



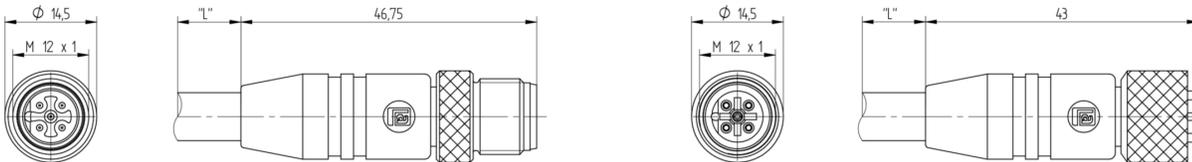
Product: [0975 254 101](#)

PROFIBUS Data Double-Ended Cordset: Male straight B-coded black M12 Standard to female straight B-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 4 A; PUR violet cable, 2-wires, 0.34 mm²

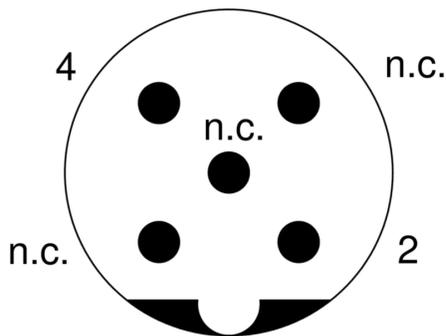
Product Description

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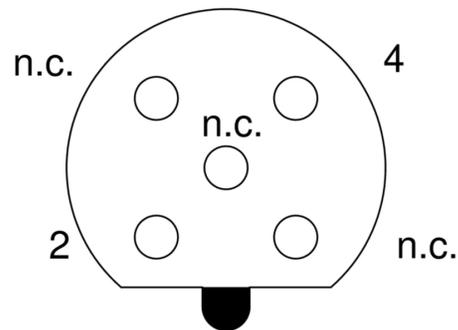
Technical Drawing



Male



Female



Technical Specifications

Face View Side 1

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
n.c.	green	n.c.	red	n.c.

Face View Side 2

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
n.c.	green	n.c.	red	n.c.

Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Shielded
Rated Voltage:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	4 A
Data Transmission:	PROFIBUS

Technical Data Side 1

Product Sub Family:	M12 Standard
Type of Contact / Gender:	Male
Connector Design:	Straight
Attachment Type:	Coupling Screw
Number of Pins:	5
Coding:	B
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 25 °C - + 80 °C
Protection Degree / IP Rating**:	IP65, IP67
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	CuZn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU-GF
Contact Bearer Color:	Violett
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	TPU
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Shielding Material:	CuZn, tin-plated
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	Do not connect or disconnect under load.

Cable Data

Cable Number:	254
Conductor Size:	0.34 mm ²
Number of Wires:	2
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 M
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	violet matt similarly RAL 4001
Cable Diameter D:	ø 7.60 ± 0.30 mm
Wire Insulation Material:	PE

Insulated Wire Diameter:	ø 2.60 ± 0.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Foil shield:	Al-PT Foil
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2, flame-retardant
Cable Characteristics:	Exclusion of dangerous materials; Line fulfills the transmission values RS485 (Type A) of the PROFIBUS user organization; Free of lacquer wetting disturbing substances; Good microbes and hydrolysis resistance Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and Silicone; Coldness flexibility
Core Colors:	red, green

Technical Data Side 2

Product Sub Family, Side 2:	M12 Standard
Type of Contact / Gender, Side 2:	Female
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	5
Coding, Side 2:	B
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 ⁹ Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 25 °C - + 80 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67
Design Standard, Side 2:	IEC 61076-2-101
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuZn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	TPU
Contact Bearer Color, Side 2:	Violett
Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel-plated
Shielding Material, Side 2:	CuZn, tin-plated
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
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Notes

Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note Derating:	Notice derating

History

Variants

Item #	Item Description	Cable Length
11015	0975 254 101/0,3 M	0.3 m
27826	0975 254 101/0,5 M	0.5 m
51066	0975 254 101/0,6 M	0.6 m
11016	0975 254 101/1 M	1 m
11017	0975 254 101/1,5 M	1.5 m
11018	0975 254 101/2 M	2 m
73795	0975 254 101/2,5 M	2.5 m
12589	0975 254 101/3 M	3 m
26569	0975 254 101/4 M	4 m
11019	0975 254 101/5 M	5 m
27870	0975 254 101/6 M	6 m
29275	0975 254 101/7 M	7 m
57771	0975 254 101/7,5 M	7.5 m
57135	0975 254 101/8 M	8 m
67766	0975 254 101/9 M	9 m
27086	0975 254 101/10 M	10 m
6458	0975 254 101/11 M	11 m
45738	0975 254 101/12 M	12 m
62186	0975 254 101/13 M	13 m
6459	0975 254 101/14 M	14 m
28406	0975 254 101/15 M	15 m
67753	0975 254 101/17 M	17 m
67754	0975 254 101/18 M	18 m
47927	0975 254 101/20 M	20 m
14617	0975 254 101/22 M	22 m
67830	0975 254 101/24 M	24 m
47822	0975 254 101/25 M	25 m
67831	0975 254 101/26 M	26 m
934636772	0975 254 101/27 M	27 m
47823	0975 254 101/30 M	30 m
47824	0975 254 101/35 M	35 m
934636773	0975 254 101/37 M	37 m
47923	0975 254 101/40 M	40 m
934636774	0975 254 101/42 M	42 m
47925	0975 254 101/45 M	45 m
47926	0975 254 101/50 M	50 m
3112	0975 254 101/55 M	55 m
107723	0975 254 101/70 M	70 m

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