

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

Flat cable system
5 x 10 mm²

Incoming supply for mains		Flat cable adapter for mains (outgoing unit)		Cable end cap	
<p>5 pole Incoming supply in flat cable, connected end to end via modular terminals N and Earth. Metric screwed joint for round cable M32 for e.g. NYM, H05VV-F 5 x 10mm² cables. Strain relief for Wieland flat cable.</p> <p>Dimensions: 260 x 90 x 70 mm (LxWxH)</p>		<p>5 pole With insulation-piercing connection technology for tapping off the phases, N and Earth. Outgoing unit with spring-loaded technology 5 x 4 mm² for single-core and finely stranded conductors. Strain relief for cables: NYM and H05VV-F 2.5 - 4 mm².</p> <p>Dimensions: 110 x 51 x 48 mm (LxWxH)</p>		<p>Guarantees safety clearances between the individual cores; must be mounted at the start and end of each cable. Sheath strip length: approx. 15 mm</p>	
Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
92.050.8253.0	1	92.050.8353.0	1	05.563.9553.0	20

Cable clip for flat cable		Flat cable 5 x 10 mm ²		Sheath stripping tool	
<p>Colour: light green RAL 6027 Insulating material: PVC</p>		<p>Colour: light green RAL 6027 Insulating material: PVC</p>		<p>For stripping the sheath from the flat cable</p>	
<p>Dimensions: 38.5 x 10.0 mm (WxH)</p> <p>The functional reliability can only be guaranteed if the original cable is used</p>		<p>Colour: light green RAL 6027 with marking FRILSOH Insulating material: Thermoplastic Polyolefine compound</p>		<p>For stripping the sheath from the flat cable</p>	
Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
05.563.9753.0	100	00.702.0306.7	PVC	95.350.0500.0	1
		00.709.0306.7	halogen free on request		

Technical Data 5 x 10 mm²

Environmental and assembly temperature 10°C - 40°C

Flat cable 5 x 10 mm² PVC

Outer sheath PVC, in accordance with CENELEC HD 21.1 S2, TM2 Light green RAL 6027
Weight 845 g/m
Fire load 2.12 kWh
Conductor cross-section 5 x 10 mm²
Fire characteristics Self-extinguishing in accordance with IEC 60332-1

Copper conductor Bare, finely stranded in accordance with DIN VDE 0295 class 5 PVC, in accordance with CENELEC HD 21.1 S2, T12 4 kV
Nominal voltage 690 V
Current-carrying capacity In accordance with IEC 60364-5-523 and SEV NIN 42512.2
DC resistance 1.91 Ohm/km
Bend radius Minimum 100 mm

Core insulation Polyolefine, halogen-free
Colour of cores Light grey
Nominal voltage 450/750 V
Current-carrying capacity In accordance with IEC 60364-5-523 and SEV NIN 42512.2
Minimum 100 mm

Flat cable adapter for mains Weight 156 g
Fire load 0.62 kWh
Fire characteristics UL 94-V2
Test specifications IEC 60998-1/IEC 60998-2-5/IEC 60947-7-1

Plastic components Halogen-free
Metal components Corrosion resistant
Conductor cross-section 5 x 4 mm² via spring-loaded contacts
Slotted screws See instruction leaflet
Nominal voltage 250/400 V
Nominal current 25 A

Incoming supply for mains Housing Galvanised sheet steel
Strain relief, cable entry Strain relief, cable entry
Round cable Screwed cable joint M32, strain relief for flat cable
Via modular terminal WKXN 10QU (10mm)
Connection system Screw
Nominal voltage 250/400 V
Nominal current 50 A

Flat cable clip for flat cable Colour: light green RAL 6027
Insulating material: PVC

Flat cable 5 x 10 mm² Colour: light green RAL 6027
Insulating material: PVC

Sheath stripping tool For stripping the sheath from the flat cable

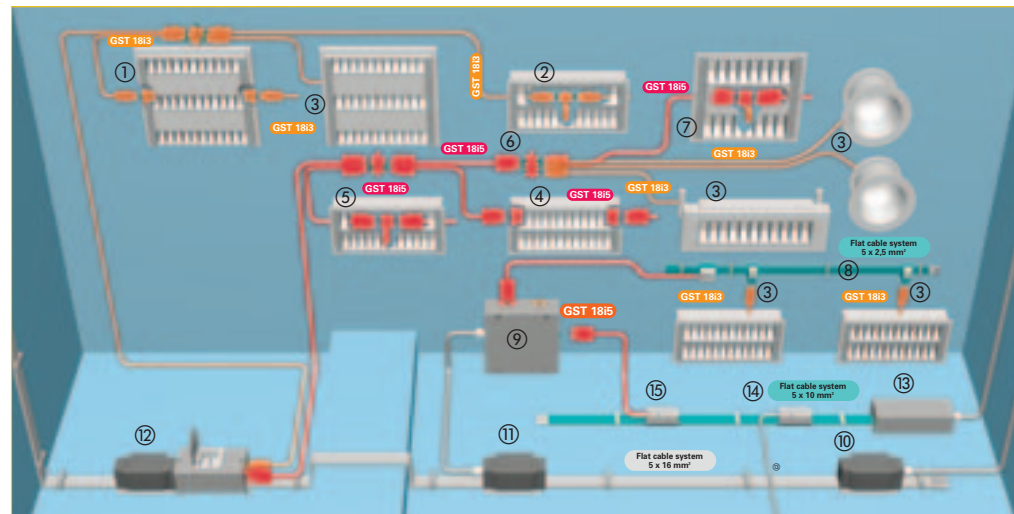
Colour: light green RAL 6027 with marking FRILSOH
Insulating material: Thermoplastic Polyolefine compound

Dimensions: 38.5 x 10.0 mm (WxH)

The functional reliability can only be guaranteed if the original cable is used



Installation example



Luminaire installation gesis CON			gesis RAN	
GST 1813 3 pole mains	GST 1815 5 pole mains	Flat cable system 5 x 2.5 mm ²	gesis RAN	gesis RAN
L, N, E	L1, L2, L3, N, E	L1, L2, L3, N, E	gesis RAN	gesis RAN
① Luminaire with two module locations - supply and routing via cable assemblies - possible to mount luminaires side by side via intermediate coupling	② Luminaire with two module locations - supply and routing via cable assemblies ③ Luminaire with one module location - supply and routing via T-distribution board and cable assemblies (through wiring) ④ Transition from three phase to a.c. wiring system - 50 pole 1-distribution board	⑤ The flexible busbar - 5 pole through wiring with optional tapping off of outer conductors (L1, L2, L3)	⑥ Terminals - size, component set (incl. DIN rail mounted devices), wiring according to pre-selection - plug-in outputs according to application	⑦ Incoming supply in flat cable ⑧ Tapping off of flat cable via adapter with round cable max. 5 x 6 mm ² ⑨ Tapping off of flat cable via adapter with integrated circuit-breakers and connectors

gesis NRG	
Flat cable system 5 x 16 mm ²	Flat cable system 5 x 10 mm ²
⑩ Incoming supply in flat cable ⑪ Tapping off of flat cable via adapter with round cable max. 5 x 6 mm ² ⑫ Tapping off of flat cable via adapter with integrated circuit-breakers and connectors	⑬ Incoming supply in flat cable via adapter connected end to end ⑭ Tapping off of flat cable via adapter with round cable max. 5 x 4 mm ² ⑮ Tapping off of flat cable via adapter with pre-fabricated cables GST 1816, 2.5 mm ²

Technical Data 5 x 16 mm²

Environmental and assembly temperature 10°C - 40°C

Flat cable 5 x 16 mm² PVC

Outer sheath PVC, resistant to oil
Colour of sheath Light grey
Weight 1.3 kg/m
Fire load 2.95 kWh/m
Fire characteristics Self-extinguishing in accordance with IEC 60332-1

Conductor cross-section 5 x 16 mm²
Copper conductor Bare, extra finely stranded in accordance with CENELEC HD 383 S2 class 6
Core insulation PVC in accordance with CENELEC HD 21.1 S3, T13
Colour of cores Black, brown, green-yellow, blue, black
Nominal voltage 450/750 V
Current-carrying capacity In accordance with IEC 60364-5-523 and SEV NIN 42512.2
Minimum 100 mm

Flat cable 5 x 16 mm² halogen-free
Outer sheath Polyolefine, halogen-free
Colour of sheath Light grey
Weight 1.3 kg/m
Fire load 2.5 kWh/m
Fire characteristics No corrosive gasses in accordance with IEC 60754-2, low risk of fire spreading in accordance with IEC 60332-3, low level of smoke development in accordance with IEC 61034

Conductor cross-section 5 x 16 mm²
Copper conductor Bare, extra finely stranded in accordance with CENELEC HD 383 S2 class 6
Core insulation Thermoplastic Polyolefine Compound, halogen-free, flame retardant CENELEC HD22
Black, brown, green-yellow, blue, black
Nominal voltage 450/750 V
Current-carrying capacity In accordance with IEC 60364-5-523 and SEV NIN 42512.2
Minimum 100 mm

Flat cable adapter for mains (outgoing unit) Weight 650 g
Fire load 2.97 kWh
Fire characteristics UL 94-V0
Test specifications IEC 60998-1, IEC 60998-2-1, IEC 60998-2-3 and IEC 60529

Plastic components Halogen-free
Metal components Corrosion-resistant
Slotted screws Working torque 3.7-4.5 Nm, Philips screw No. 2
Terminal screws Working torque 2 Nm, Philips screw No. 2
Wire range Two cables 5 x 16 mm²
Nominal voltage 250/400 V
Nominal current 63 A

Flat cable adapter for mains (outgoing unit) Weight 650 g
Fire load 2.97 kWh
Fire characteristics UL 94-V0
Test specifications IEC 60998-1, IEC 60998-2-1, IEC 60998-2-3 and IEC 60529

Plastic components Halogen-free
Metal components Corrosion-resistant
Slotted screws Working torque 3.7-4.5 Nm, Philips screw No. 2
Terminal screws Working torque 2 Nm, Philips screw No. 2
Wire range Two cables 5 x 16 mm²
Nominal voltage 250/400 V
Nominal current 63 A

Flat cable adapter for mains (outgoing unit) Weight 650 g
Fire load 2.97 kWh
Fire characteristics UL 94-V0
Test specifications IEC 60998-1, IEC 60998-2-1, IEC 60998-2-3 and IEC 60529

Plastic components Halogen-free
Metal components Corrosion-resistant
Slotted screws Working torque 3.7-4.5 Nm, Philips screw No. 2
Terminal screws Working torque 2 Nm, Philips screw No. 2
Wire range Two cables 5 x 16 mm²
Nominal voltage 250/400 V
Nominal current 63 A

Flat cable adapter incl. circuit-breaker Branching box (see branching box for technical data) mounted directly with galvanised, sheet-steel housing. Plug-in outgoing units: 1 x GST 1815 and 3 x GST 1813 (L1, L2, L3)
Miniature circuit-breakers accessible via separate hinged lid.

3D ceiling plan

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

Flat cable system
5 x 16 mm²

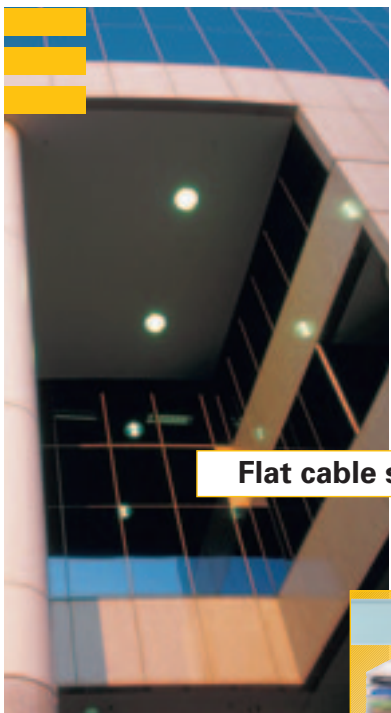
Incoming supply for mains		Flat cable adapter for mains (outgoing unit)		Flat cable adapter incl. circuit breaker IP20		Cable end cap	
<p>5 pole With insulation-piercing connection technology for supplying the phases, N and Earth. For the connection of round cables 5 x 16 mm² using a screw connection. The screwed joint is not included with supply. See "Accessories" for metric screwed joint M40.</p> <p>Dimensions: 200 x 85 x 91 mm (LxWxH)</p>		<p>5 pole With insulation-piercing connection technology for tapping off the phases, N and Earth. 2 outgoing units with screw technology 5 x 6 mm² for single-core and finely stranded conductors. The screwed joint is not included with supply. See "Accessories" for metric screwed joint M25.</p> <p>Dimensions: 200 x 85 x 73 mm (LxWxH)</p>		<p>5 pole With insulation-piercing connection technology for tapping off the phases, N and Earth. Outgoing unit with connector, socket component, GST 18 coding, 1 x 5 pole (GST 1815) 3 x 3 pole (GST 1813 L1 / L2/L3, N, E) Fused with circuit breaker B16.</p> <p>Other modifications available on request Dimensions: 220 x 110 x 110 mm (LxWxH)</p>		<p>Guarantees safety clearances between the individual cores; must be mounted at the start and end of each cable. Sheath strip length: approx. 15 mm</p>	
Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
92.050.8453.0	1	92.050.8553.0	1	60.000.0044.7	1	05.563.9453.0	20

Cable gland for junction boxes		Mounting available for flat cable on request		Flat cable 5 x 16 mm ²		Sheath stripping tool	
<p>Colour: light grey Insulating material: PVC</p>		<p>Colour: light grey Insulating material: PVC</p>		<p>Colour: light grey Insulating material: PVC</p>		<p>For stripping the sheath from the flat cable</p>	
<p>M 40 x 1.5, Clamping range 16 - 28 mm Z5.507.1953.0 10</p>		<p>M 25 x 1.5, Clamping range 7 - 16 mm Z5.507.1953.0 10</p>		<p>M 25 x 1.5, Clamping range 11-18 mm Z5.507.1521.0 10</p>		<p>Dimensions: 48.5 x 11.3 mm (WxH)</p> <p>The functional reliability can only be guaranteed if the original cable is used</p>	
Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty	Part No.	Box Qty
05.507.4153.0	10	00.702.0307.3	PVC	95.350.0600.0	1		
		00.709.0307.3	halogen-free				

Headquarter:
Wieland Electric GmbH
Brennerstraße 10 – 14
D-96052 Bamberg

Sales and Marketing Center:
Wieland Electric GmbH
Benzstraße 9
D-96052 Bamberg

Phone +49 (0) 9 51/93 24-0
Fax +49 (0) 9 51/93 24-446
www.wieland-electric.com
info@wieland-electric.com



gesis®

Flat cable system gesis NRG

The flexible busbar



The flexible busbar

Description

By selecting the **gesis** NRG flat cable system, you have all the benefits of a modern electrical installation. Once the flat cable is drawn in, you can place junctions both rapidly and safely in the precise position they are required – without needing to interrupt the cable. Conversions or extensions in particular can be implemented quickly and economically. The contact to the conductors is thus established by screwing in special slotted screws which penetrate the cable sheath.

Components

- ❑ Flat cable 5x10 mm², PVC or FR/LSOH light green RAL 6027.
- ❑ Junction box for incoming supply with round cable 5x10 mm² at the end of the cable.
- ❑ Branching box for tapping off of the flat cable. Integrated spring-loaded contacts for connection of one round cable 5x6 mm².
- ❑ Cable sealing end for establishing shock protection and maintaining the required creepage distances and clearances.
- ❑ Cable fastening clip for fixing the flat cable.
- ❑ Sheath stripping tool for removing the sheath from the flat cable.

The flat cable system enables an installation to be subdivided into individual areas. This leads to a flexible installation with a clear layout which is easy to maintain. In contrast to rigid busbar systems, the flat cable can be conveniently laid in cable trays. The mechanical installation work required is negligible.

The flexible busbar

Description

By selecting the **gesis** NRG flat cable system, you have all the benefits of a modern electrical installation. Once the flat cable is drawn in, you can place junctions both rapidly and safely in the precise position they are required – without needing to interrupt the cable. Conversions or extensions in particular can be implemented quickly and economically. The contact to the conductors is thus established by screwing in special slotted screws which penetrate the cable sheath.

Components

- ❑ Flat cable 5x16 mm², PVC or FR/LSOH light grey.
- ❑ Junction box for incoming supply with round cable 5x16 mm².
- ❑ Branching box for pick off of the flat cable. Integrated screw contacts for connection of two round cable 5x6 mm².
- ❑ Branching box for tapping off of the flat cable with 3 phase, miniature circuit breaker B16.
- ❑ Cable sealing end for establishing shock protection and maintaining required creepage distances and clearances.
- ❑ Sheath stripping tool for removing the sheath from the flat cable.
- ❑ Various cable glands.

The flat cable system enables an installation to be subdivided into individual areas. This leads to a flexible installation with a clear layout which is easy to maintain. In contrast to rigid busbar systems, the flat cable can be conveniently laid in cable trays. The mechanical installation work required is negligible.



- 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

Product Range