapping	Phases, N, ground
Output via	GST18i5 female connector
Direction of output	At right angles to cable entry
Locking device	required, for male connector

Flat cable 5 pole, 2,5 mm², 250/400 V, 16 A, IP 20

Cable end cap

Name	Part no.
Cable end cap	05.563.4700.0

Supplied without cable.

Safety clearance guaranteed	between individual conductors
Installation	at every cable end
Sheath strip length	20 mm

Flat cable

Name	Color	Part no.
Flat cable	light green	00.702.0303.7

Functional safety can only be guaranteed, if the original cable is used.
For more information see Technical Data.

PVC, for mains 5 x 2.5 mm²	
Insulation material	PVC
Color	light green
max. stripping length	350 m

⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

Flat cable

Name	Color	Part no.
Flat cable, halogen-free	light green	00.709.0303.7

Functional safety can only be guaranteed, if the original cable is used.
For more information see Technical Data.

halogen-free, for mains 5 x 2.5 mm²	
Insulation material	thermoplastic PE compound
Color	light green, marking LSOH
max. stripping length	350 m

⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

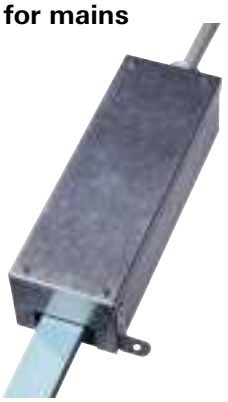
Locking device

Name	Color	Part no.
Locking device	black	05.587.3156.1

snap-on connection
(approval according to IEC 61535 requires a locking device)

Flat cable adapter for mains 5 pole, 10 mm² 250/400 V, 50 A, IP 20

Infeed for mains



Name	Color	Part no.
GST18i5 ASI EF8		92.050.8253.0

Supplied without cable. For installation instructions see Technical Data.

Screw technology, 5 pole with strain relief	
Incoming supply to flat cable	at the front
DIN rail terminal blocks for infeed	5 x 10 mm²
Connection of round cables	metrical cable gland M32
Round cable	NYM, H05VV-F, 5 x 10 mm²
Strain relief	for Wieland flat cable
Dimensions (L x W x H)	260 x 90 x 70 mm

Center supply for mains

Name	Color	Part no.
		92.050.8853.0

Supplied without cable. For installation instructions see Technical Data.

Screw technology, 5 pole with strain relief	
Incoming supply to flat cable	at the front
DIN rail terminal blocks for infeed	5 x 10 mm²
Connection of round cables	metrical cable gland M32
Round cable	NYM, H05VV-F, 5 x 10 mm²
Strain relief	for Wieland flat cable
Dimensions (L x W x H)	260 x 170 x 70 mm

Flat cable adapter mains

Name	Color	Part no.
GST18i5 ASI AF8		92.050.8353.0

Supplied without cable. For installation instructions see Technical Data.

Spring clamp, mains, 5 pole with strain relief	
Connection technology	insulation piercing
Tapping	Phases, N, ground
Strain relief for cables	2.5 – 4 mm² (H05VV, NYM)
Output	Spring clamp
solid/fine-stranded wires	5 x 4 mm²
Dimensions (L x W x H)	110 x 51 x 48 mm

Flat cable 5 pole, 10 mm², 250/400 V, 50 A, IP 20

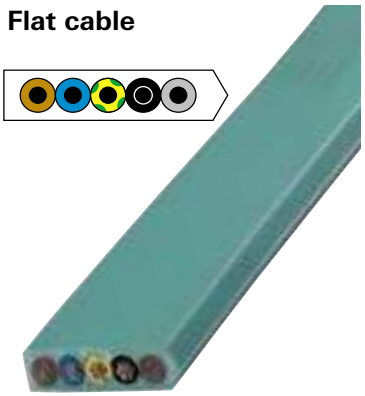
Cable end cap

Name	Part no.
Cable end cap	05.563.9353.0

Supplied without cable.

Safety clearance guaranteed	between individual conductors
Installation	at every cable end
Sheath strip length	20 mm

Flat cable



Name	Color	Part no.
Flat cable	light green	00.702.0306.7

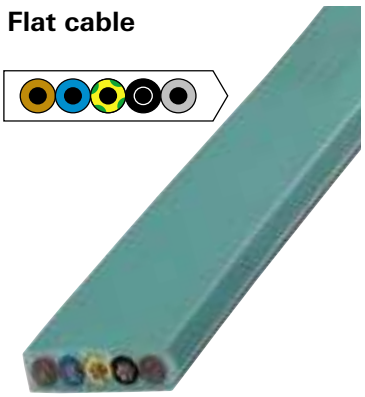
Functional safety can only be guaranteed, if the original cable is used.

For more information see Technical Data.

PVC, contains halogen	
Insulation material	PVC, contains halogen
Color	light green, RAL 6027
Stripping length	please state (max. 500 m)
Dimensions (W x H)	38.5 x 10 mm

⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

Flat cable



Name	Color	Part no.
Flat cable	light green	00.709.0306.7

Functional safety can only be guaranteed, if the original cable is used.

For more information see Technical Data.

halogen-free	
Insulation material	thermoplastic PE compound
Color	light green, RAL 6027
Marking	FR/LSOH
Stripping length	please state (max. 500 m)
Dimensions (W x H)	38.5 x 10 mm

⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

Flat cable adapter for mains 5 pole, 16 mm² 250/400 V, 63 A, IP 65

Infeed for mains

Name	Color	Part no.
GST18i5 ASI F9		92.050.8453.0

Supplied without cable. For installation instructions see Technical Data.

Screw technology, 5 pole	
Connection technology	insulation piercing
Incoming supply	Phases, N, ground
Connection of round cables	5 x 16 mm², screw connection
Cable gland	not supplied in delivery
Metrical cable gland	see Accessories
Dimensions (L x W x H)	200 x 85 x 91 mm

Flat cable adapter for mains (lead)

Name	Color	Part no.
GST18i5 ASI AF9		92.050.8553.0

Supplied without cable. For installation instructions see Technical Data.

Screw technology, 5 pole	
Connection technology	insulation piercing
Incoming supply	Phases, N, ground
Outputs	2, screw technology
solid/fine-stranded wires	5 x 6 mm², 32 A
Cable gland	not supplied in delivery
Metrical cable gland	see Accessories
Dimensions (L x W x H)	200 x 85 x 73 mm

Flat cable adapter incl. line circuit breaker

Name	Color	Part no.
Flat cable adapter		G0.000.0044.7

Supplied without cable.
[1] Other modifications available on request

Flat cable adapter incl. line circuit breaker	
Connection technology	insulation piercing
Degree of protection	IP 20
Tapping	Phases, N, ground
fused with	3 LS switch B 16 A[1]
Output	Male, female, GST 18i
Outputs	1 x 5 pole (GST 18i5) 3 x 3 pole (GST 18i3) L1 / L2 / L3, N, ground
Dimensions (L x W x H)	220 x 110 x 110 mm

Flat cable 5 pole, 16 mm², 250/400 V, 63 A, IP 65

Cable end cap

Name	Part no.
Cable end cap	05.563.9453.0

Supplied without cable.

Safety clearance guaranteed	between individual conductors
Installation	at every cable end
Sheath strip length	20 mm

Flat cable

Name	Color	Part no.
Flat cable PVC	light gray	00.702.0307.3

Functional safety can only be guaranteed, if the original cable is used.

For more information see Technical Data.

PVC, contains halogen	
Insulation material	PVC, contains halogen
Color	light gray
Stripping length	please state
Dimensions (W x H)	48,5 x 11,3 mm

⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

Flat cable

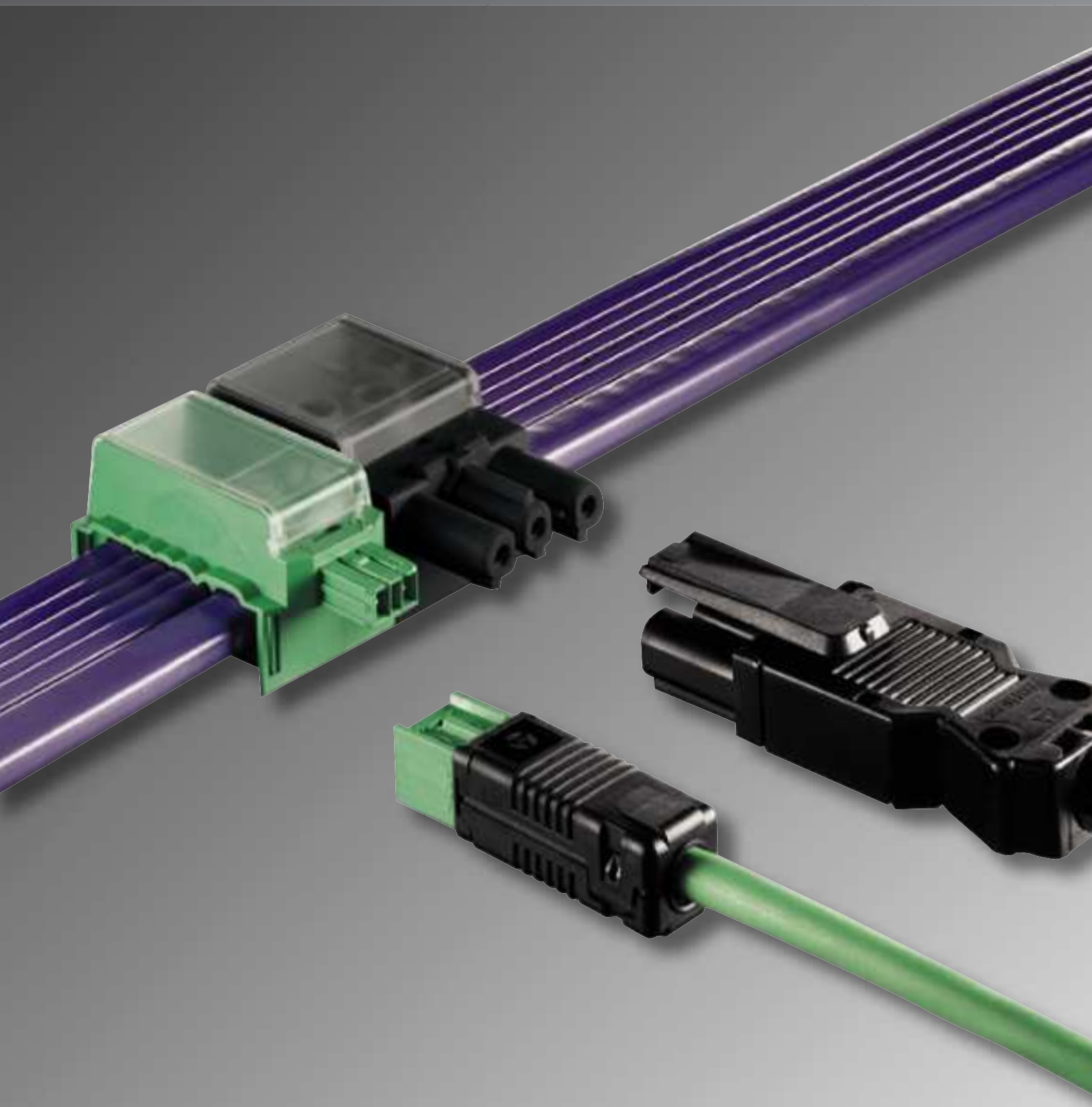
Name	Color	Part no.
Flat cable, halogen-free	light gray	00.709.0307.3

Functional safety can only be guaranteed, if the original cable is used.

For more information see Technical Data.

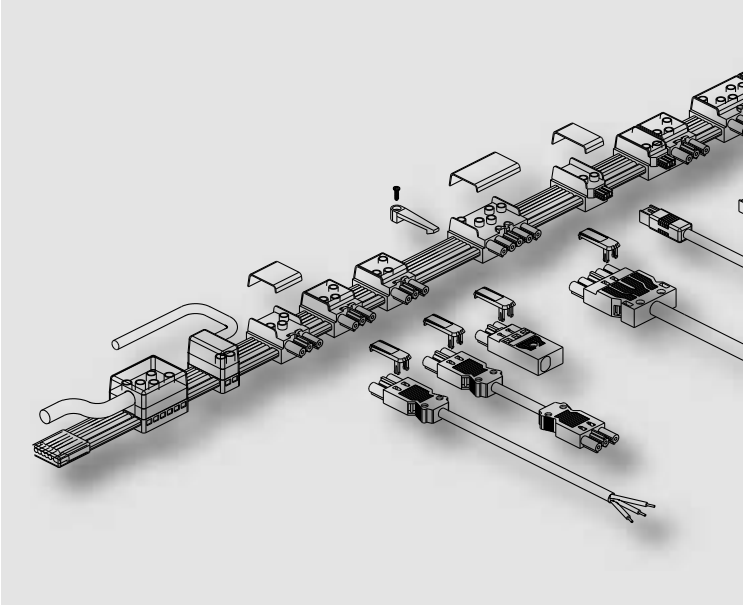
halogen-free, with FR/LSOH marking	
Insulation material	thermoplastic PE compound
Color	light gray
Marking	FR/LSOH
Stripping length	please state
Dimensions (W x H)	48.5 x 11.3 mm

⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY



Power supply and signal section together in one combination cable

Application example



Direct routing to the consumer is done with connectors of the chosen line and coding. Mechanical coding means that within a product line only matching plug-socket pairs with the same code can be used, and with the correct polarity. This gives you the security of a clear distinction between different applications – without any reworking required due to incorrect connections.

General

Choosing a flat cable system gives you all the benefits of a modern electrical installation.
Once the flat cable has been installed, you can position branches exactly where you need them, quickly and safely – without cutting the cable! This means that modifications or extensions can be made particularly quickly and cost-effectively.
The 5+2 pole flat cable brings together the power supply and the signal section in one combination cable. This type of connection has proven extremely advantageous in many applications, with only one cable having to be laid. The power and signal sections have separate infeed boxes, which supply the flat cable via a screw connection. The pluggable flat cable adapters provide an output function and therefore act as the transition to the chosen product line. Depending on requirements, this may be the GST 18i3 line (power 3 pole, L1, L2, L3), the GST 18i5 line (power 5 pole) or the BST 14i2/3 line (KNX bus/control signals).

Coding

Name	Description	Direct routing with line components	Connection technology	Strain relief housing	Connections per pole	Mechanical coding	Color
Flat cable	Power: 5 x 2,5 mm² Bus: 2 x 1,5 mm² shielded PVC		Insulation piercing				purple
	Power: 5 x 2,5 mm² Bus: 2 x 1,5 mm² shielded halogen-free						purple with "FR/LSOH"
Input mains 5 pole	for cable diameters 5 – 13 mm		Screw	yes	1		black
Supply bus/control signals 2 pole	for cable diameters 3 – 8 mm		V screws	yes	1		
Output mains 5 pole	(can be combined with output BST)	GST 18i5	pre-assembled, with male and female connector			Code 1	
Output mains 3 pole	Configurations L1, L2, L3 (can be combined with output BST)	GST 18i3				Code 1	
Output KNX bus 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

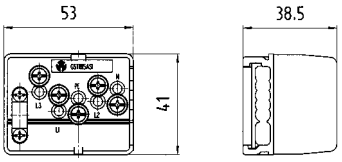
Please see the first pages of the Technical Data section for a table of the approximated relation between the conductor cross sections and the AWG sizes; for packaging units please refer to price list and e-CAT.

Supply for mains 5 pole and bus/control signal 2 pole, 16 A

Supply for mains 5 pole

Name	Color	Part no.
GST18i5 ASI	black	92.050.8053.0

Supplied without cable.
For installation instructions see Technical Data.

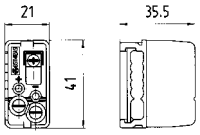


Screw technology, 5 pole with strain relief	
Connection technology	insulation piercing
Infeed of	Phases, N, ⏚
Connection of	Round cables 5 x 2.5 mm²
Strain relief cable diameter	5 –13 mm
Cover	Round cable output on one side

Supply for bus/control signal 2 pole

Name	Color	Part no.
BST14i2 ASI	black	93.420.1053.0

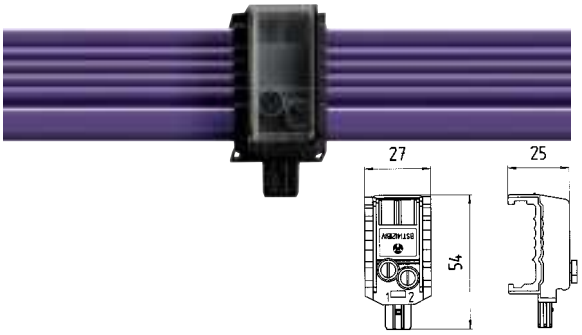
Supplied without cable.
For installation instructions see Technical Data.



Screw technology 2 pole with strain relief	
Connection technology	insulation piercing
Infeed of	Signals
Connection of	Round cables 2 x 1.5 mm²
Strain relief cable diameter	3 – 8 mm
Cover	Round cable output on one side

Flat cable adapter for bus, BST 14i2/i3, 50 V, 3 A mains, direct routing GST 18i3/i5, 16 A

Flat cable adapter for BST 14i3 for control signals

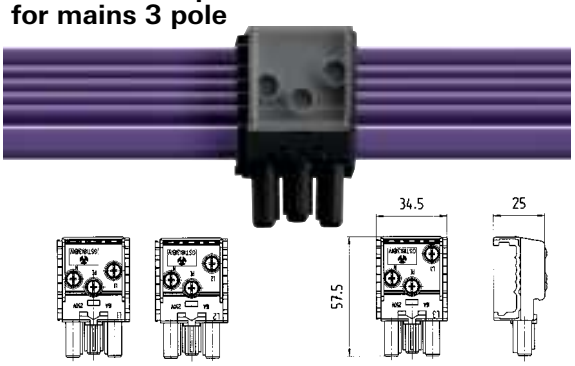


Name	Tapping outside conductor	Part no.
BST 14i3I B1 V ZB		93.421.2853.0

Supplied without cable. For installation instructions see Technical Data..

Direct routing with BST 14i3 components, 2 pole	
Connection technology	insulation piercing
Tapping	Screen tapping not provided 3rd pole remains free
Output via	BST14i3 female connector
Direction of output	At right angle to cable entry

Flat cable adapter for GST 18i3 for mains 3 pole

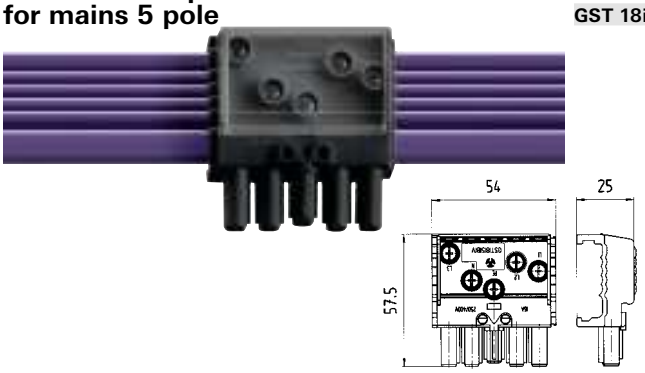


Name	Tapping outside conductor	Part no.
GST 18i3I B1 V ... 1	L1	92.031.4153.1
GST 18i3I B1 V ... 2	L2	92.031.4253.1
GST 18i3I B1 V ... 3	L3	92.031.4353.1

Supplied without cable. For installation instructions see Technical Data..

Direct routing with GST 18i3 components, 3 pole	
Connection technology	insulation piercing
Tapping	Phase, N, ⏚
Output via	GST18i3 female connector
Direction of output	At right angle to cable entry
Locking device	required, for male connector

Flat cable adapter for GST 18i5 for mains 5 pole



Name	Part no.
GST 18i5 B1 V	92.051.0353.1

Supplied without cable. For installation instructions see Technical Data..

Direct routing with GST 18i5 components, 5 pole	
Connection technology	insulation piercing
Tapping	Phases, N, ⏚
Output via	GST18i5 female connector
Direction of output	At right angle to cable entry
Locking device	required, for male connector

Flat cable 250/400 V, 16 A

Cable end cap

Name	Part no.
Cable end cap	05.562.2900.0

Supplied without cable.

Safety clearance guaranteed	between individual conductors
Installation	at every cable end
Sheath strip length	20 mm

Flat cable

Name	Color	Part no.
Flat cable	purple	00.702.0323.9

Functional safety can only be guaranteed, if the original cable is used.
For more information see Technical Data.

PVC, for mains 5 x 2.5 mm² and bus 2 x 1.5 mm²	
Insulation material	PVC
Color	purple
Screen	Triple screen, complies with KNX
max. stripping length	350 m

⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

1+ = Bus
2– = Bus

Flat cable, halogen-free

Name	Color	Part no.
Flat cable, halogen-free	purple	00.709.0323.9

Functional safety can only be guaranteed, if the original cable is used.
For more information see Technical Data.

PVC, for mains 5 x 2.5 mm² and bus 2 x 1.5 mm²	
Insulation material	thermoplastic PE compound
Color	purple
Screen	Triple screen, complies with KNX
Marking	LSOH
max. stripping length	350 m

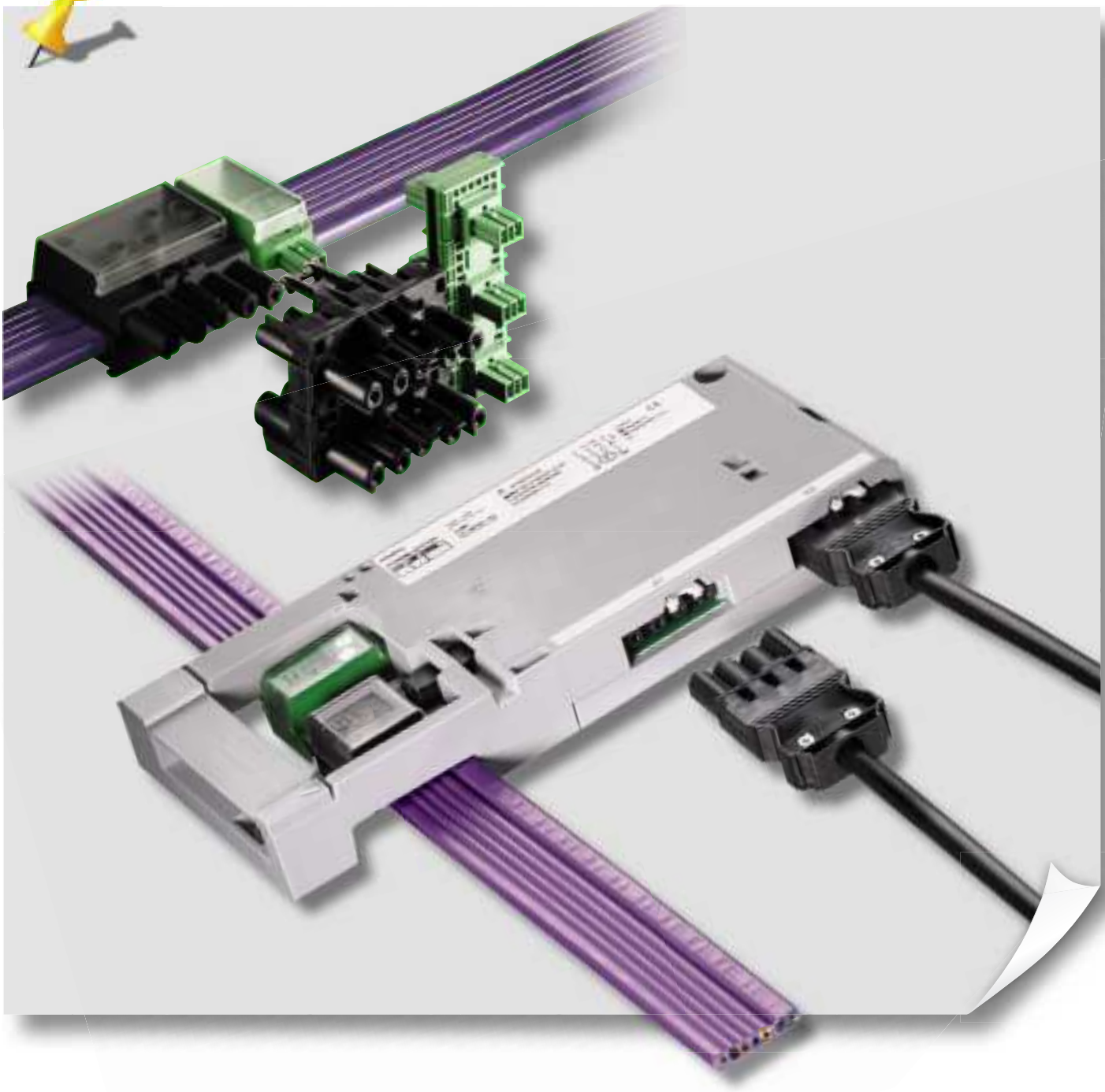
⏚ = GN/YE
N = BU
1 = BN
2 = BK
3 = GY

1+ = Bus
2– = Bus

Locking device

Name	Color	Part no.
Locking device	black	05.587.3156.1

snap-on connection
(approval according to IEC 61535 requires a locking device)



Flat cable accessories

Sheath stripping tool

Name	Part no.
Sheath stripping tool	95.350.0200.0

For flat cable stripping.

Cable cutter

Name	Part no.
Cable cutter	95.300.0300.0

For cutting the flat cable to length

Cable clip for flat cable

Name	Part no.
Cable clip	05.562.3000.0

For flat cable.

Cable clip for flat cable
10 mm²
16 mm²

Name	Part no.
Cable clip	05.563.9753.0

For flat cable.

Flat cable accessories

Stripping knife

Name	Part no.
Stripping knife	95.350.0500.0

For flat cable stripping.

Cable gland for connection boxes

M40 x 1.5

M25 x 1.5

M25 x 1.5

Name	Cable gland	Connection range mm	Part no.
Cable gland	M40 x 1.5	16 – 28 mm	Z5.507.1953.0
Cable gland	M25 x 1.5	7 – 16 mm	Z5.507.1553.0
Cable gland metal	M25 x 1.5	11 – 18 mm	Z5.507.1521.0

Filler plug for connection boxes

M25 x 1.5

Name	Cable gland	Connection range mm	Part no.
Filler plug	M25 x 1.5		05.507.4153.0

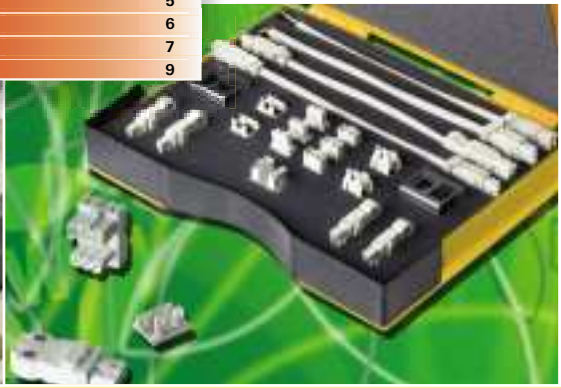
Definition of our numerical codes

A logical structure makes ordering easy

**Our numerical code saves time and effort when ordering our components.
Your needs can be compiled quickly and efficiently, particularly in eCat, but also using conventional means.
The way it works is simple and refers to our part numbers, which have a consistent structure. Your product can be ordered in just a few steps.**

Example: 92.232.3000.1, power cable 3 G 1.5 mm², length: 3.0 m, cable PVC H05VV Male – female design, code 1 (power, black)

			92.	232.	30	0	0.	1
Connector system								
gesis MINI	(GST 15)		91.					
gesis CON	(GST 18)		92.					
gesis CON	(BST)		94.					
gesis IP+	(RST)		96.					
Cable specification and cross section		**in connector system**						
Power cable 4 G 1.5 mm²		GST 15i4, 18i4		207.				
Power cable 4 G 2.5 mm²		GST 18i4		208.				
Power cable 2 x 1.5 mm²		RST 20i2		222.				
Power cable 2 x 2.5 mm²		RST 20i2		223.				
Power cable 3 G 1.5 mm²		GST 15i3, 18i3		232.				
Power cable 3 G 2.5 mm²		RST 20i3		233.				
Power cable 3 G 2.5 mm²		GST 18i3		238.				
Power cable 5 G 1.5 mm²		GST 15i5, 18i5		257.				
Power cable 5 G 2.5 mm²		GST 18i5		258.				
Bus cable 2 x 0.5 mm²		BST 14i2		425.				
Bus cable 2x2 0.8 mm²		BST 14i3		435.				
Power cable 4 G 1.5 mm²		RST 20i4		442.				
Power cable 4 G 2.5 mm²		RST 20i4		443.				
Power cable 5 G 1.5 mm²		RST 20i5		452.				
Power cable 5 G 2.5 mm²		RST 20i5		453.				
Power cable 5 G 4.0 mm²		RST 20i5		454.				
Power cable 2 x 1.5 mm²		RST 20i2 (50 V)		522.				
Length								
Length incl. female/male connector up to 10 m in dm (Example: 3.0 m = 30 dm)					30			
Cable material		**in connector system**						
H05VV (PVC)		GST, RST				0		
H05V2V2 (PVC, 90 °C permanent temp.)		GST, RST				1		
H07 RN-F (rubber)		GST, RST				3		
S05Z1Z1 (halogen-free)		GST, RST				6		
Ölflex classic		GST, RST				8		
Pre-assembly								
Extension	Male – Female						0.	
Supply	Female – Free end						3.	
Supply	Male – Free end						4.	
Supply cable	Safety plug – Female						7.	
Colors and codings Male – Female		**in connector system**						
Code 1	(gray)	RST 20i2 ... i5						0
Code 1	(black)	RST 20i2 ... i5, GST 18i3 ...i5						1
Code 1	(white)	GST 18i3 ...i5						2
Code 2	(pebble gray)	GST 18i3 ...i4						3
Code 3	(concrete gray)	RST 25i3 ...i4						3
Code 3	(light red)	GST 18i3						5
Code 4	(pastel blue)	RST 20i5						6
Code 2	(green)	RST 20i2						7
Code 5-2	(pastel blue)	BST 14i2, GST 18i5						9

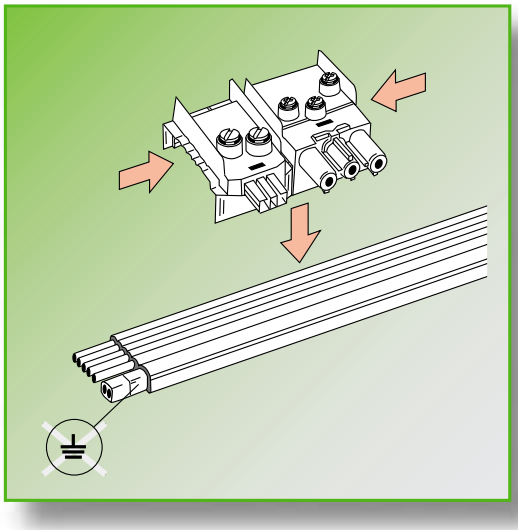


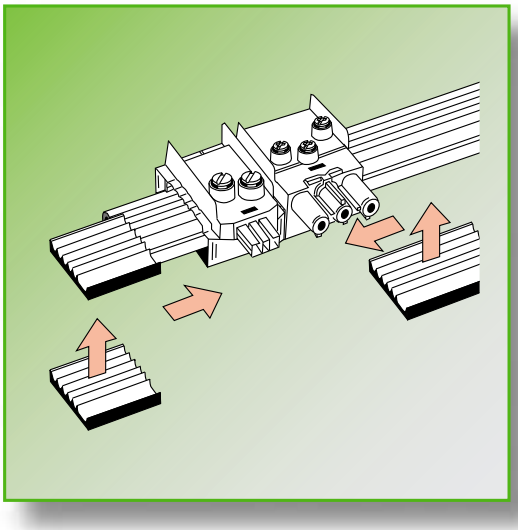
Conductor cross sections / AWG

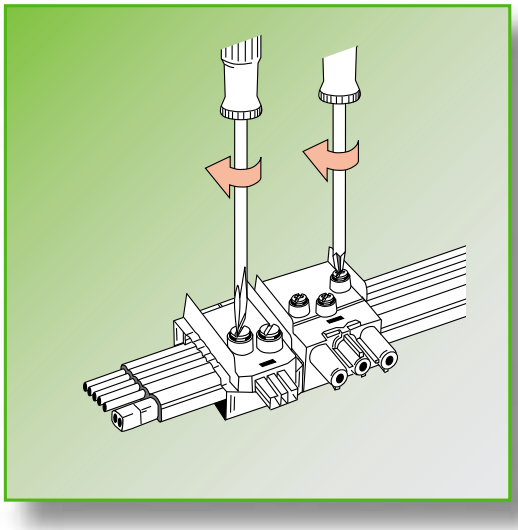
The approximated relation between the conductor cross sections in mm² and the AWG sizes are defined as follows:

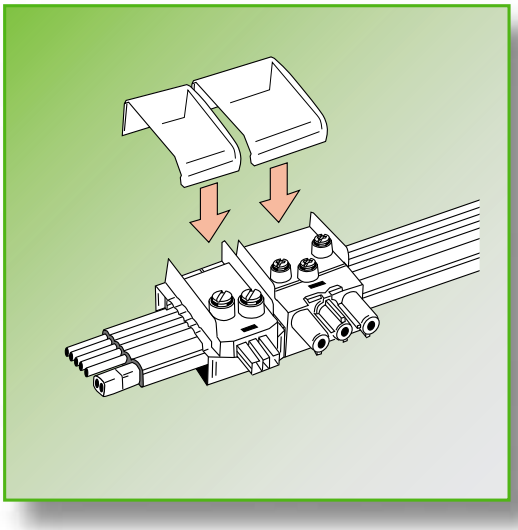
AWG	Cross section mm²	Metric equivalent mm²
22	0.32	0.34
20	0.52	0.75
18	0.82	1.0
16	1.31	1.5
14	2.08	2.5
12	3.31	4.0
10	5.26	6.0
8	8.37	10.0
6	13.3	16.0

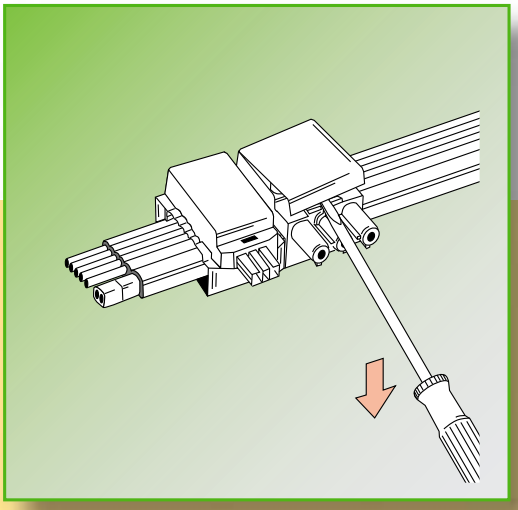
Installation instructions
Flat cable system 2 pole, 5 pole, and 5+2 pole



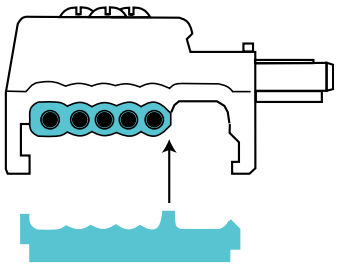




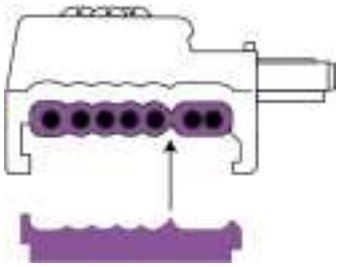




1. When connecting flat cable adapters for mains and KNX/control signal, note the latching side (3 pole on the left, 5 pole on the right). Latch the components together. Place the terminal block on the flat cable – note the coding on the cable!
2. Slide the base plate on – **note the coding on the terminal block and cable** (see diagram on the left)! The flat cable grooves on the terminal block as well as on the base plate indicate the correct position of the adapter on the cable – if the adapter is not positioned correctly, a great deal of force is required to slide the base plate on. The unit must then be rotated 180 degrees.
3. Turn the slotted screws as far as possible in the flat cable –
   Mains: torque 0.7 Nm.
   Bus: torque 1.0 Nm.
4. Place the cover(s) on top..



Flat cable system 5 pole

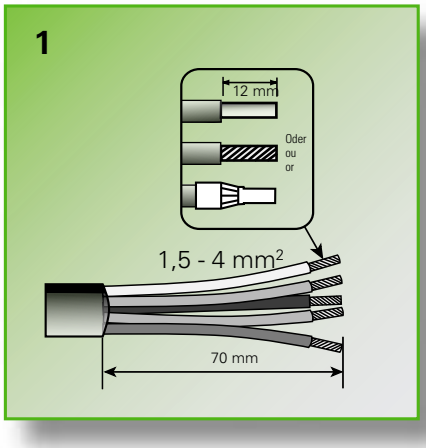


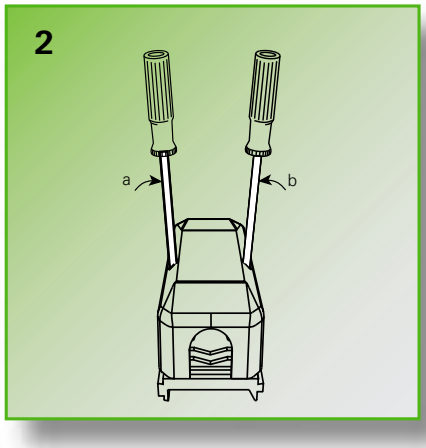
Flat cable system 5+2 pole

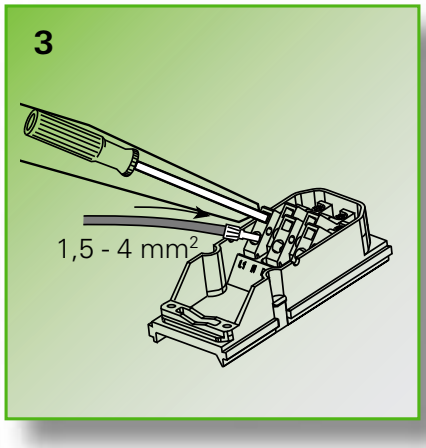
Additional information:

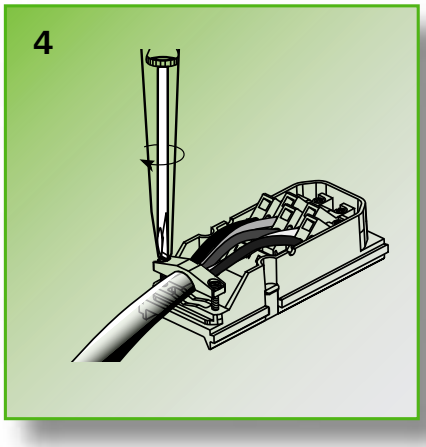
- When snapping on connectors use a locking device.
- To remove the cover, insert a screwdriver into the slot provided and raise gently.
- **The ends of the flat cable must be terminated with the cable end cap.** This guarantees the necessary insulation between bus and power conductors.
- After removing the adapters, the sections of cable that have been terminated with the slotted screws must be sealed with insulating tape.
- Caution: Do not ground the screen!
- Functional capability can only be guaranteed if the original flat cable is used.

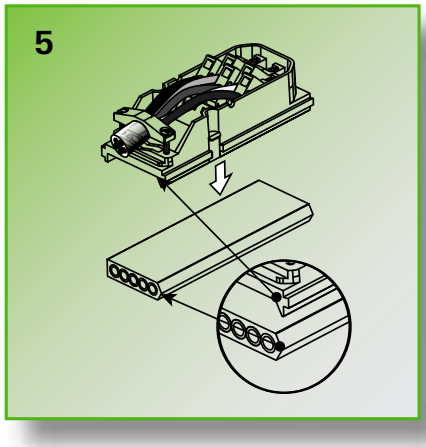
Installation instructions
Flat cable system 5-pole, 5 x 10 mm²

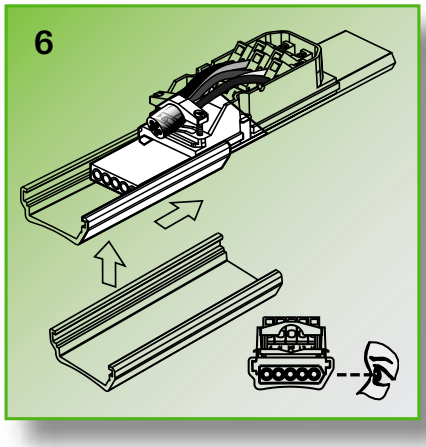


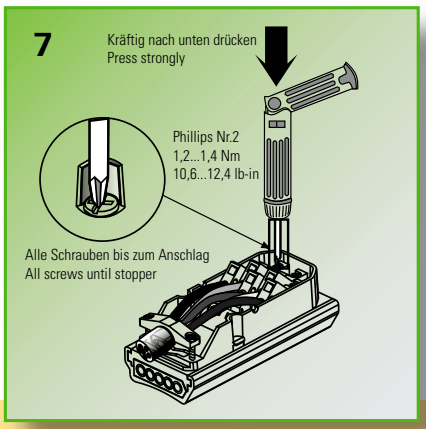


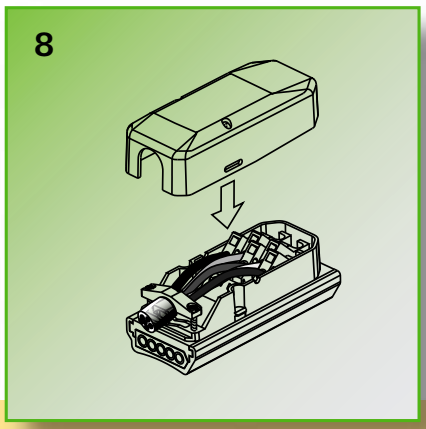


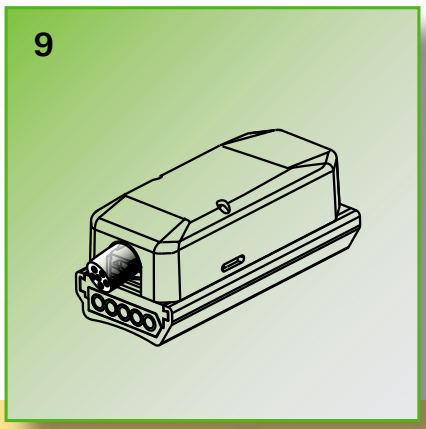




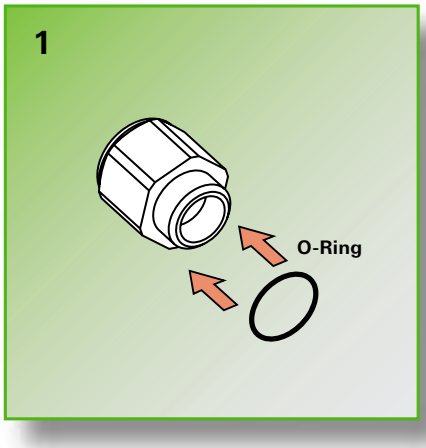


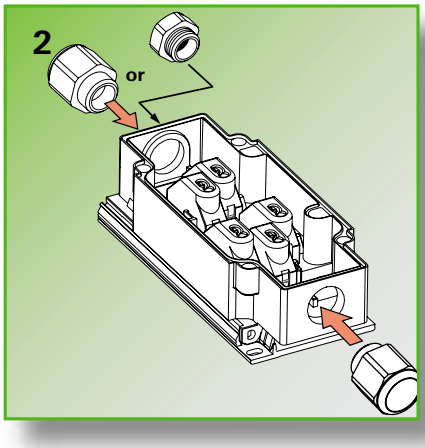


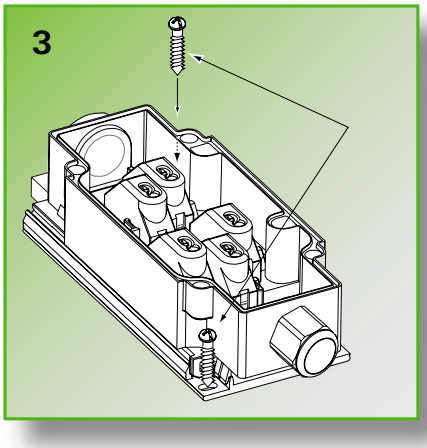


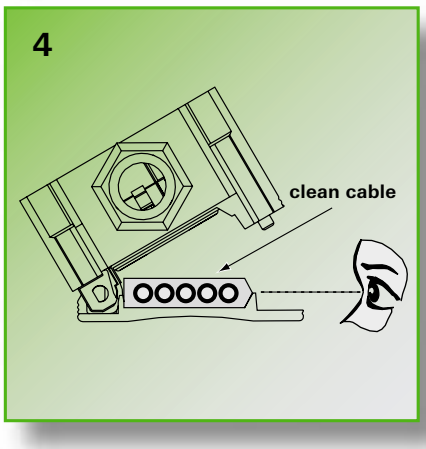


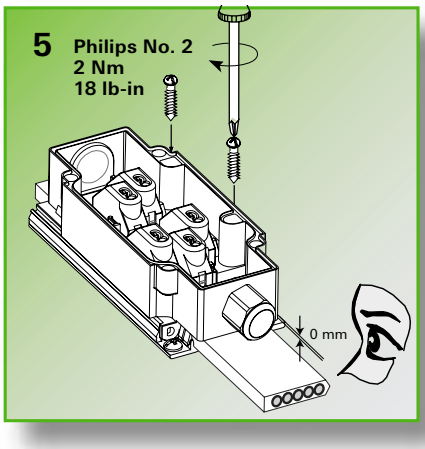
Installation instructions
Flat cable system 5-pole, 5 x 16 mm²

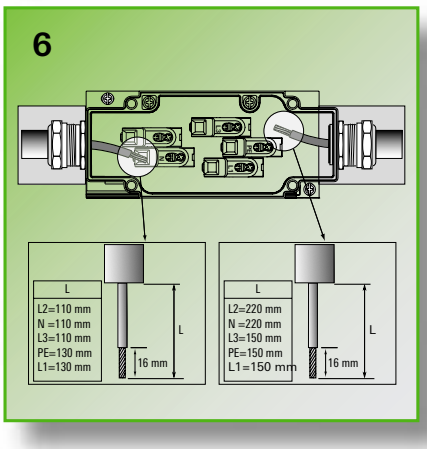


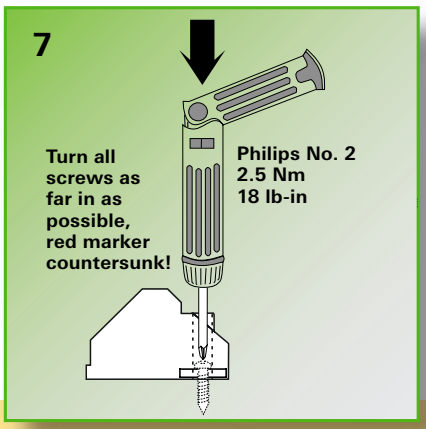


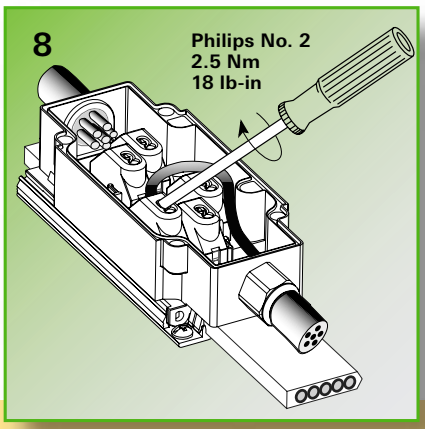


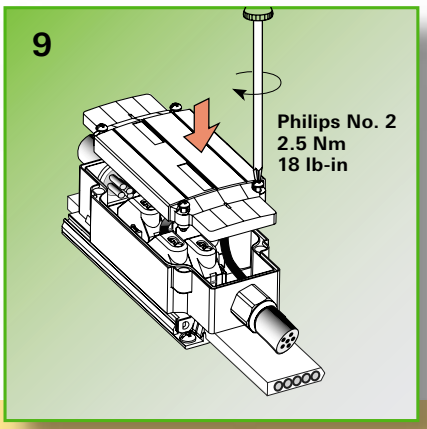












Technical data
Flat cable system 2 pole

Components:	**Flat cable adapter for BST 14i2** **Flat cable adapter for BST 14i3**
Connection:	Insulation piercing clamping with pluggable output according to Wieland codierung BST
Clamping screws:	Tightening torque: 1.0 Nm
Rated voltage:	50 V
Rated current:	3 A
Number of poles:	2 pole (+, –)
Regulations:	KNX manual
Approval:	as per KNX manual
Connection cable for supply:	Ø 3 – 8 mm
Materials:	Insulation: thermoplastic PE compound, halogen-free Cover: Polycarbonate, transparent Contact parts: Brass, surface-plated Tin bronze, surface-plated
Continuous temperature:	70 °C, insulation 100 °C
Fire load:	Flat cable adapter BST 14i 0.12 kWh
Coding:	mechanical coding BST 14i, black to green
General:	**Use connectors only in connection with a SELV or PELV voltage supply!** The voltage (supply) is fed to the flat cable with a screwable flat cable adapter. The output boxes can be adapted using insulation piercing screw technology. The outputs are pluggable with ***gesis*** connector systems.
Note:	Functional safety can only be guaranteed, if the original cable is used. The 2 pole flat cable with screen is not designed for use with dimming applications.

Flat cable, PVC

Number x cross section:	2 x 1.5 mm²
Outer sheath:	PVC
Sheath color:	dark gray
Weight:	90 g/m
Dimensions (W x H):	11 x 6 mm
Fire load:	0.48 kWh/m
Fire behavior:	Self-extinguishing according to IEC 60332.1
Bending radius:	min. 4 x D (with fixed installation according to DIN VDE 0298-3)

Structure:

Copper wire:	tin-plated, according to CENELEC HD 383 S2 Class 5
Wire insulation:	PE according to DIN VDE 0207 Part 2, 2YI2
Wire colors:	beige
Screen:	Multiple aluminum strip screening, galvanically insulated

Technical data:

Cross section:	1.5 mm²
Rated voltage:	300/300 V
Rated current:	3 A
DC resistance:	13.7 Ω/km
Capacitance:	70 pF/m
Attenuation at 1 MHz:	nom. 1.2 dB/100 m
Wave resistance at 1 MHz:	nom. 75 Ω

Flat cable, halogen-free

Number x cross section:	2 x 1.5 mm²
Outer sheath:	Thermoplastic PE compound, halogen-free
Sheath color:	dark gray
Weight:	86 g/m
Dimensions (W x H):	11 x 6 mm
Fire load:	0.44 kWh/m
Fire behavior:	Self-extinguishing according to IEC 60332.1 Low smoke emission according to IEC 61034-1/2
Bending radius:	min. 4 x D (with fixed installation according to DIN VDE 0298-3)

Structure:

Copper wire:	tin-plated, according to CENELEC HD 383 S2 Class 5
Wire insulation:	PE according to DIN VDE 0207 Part 2, 2YI2
Wire colors:	beige
Screen:	Multiple aluminum strip screening, galvanically insulated

Technical data:

Cross section:	1.5 mm²
Rated voltage:	300/300 V
Rated current:	3 A
DC resistance:	13.7 Ω/km
Capacitance:	70 pF/m
Attenuation at 1 MHz:	nom. 1.2 dB/100 m
Wave resistance at 1 MHz:	nom. 75 Ω

Technical data
Flat cable system 5 pole, 2.5 mm²

Components:	**Supply adapter for round cable** **Flat cable adapter GST 18i3** **Flat cable adapter GST 18i5**
Connection:	Insulation piercing clamping with pluggable output according to Wieland codierung GST 18
Clamping screws:	Tightening torque: 0.8 Nm
Rated voltage:	250 V/400 V
Rated current:	16 A
Number of poles:	3/5 pole
Regulations:	IEC 61535 IEC 998-2-3, DIN EN 60998-2-3/VDE 0613-2-3
Approval:	VDE
Protection class:	IP 20, DIN VDE 0470 Part 1/11.92
Connection cable for supply:	Ø 5 – 13 mm
Materials:	Insulation: thermoplastic PE compound, halogen-free Cover: Polycarbonate, transparent Contact parts: Brass, surface-plated Tin bronze, surface-plated
Continuous temperature:	70 °C, insulation 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) is fed to the flat cable with a screwable flat cable adapter. The output boxes can be adapted using insulation piercing screw technology. The outputs are pluggable with ***gesis*** connector systems. The connectors have to be locked together with the adapter. Use the according GST accessories for this purpose. Please note the installation instructions in catalogue 0600.1
Note:	Functional safety can only be guaranteed, if the original cable is used.

Flat cable, PVC

Number x cross section:	5 x 2.5 mm²
Outer sheath:	PVC according to CENELEC HD 21.1 S2, TM2
Sheath color:	Light green RAL 6027
Weight:	270 g/m
Dimensions (W x H):	24 x 6 mm
Fire load:	0.778 kWh/m
Fire behavior:	Self-extinguishing according to IEC 60332.1
Bending radius:	min. 100 mm (with fixed installation according to DIN VDE 0298-3)

Structure:

Copper wire:	uncoated, fine-stranded according to CENELEC HD 383 S2 Class 6
Wire insulation:	PVC according to CENELEC HD 21.1 S2, TI2
Wire colors*:	

Technical data:

Cross section:	2.5 mm²
Testing voltage:	4 kV
Rated voltage:	0.6 / 1 kV
Testing current:	according to IEC 60364-5-523
DC resistance:	7.98 Ω/km

Flat cable, halogen-free

Number x cross section:	5 x 2.5 mm²
Outer sheath:	Thermoplastic PE compound, halogen-free and no corrosive gases according to DIN VDE 0472 Part 813
Sheath color:	Light green RAL 6027
Weight:	260 g/m
Dimensions (W x H):	24 x 6 mm
Fire load:	0.671 kWh/m
Fire behavior:	Self-extinguishing according to IEC 60332.1. Low smoke emission according to IEC 61034-1/2
Bending radius:	min. 100 mm (with fixed installation according to DIN VDE 0298-3)

Structure:

Copper wire:	uncoated, fine-stranded according to CENELEC HD 383 S2 Class 6
Wire insulation:	cross-linked, halogen-free and flame-retardant PE
Wire colors*:	

Technical data:

Cross section:	2.5 mm²
Testing voltage:	4 kV
Rated voltage:	0.6 / 1 kV
Testing current:	according to IEC 60364-5-523
DC resistance:	7.98 Ω/km

* The wire colors have been adjusted to the new European standard HD 208 S2.
Assignment according to international recommendations.

Technical data
Flat cable system 5 pole, 10 mm²

Components:	**Supply adapter for round cables 10 mm²** **Output adapter for round cables 2.5 – 4 mm²**
Connection:	Insulation piercing clamp
Clamping screws:	Tightening torque: 0.8 Nm
Rated voltage:	250 V/400 V
Rated current:	50 A
Number of poles:	3/5 pole
Conductor structure:	77 x 0.40 (n x mm)
Sheath color:	Light green RAL 6027
Regulations:	IEC 998-2-3, DIN EN 60998-2-3/VDE 0613-2-3
Approval:	PVC: VDE halogen-free: VDE, SEV
Protection class:	IP 20, DIN VDE 0470 Part 1/11.92
Connection cable for supply:	Ø 5 – 13 mm
Materials:	Insulation: PVC or PE Cover: Polycarbonate, transparent Contact parts: Cu uncoated, fine-stranded according to DIN VDE 0295 Class 5 CENELEC HD 383 S2 Class 5 and IEC 60228 Class 5
Temperature range:	when stationary PVC: -15 °C up to +70 °C when stationary halogen-free: +15 °C up to +70 °C
Fire load:	Infeed for mains ~ 0.45 kWh Output for mains 0.62 kWh
General:	The voltage (supply) is fed to the flat cable with a screwable flat cable adapter. The output boxes can be adapted using insulation piercing screw technology.
Properties halogen-free:	– Halogen-free according to DIN EN 50267-2-2 and DIN VDE 0482 part 267-2-2 (was CENELEC HD 602 and DIN VDE 0472 part 813), IEC 60754-2 – Low fire propagation according to IEC 60332-3 cat. C, CENELEC HD 405.3 – Minimal smoke development according to EN 50268, DIN VDE 0482 part 268, IEC 61034 – Self-extinguishing according to DIN EN 50265-2-1, VDE 0482 part 265-2-1 (was CENELEC HD 405.1 and DIN VDE 0472 part 804 B), IEC 60332-1
Note:	Functional safety can only be guaranteed, if the original cable is used.

Flat cable, PVC

Number x cross section:	5 x 10 mm²	
Outer sheath:	Insulation:	PVC, according to CENELEC HD 21.1 S4, TI2
	Sheath:	PVC, according to CENELEC HD 21.1 S4, TM2
Weight:	837 kg/km	
Dimensions (W x H):	38.5 x 10.0 mm	
Fire load:	2.138 kWh/m	
Fire behavior:	Self-extinguishing according to IEC 60332-1, DIN EN 50265-2-1 (DIN VDE 0482 Part 265-2-1) (was CENELEC HD 405.1)	
Bending radius:	min. 100 mm (with fixed installation according to DIN VDE 0298-3)	

Structure:

Copper wire:	uncoated, fine-stranded according to CENELEC HD 383 S2 Class 6
Wire insulation:	PVC according to CENELEC HD 21.1 S2, TI2
Wire colors*:	brown, blue, green-yellow, black, gray

Technical data:

Cross section:	10 mm²
Testing voltage:	4 kV
Rated voltage:	0.6 / 1 kV
Printing:	5 G 10 MM², 1KV, VDE REG-NR. 9475

Flat cable, halogen-free

Number x cross section:	5 x 10 mm²	
Outer sheath:	Insulation:	Cross-linked, halogen-free, flame-retardant PE according to DIN VDE 0207 part 22 “2XI1” and following IEC 60502-1 “XLPE”
	Sheath:	Thermoplastic and halogen-free compound according to DIN VDE 250 Part 214 „HM2“
Weight:	844 kg/km	
Dimensions (W x H):	38.5 x 10.0 mm	
Fire load:	1.835 kWh/m	
Fire behavior:	Self-extinguishing according to IEC 60332.1. Low smoke emission according to IEC 61034-1/2	
Bending radius:	min. 100 mm (with fixed installation according to DIN VDE 0298-3)	

Structure:

Copper wire:	Cu uncoated, fine-stranded according to DIN VDE 0295 Class 5 CENELEC HD 383 S2 Class 5 and IEC 60228 Class 5
Wire insulation:	cross-linked, halogen-free and flame-retardant PE
Wire colors*:	brown, blue, green-yellow, black, gray

Technical data:

Cross section:	10 mm²
Testing voltage:	4 kV
Rated voltage:	0.6 / 1 kV
Printing:	5 G 10 MM², FR/LSOH, 1KV, VDE REG-NR. 9480

* The wire colors have been adjusted to the new European standard HD 208 S2. Assignment according to international recommendations.

Technical data
Flat cable system 5 pole, 16 mm²

Components:	**Supply adapter for round cables 5 x 16 mm²** **Output adapter for round cables 5 x 6 mm²** **Flat cable adapter inkl. line circuit breaker with GST18 output**
Connection:	Insulation piercing clamping with pluggable output according to Wieland codierung GST
Clamping screws:	Tightening torque: 0.8 Nm
Rated voltage:	250 V/400 V
Rated current:	63 A
Number of poles:	3/5 pole
Conductor structure:	126 x 0.40 (n x mm)
Sheath color:	Light gray
Regulations:	IEC 998-2-3, DIN EN 60998-2-3/VDE 0613-2-3
Approval:	PVC: VDE halogen-free: VDE, SEV
Protection class:	IP 65
Connection cable for supply:	Ø 16 – 28 mm
Materials:	Insulation: PVC or PE Contact parts: Cu uncoated, fine-stranded according to DIN VDE 0295 Class 5 CENELEC HD 383 S2 Class 5 and IEC 60228 Class 5
Temperature range:	when stationary PVC: +15 °C up to +70 °C when stationary halogen-free: –15 °C up to +90 °C
Fire load:	Infeed for mains ~ 3.30 kWh Output for mains ~ 3.30 kWh
Adapter incl. LS switch:	Adaption with insulation piercing clamp technology. 4 fused outputs GST18, code 1, black
General:	The input and output boxes can be adapted using insulation piercing screw technology. The adapter outputs can be plugged to a line circuit breaker with ***gesis*** connector system GST18. The connectors have to be locked together with the adapter. Use the according GST accessories for this purpose.
Properties PVC:	Especially resistant to oils and acids – ASTM oil 2 "CAL-2" = good – Hydraulic oil "Aeroshell No. 41" = very good – Acid resistance = good to very good
Properties PE:	– halogen-free according to DIN EN 50267-2-2 and DIN VDE 0482 part 267-2-2 (was CENELEC HD 602 and DIN VDE 0472 part 813), IEC 60754-2 – Low fire propagation according to IEC 60332-3 cat. C, CENELEC HD 405.3 – Minimal smoke development according to EN 50268, DIN VDE 0482 part 268, IEC 61034 – Self-extinguishing according to DIN EN 50265-2-1, VDE 0482 part 265-2-1 (was CENELEC HD 405.1 and DIN VDE 0472 part 804 B), IEC 60332-1
Note:	Functional safety can only be guaranteed, if the original cable is used.

Flat cable, PVC

Number x cross section:	5 x 16 mm²	
Outer sheath:	Insulation:	PVC, "TI3" according to CENELEC HD 21.1 S4
	Sheath:	PVC, "DMV6" according to DIN VDE 0276-603 (VDE 0276 part 603): 2000-5 contains CENELEC HD 603 S1 + A1, oil resistance as "TM5" according to CENELEC HD 21.1 S4
Weight:	1255 kg/km	
Dimensions (W x H):	48.6 x 11.3 mm	
Fire load:	2.88 kWh/m	
Fire behavior:	Self-extinguishing according to IEC 60332-1, DIN EN 50265-2-1 (DIN VDE 0482 Part 265-2-1) (was CENELEC HD 405.1)	
Bending radius:	min. 100 mm (with fixed installation according to DIN VDE 0298-3)	

Structure:

Copper wire:	uncoated, fine-stranded according to CENELEC HD 383 S2 Class 6
Wire insulation:	PVC according to CENELEC HD 21.1 S2, TI2
Wire colors*:	brown, blue, green-yellow, black, gray

Technical data:

Cross section:	16 mm²
Testing voltage:	4 kV
Rated voltage:	0.6 / 1 kV
Printing:	5 G 16 MM², 1KV, VDE REG-NR. 9475

Flat cable, halogen-free

Number x cross section:	5 x 16 mm²	
Outer sheath:	Insulation:	Cross-linked, halogen-free, flame-retardant PE according to DIN VDE 0207 part 22 "2XI1" and following IEC 60502-1 "XLPE"
	Sheath:	Thermoplastic and halogen-free compound according to DIN VDE 250 Part 214 "HM2"
Weight:	1266kg/km	
Dimensions (W x H):	48.6 x 11.3 mm	
Fire load:	2.48 kWh/m	
Fire behavior:	Self-extinguishing according to IEC 60332.1. Low smoke emission according to IEC 61034-1/2	
Bending radius:	min. 100 mm (with fixed installation according to DIN VDE 0298-3)	

Structure:

Copper wire:	Cu uncoated, fine-stranded according to DIN VDE 0295 Class 5 CENELEC HD 383 S2 Class 5 and IEC 60228 Class 5
Wire insulation:	cross-linked, halogen-free and flame-retardant PE
Wire colors*:	brown, blue, green-yellow, black, gray

Technical data:

Cross section:	16 mm²
Testing voltage:	4 kV
Rated voltage:	0.6 / 1 kV
Printing:	5 G 16 MM², FR/LSOH, 1KV, VDE REG-NR. 9480

* The wire colors have been adjusted to the new European standard HD 208 S2. Assignment according to international recommendations.

Technical data
Flat cable system 5 pole + 2 pole

Components:

	Mains	**Bus**
	Supply adapter for round cables 5 x 2.5 mm² **Flat cable adapter GST 18i5** **Flat cable adapter GST 18i3**	**Supply adapter for round cables 5 x 1.5 mm²** **Flat cable adapter BST 14i2** **Flat cable adapter BST 14i3**
Connection:	Insulation piercing clamping with pluggable output according to Wieland codierung GST, BST	
Clamping 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:	IEC 61535 IEC 998-2-3(insulation piercing clamp)	KNX manual
Approval:	VDE	as per KNX manual
Protection class:	IP 20, DIN VDE 0470 Part 1/11.92	
Connection cable for supply:	Ø 5 – 13 mm	Ø 3 – 8 mm
Materials:	Insulation: thermoplastic PE compound, halogen-free Cover: Polycarbonate, transparent Contact parts: Brass, surface-plated Tin bronze, surface-plated	
Continuous temperature:	70 °C, insulation 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, Code 1, black BST 14i2, green BST 14i3, black	

General:

Use connectors (bus signal) only in connection with a SELV or PELV voltage supply! When using an ELV voltage supply for BST14, it has to be galvanically insulated (e.g. via transformer) and feature a base insulation.

The voltage (supply) is fed to the flat cable with a screwable flat cable adapter.
The output boxes can be adapted using insulation piercing screw technology.
The outputs are pluggable with ***gesis*** connector systems.
The connectors have to be locked together with the adapter.
Use the according GST accessories for this purpose.

Note:

Functional safety can only be guaranteed, if the original cable is used.
The 5+2 pole flat cable is not designed for use with dimming applications.

* The wire colors have been adjusted to the new European standard HD 208 S2.
  Assignment according to international recommendations.

Flat cable, PVC

	Netz	Bus	
Number x cross section:	5 x 2.5 mm²	2 x 1.5 mm²	
Outer sheath:	PVC acc. to CENELEC HD 21.1 S2, TM2		
Sheath color:	Purple RAL 4005	Capacitance:	70 pF/m
Weight:	350 g/m	Attenuation at 1 MHz:	nom. 1.2 dB/100 m
Dimensions (W x H):	32 x 6 mm	Wave resistance at 1 MHz:	nom. 75 Ω
Fire load:	1.18 kWh/m		
Fire behavior:	Self-extinguishing according to IEC 60332.1		
Bending radius:	min. 100 mm (with fixed installation according to DIN VDE 0298-3)		
Structure:			
Copper wire:	uncoated, fine-stranded according to CENELEC HD 383 S2 Class 6		
Wire insulation:	PVC acc. to CENELEC HD 21.1 S2, TI2	PE according to DIN VDE 0207 part 2 2YI2	
Wire colors*:			
	gray, black, brown, blue, green/yellow	beige	
		Double aluminum strip screening, galvanically insulated	
Technical data:			
Testing voltage:	4 kV		
Rated voltage:	0.6 / 1 kV	300/300 V	
Testing current:	according to IEC 60364-5-523		
DC resistance:	7.98 Ω/km	13.7 Ω/km	

Flat cable, halogen-free

	Netz	Bus	
Number x cross section:	5 x 2.5 mm²	2 x 1.5 mm²	
Outer sheath:	thermoplastic PE compound, halogen-free and no corrosive gases acc. to DIN VDE 0472 Part 813	Capacitance:	70 pF/m
		Attenuation at 1 MHz:	nom. 1.2 dB/100 m
Sheath color:	Purple RAL 4005	Wave resistance at 1 MHz:	nom. 75 Ω
Weight:	340 g/m		
Dimensions (W x H):	32 x 6 mm		
Fire load:	0.99 kWh/m		
Fire behavior:	Self-extinguishing according to IEC 60332.1, low fire propagation according to IEC 60332-3C Low smoke development according to IEC 61034-1/2		
Bending radius:	min. 100 mm (with fixed installation according to DIN VDE 0298-3)		
Structure:			
Copper wire:	uncoated, fine-stranded according to CENELEC HD 383 S2 Class 6		
Wire insulation:	cross-linked, halogen-free and flame-retardant PE	PE according to DIN VDE 0207 part 2 2YI2	
Wire colors*:			
	gray, black, brown, blue, green/yellow	beige	
		Double aluminum strip screening, galvanically insulated	
Technical data:			
Testing voltage:	4 kV		
Rated voltage:	0.6 / 1 kV	300/300 V	
Testing current:	according to IEC 60364-5-523		
DC resistance:	7.98 Ω/km	13.7 Ω/km	

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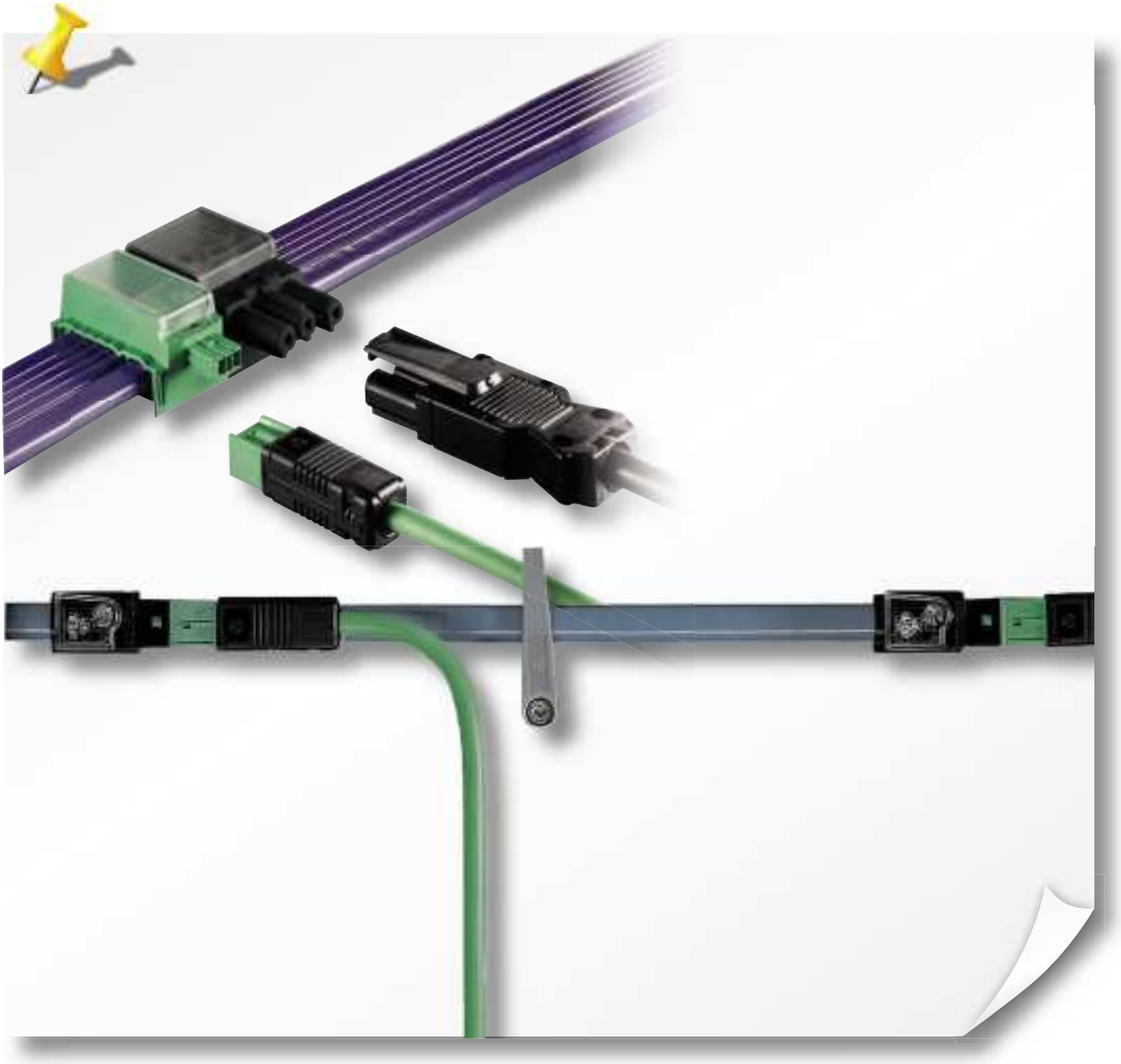

Hotline, advice
Additional information

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  e-mail: safety@wieland-electric.com
- Remote power distribution ***podis*** ®
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- Photovoltaics ***gesis*** SOLAR
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Additional information for pluggable installation:

gesis CON	Part No. 0600.1
gesis IP+	Part No. 0690.1
gesis **Luminaires catalog**	Part No. 0407.1

for remote electronic distribution units:

gesis ELECTRONIC	Part No. 0700.1
gesis RAN	Part No. 0409.1

for solar technology:

gesis SOLAR flyer	Part No. 0411.1
gesis SOLAR catalog	Part No. 0710.1

Information about Wieland products in general:

Wieland Product Overview Part No. 0901.1

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