



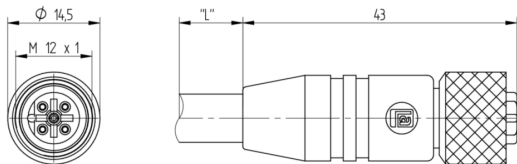
Product: [0975 254 103](#)

PROFIBUS Data Single-Ended Cordset: M12 Standard, female, straight, 5-pin, B-coded, shielded, black body, 50 V AC / 60 V DC, 4 A; PUR violet cable, 2-wires, 0.34 mm²

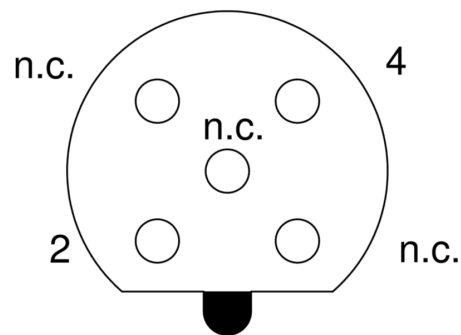
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Technical Drawing



Female



Technical Specifications

Face View

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

Technical Data

Product Family:	Data Connectors
Product Sub Family:	M12 Standard
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Female
Connector Design:	Straight
Number of Pins:	5
Coding:	B
Shielding:	Shielded
Attachment Type:	Coupling Nut
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
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)

Materials

Contact Base Material:	CuZn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU
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

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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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

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

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	Do not connect or disconnect under load.

Variants

Item #	Item Description	Cable Length
55410	0975 254 103/0,3 M	0.3 m
27466	0975 254 103/0,5 M	0.5 m
86913	0975 254 103/0,6 M	0.6 m
12504	0975 254 103/1 M	1 m
18010	0975 254 103/1,5 M	1.5 m
17047	0975 254 103/2 M	2 m
12505	0975 254 103/3 M	3 m
27683	0975 254 103/4 M	4 m
12506	0975 254 103/5 M	5 m
38430	0975 254 103/6 M	6 m
29422	0975 254 103/7 M	7 m
67258	0975 254 103/8 M	8 m
50998	0975 254 103/9 M	9 m
34618	0975 254 103/10 M	10 m
82951	0975 254 103/12 M	12 m
28404	0975 254 103/15 M	15 m
50580	0975 254 103/20 M	20 m
58900	0975 254 103/25 M	25 m
67789	0975 254 103/30 M	30 m
934636645	0975 254 103/35 M	35 m
792	0975 254 103/40 M	40 m
7072	0975 254 103/50 M	50 m

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