

Connectors for KNX/EIB Bus Coupler Units 243 Series



- Compact, 4-conductor KNX connector with PUSH WIRE® connection
- Simple push-in termination for solid conductors
- 4-conductor entries allow devices to be replaced without disrupting the KNX bus connection

Technical data:

	IEC/EN 60664-1				
Rating per	III	III	II		
Overvoltage category	3	2	2		
Pollution degree	250 V	320 V	630 V		
Rated voltage	4 kV	4 kV	4 kV		
Rated surge voltage	6 A	6 A	6 A		
Nominal current	UL/CSA				
Approvals per	B	C	D		
Use group UL 1059	-	-	-		
Rated voltage	-	-	-		
Nominal current UL	-	-	-		
Nominal current CSA	-	-	-		

Conductor data:

Connection technology	PUSH WIRE®
Conductor size: solid	Ø 4 x 0.6 – 0.8 mm or Ø 4 x 1.0 mm
AWG	4 x 22 – 20 "sol." or 4 x 18 "sol."
Strip length	5 – 6 mm / 0.20 – 0.24 in

Material data:

Material group	I
Insulating material	Nylon 6.6 (PA 6.6)
Flammability rating per UL 94	V0
Lower/Upper temperature limit	-60°C / +105°C
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated

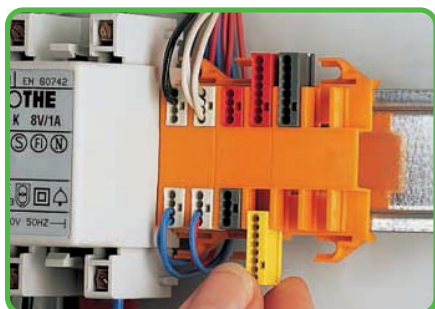
243 Series accessories:

Page:

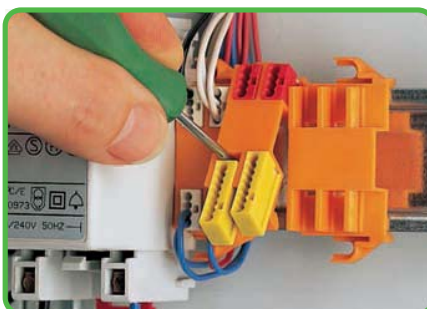
Mounting Carrier for MICRO PUSH WIRE® Connectors for DIN 35 Rail or Screw Mount, 243 Series

12

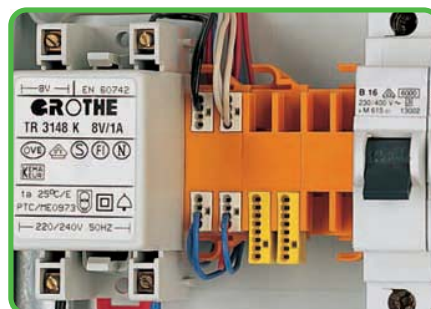
503



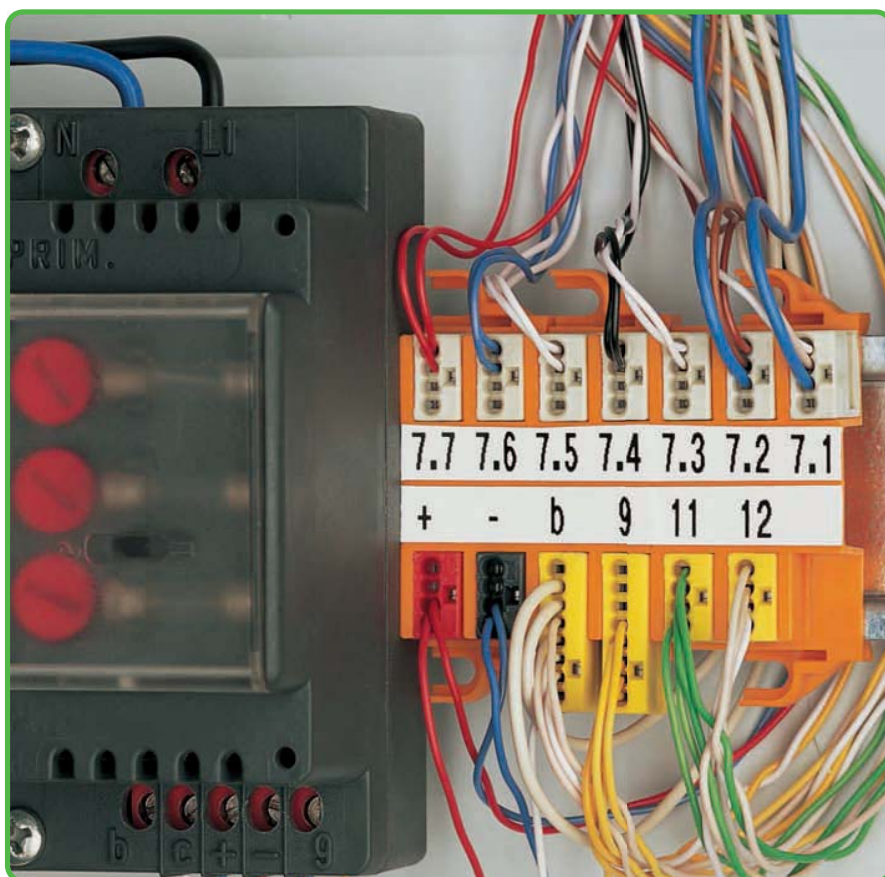
Inserting a MICRO PUSH WIRE® connector for junction boxes into the carrier.



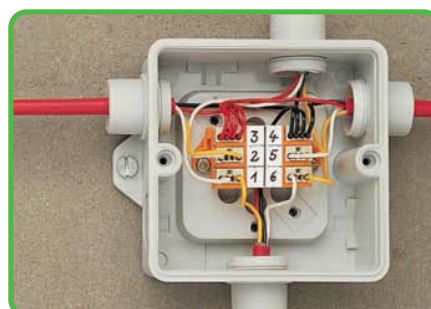
Removing a MICRO PUSH WIRE® connector from the carrier.



Example of residential door bell application – mounted on DIN 35 rail



Example of residential (home) communication application



Typical application in a terminal box for burglar alarm – screw mount

Quick fix mounting

Realizing MICRO PUSH WIRE® connectors are ideal for DIN-rail mount panel applications, electrical installers have requested the ability to use them in distribution panels. MICRO PUSH WIRE® connectors provide easy connections for smaller conductors used in low-current applications. They are well-suited to terminating telephone-style conductors for connecting alarms, bells, door sensors, communication systems, etc.

The mounting carrier WAGO's Professional Solution. It is available with mounting slots for 4 or 6 connectors.

Depending on the number of conductors, each mounting slot can accommodate a 4- or 8-conductor MICRO connector. The connectors simply snap into the mounting slots and are removable, allowing conductors to be exchanged during changeover.

The carrier is designed for easy mounting directly to the DIN 35 rail, or to a panel, via the screw-mount flanges provided. A large marking surface is provided for clear circuit identification. This may be directly marked with a felt-tip pen, or via pre-printed self-adhesive marker strips.

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MICRO PUSH WIRE® Connectors for Junction Boxes Ø 0.8 mm 243 Series

PUSH WIRE®

0.6 - 0.8 mm Ø "s" ① AWG 22 - 20 "s"
100 V/1.5 kV/2 ② 150 V, 7 A^{III}
I_N 6 A 150 V, 7 A^{II}

5 - 6 mm / 0.22 in ③

0.6 - 0.8 mm Ø "s" ① AWG 22 - 20 "s"
100 V/1.5 kV/2 ② 150 V, 7 A^{III}
I_N 6 A 150 V, 7 A^{II}

5 - 6 mm / 0.22 in ③



① When using conductors with the same diameter, 0.5 mm/AWG 24 or 1 mm/AWG 18 diameters are also possible.

② 100 V = rated voltage
1.5 kV = rated surge voltage
2 = pollution degree
(also see Section 14)

③ Strip length, see packaging or instructions.

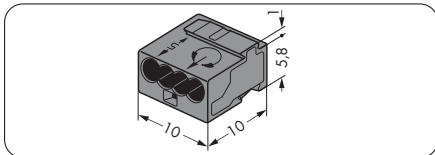
Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
MICRO PUSH WIRE® connector for junction boxes, 4-conductor connector			MICRO PUSH WIRE® connector for junction boxes, 8-conductor connector		
dark gray	243-204	1000 (10x100)	dark gray	243-208	500 (10x50)
red	243-804	1000 (10x100)	red	243-808	500 (10x50)

The 243 Series of WAGO PUSH WIRE® connectors can be used in both communication and alarm systems according to the VdS (German Association of Property Insurers) guidelines.

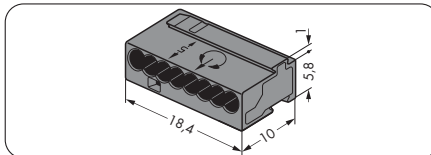
No general approval is given to push-wire connectors by the VdS association. The connectors must be tested together with the different parts of the system.

The requirements for connectors are specified in the VdS guidelines for junction boxes (VdS 2116) in section 8.7: "The junction box connectors must be designed to guarantee a reliable and stable connection".

The verification of the fulfillment of these requirements is documented in the VDE test report No. 2574-1440-4031 for the 243 Series of insulated PUSH WIRE® connectors.



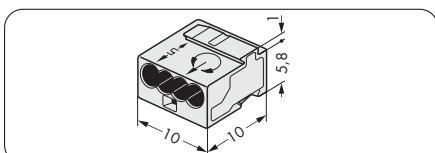
Dimensions in mm



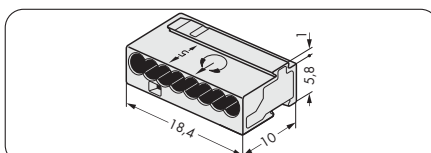
Dimensions in mm




Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
MICRO PUSH WIRE® connector for junction boxes, 4-conductor connector			MICRO PUSH WIRE® connector for junction boxes, 8-conductor connector		
light gray	243-304	1000 (10x100)	light gray	243-308	500 (10x50)
yellow	243-504	1000 (10x100)	yellow	243-508	500 (10x50)



Dimensions in mm



Dimensions in mm

<p>0.4 - 0.5 mm Ø "s" AWG 26 - 24 "s"</p> <p>100 V/1.5 kV/2 ①</p> <p>I_N 6 A</p> <p> 5 - 6 mm / 0.22 in ②</p>	<p>Mounting carrier</p>
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- ② Strip length, see packaging or instructions.

[illegible]

Quick fix mounting

Realizing MICRO PUSH WIRE® connectors are ideal for DIN-rail mount panel applications, electrical installers have requested the ability to use them in distribution panels. MICRO PUSH WIRE® connectors provide easy connections for smaller conductors used in low-current applications. They are well-suited to terminating telephone-style conductors for connecting alarms, bells, door sensors, communication systems, etc.

The mounting carrier WAGO's Professional Solution. It is available with mounting slots for 4 or 6 connectors.

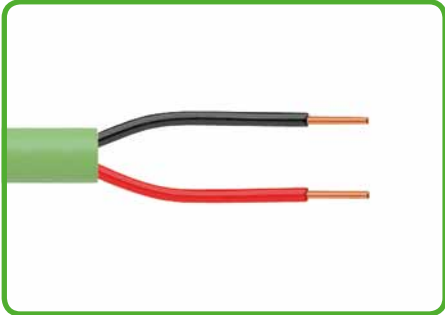
Depending on the number of conductors, each mounting slot can accommodate a 4- or 8-conductor MICRO connector. The connectors simply snap into the mounting slots and are removable, allowing conductors to be exchanged during changeover.

The carrier is designed for easy mounting directly to the DIN 35 rail, or to a panel, via the screw-mount flanges provided. A large marking surface is provided for clear circuit identification. This may be directly marked with a felt-tip pen, or via pre-printed self-adhesive marker strips.

7 Handling WINSTA® KNX, 893 Series

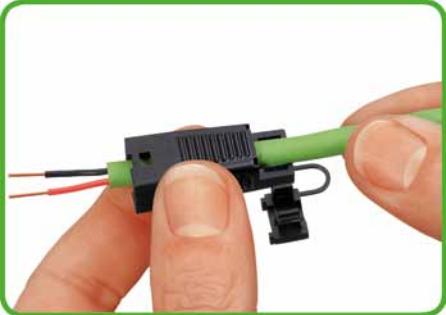
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Preparation

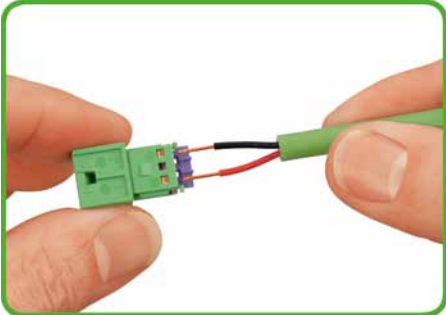


- 1. Strip length, outer insulation: = 23 mm
- 2. Strip length = 9 mm

Conductor termination

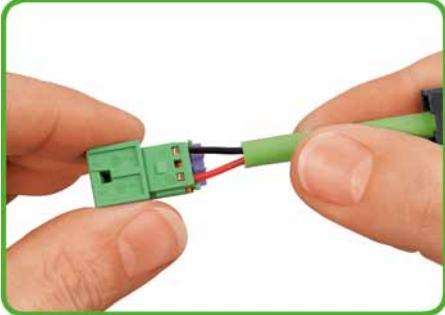


Prior to termination, pull the strain relief housing over the cable.

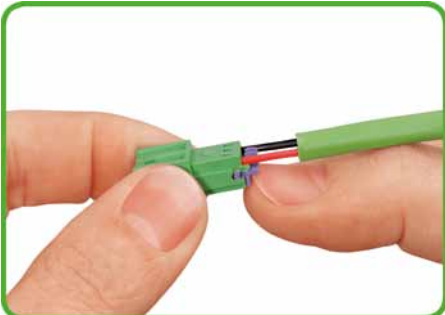


Insert stripped conductor directly into the conductor entry .

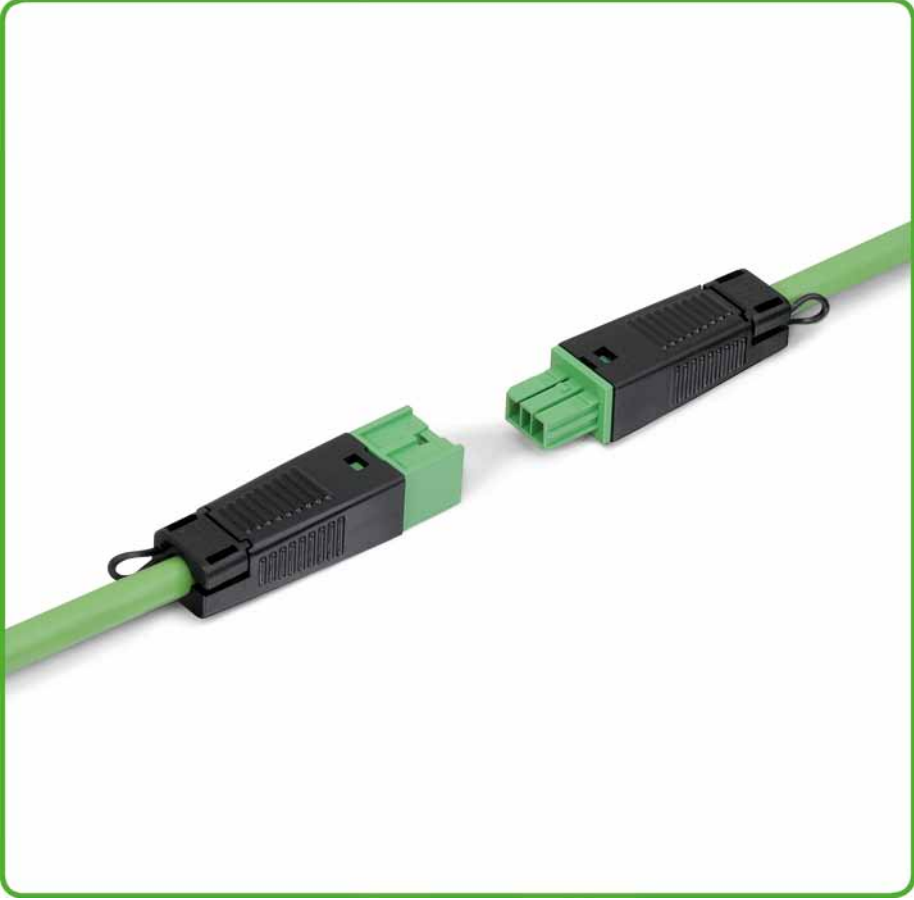
Conductor termination



Push conductors until they hit backstop.



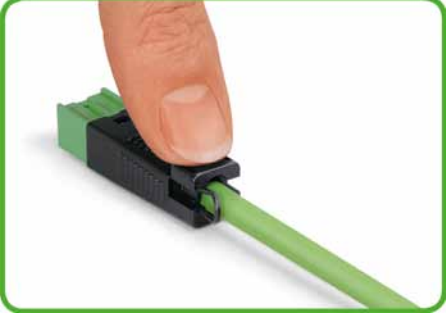
To disconnect, open clamping unit via purple actuator and pull out conductor.



Strain relief assembly





Snap wired connector into strain relief housing.



Press strain relief firmly on the cable.



Pre-assembled KNX connector.

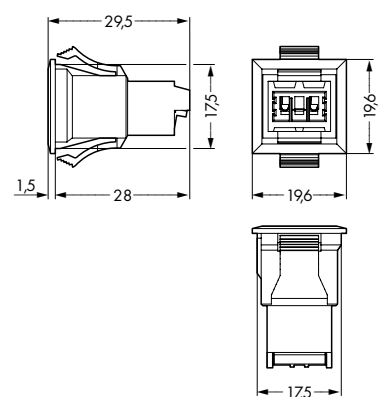
<p>Cutout dimensions</p> <p>Plate thickness: 0.5 – 2 mm</p> <p>Cutout tolerance: + 0.1 mm</p>	<p>0.8 mm Ø 50 V/0.8 kV/3 I_N 3 A</p> <p> 9 mm / 0.35 in</p> <p>① Approvals</p>	<p>0.8 mm Ø 50 V/0.8 kV/3 I_N 3 A</p> <p> 9 mm / 0.35 in</p> <p>① Approvals</p>
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1 For "International Certification Organizations" and "Approvals – User Guide," see pages 240 to 243.

- green Coding E (1+ 2-)
 ● light gray Coding F (1+ 2-)

For coding information, see pages 224 to 226.
Fire load data available upon request.



	<div>PVC</div> <div>UNITRONIC BUS EIB 2x2x0.8</div> <div>50 V/0.8 kV/3 I_N 3 A</div> <div>① Approvals</div>
Interconnecting cable, socket – plug	<div>Length Item No.</div> <div><div><div></div><div>Coding E, for KNX applications</div><div>PVC</div></div><div>1 m 894-8992/033-106</div><div>3 m 894-8992/033-306</div><div>5 m 894-8992/033-506</div></div>
Connecting cable, socket – free end	<div>Length Item No.</div> <div><div><div></div><div>Coding E, for KNX applications</div><div>PVC</div></div><div>1 m 894-8992/133-106</div><div>3 m 894-8992/133-306</div><div>5 m 894-8992/133-506</div></div>
Connecting cable, plug – free end	<div>Length Item No.</div> <div><div><div></div><div>Coding E, for KNX applications</div><div>PVC</div></div><div>1 m 894-8992/233-106</div><div>3 m 894-8992/233-306</div><div>5 m 894-8992/233-506</div></div>
Info	
<div><div>① For “International Certification Organizations” and “Approvals – User Guide,” see pages 240 to 243.</div><div>For halogen-free cables, please contact factory.</div><div><div>② Cable core assignment, coding F:</div><div>yellow 1+</div><div>white 2-</div></div><div><div><div></div><div>green Coding E (1+ 2-)</div><div>light gray Coding F (1+ 2-)</div></div></div><div>For coding information, see pages 224 to 226.</div><div>Fire load data available upon request.</div></div>	

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Note:

- Installation connectors are designed for connection and disconnection while not under load.
- There is no hazard-inducing interchangeability with systems based on IEC 60309, IEC 60320, IEC 60906 and with national connector and socket systems.
- Compliance with the standards (IEC 61535) does not guarantee hazard-avoiding, non-interchangeability with installation connector systems from various manufacturers.
- Installation connector systems are not a substitute for residential connector/socket systems.
- WINSTA® IDC connectors are not intended for installation in open or easily accessible areas.



772 Series

IDC Modules for Flat Cables

5 x 2.5 mm² / 5 x 4 mm² / 5 x 2.5 mm² + 2 x 1.5 mm²

- Supply Module
- Tap-Off Modules, WINSTA® MIDI Connectors

198

199



893 Series

IDC Modules for Flat Cables

5 x 2.5 mm² + 2 x 1.5 mm² / 2 x 1.5 mm²

- Supply Module (KNX and Special Coding)
- Tap-Off Modules (KNX and Special Coding)

202, 206

203, 207



896 Series

IDC Modules for 3 x 2.5 mm² Flat Cable

- Supply and Tap-Off Modules

210, 211



895 Series

POWERBLOCK 10 for 5 x 10 mm² Flat Cable

- Supply and Tap-Off Modules

212, 213



895 Series

POWERBLOCK 16 for 5 x 16 mm² Flat Cable

- Supply and Tap-Off Modules

214, 215



897 Series

Flat Cables 2 x 1.5 mm²

208

Flat Cables 5 x 2.5 mm²

200

Flat Cables 5 x 4 mm²

201

Flat Cables 5 x 2.5 mm² + 5 x 1.5 mm²

201, 204

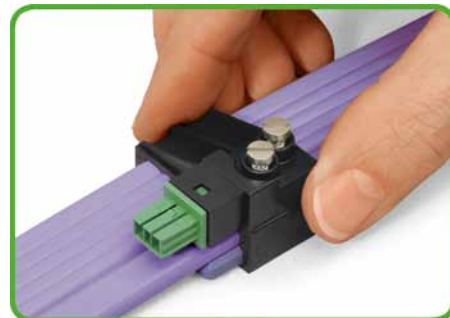
893 Series Tap-Off Modules, 2-Pole, for 7-Core Flat Cable

50 V/0.8 kV/3
I_N 3 A

① Approvals

50 V/0.8 kV/3
I_N 3 A

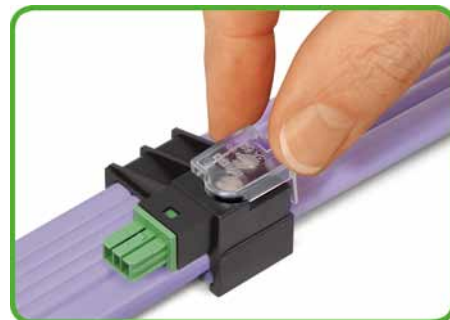
① Approvals



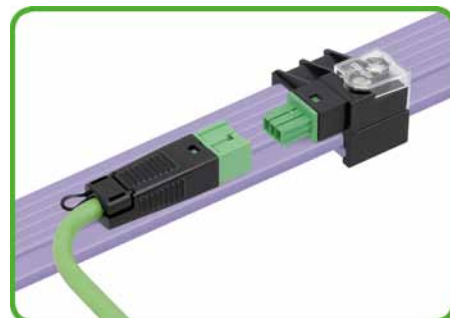
The IDC module can only be mounted if the two codings correspond to each other.
Should the IDC module jam during mounting, turn the module by 180° and remount it, flush with the base.



Contact is made with the flat cable by tightening the screws.
Observe 1 Nm of tightening torque!



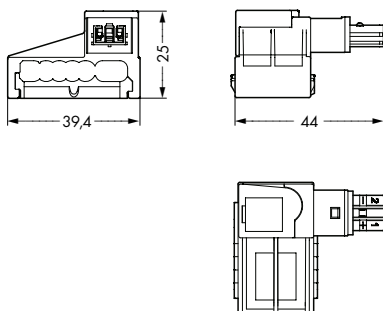
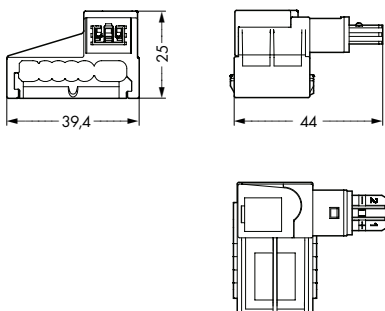
Snapping on transparent protective cover.



Connecting a cable assembly.

Color	Item No.	Pack. Unit	Color	Item No.	Pack. Unit
Tap-off module, 2-pole, for connectors and cable assemblies, coding E, KNX, 1 Nm tightening torque			Tap-off module, 2-pole, for connectors and cable assemblies, coding F, 1 Nm tightening torque		
● green	893-262	25	○ light gray	893-269	25
For flat cables, see page 204			For flat cables, see page 204		

Dimensions



4 x 0.6 – 0.8 mm Ø "sol."
50 V/0.8 kV/3
I_N 3 A

1 Approvals



Contact is made with the flat cable by tightening the screws.
Observe 1 Nm of tightening torque!

[illegible]

