



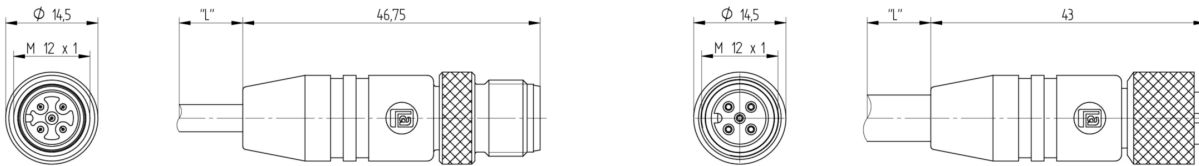
**Product:** [0935 253 103](#)

CANopen / DeviceNet Data Double-Ended Cordset: Male straight A-coded black M12 Standard to female straight A-coded black M12 Standard, 50 V AC / 60 V DC, 4 A; PUR black cable, 4-wires, Data: 2x0.25 mm<sup>2</sup> + Power: 2x0.34 mm<sup>2</sup>

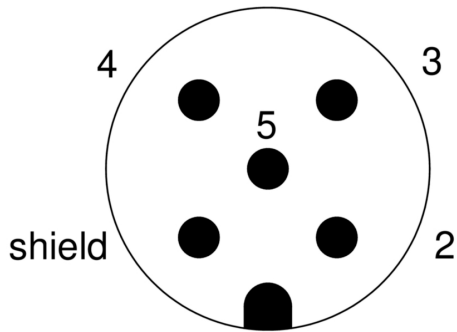
**Product Description**

CANopen / DeviceNet Data Double-Ended Cordset: Male straight A-coded black M12 Standard to female straight A-coded black M12 Standard, 50 V AC / 60 V DC, 4 A; PUR black cable, 4-wires, Data: 2x0.25 mm<sup>2</sup> + Power: 2x0.34 mm<sup>2</sup>

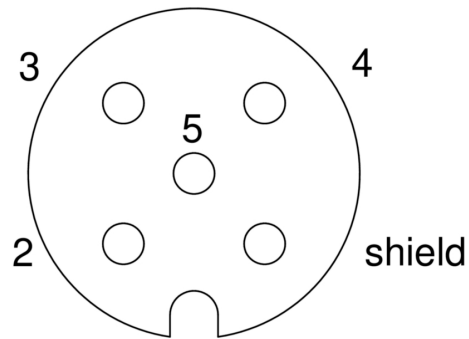
**Technical Drawing**



**Male**



**Female**



**Technical Specifications**

Face View Side 1

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
shield	red	black	white	blue

Face View Side 2

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
shield	red	black	white	blue

## Product Description

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

## 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:	A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 80 °C
Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU-GF
Contact Bearer Color:	Black
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
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	Do not connect or disconnect under load.

## Cable Data

Cable Number:	253
Conductor Size:	Data: 2x0.25 mm <sup>2</sup> + Power: 2x0.34 mm <sup>2</sup>
Number of Wires:	4
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:	black matt similarly RAL 9005
Cable Diameter D:	ø 6.70 ± 0.20 mm
Wire Insulation Material:	Data: PE + Power: PE or PP
Insulated Wire Diameter:	Data: ø 2.05 ± 0.10 mm + Power: ø 1.40 ± 0.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Element Shield:	Al-PT Foil

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 or 21198
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL VW-1, CSA FT-1
Cable Characteristics:	Exclusion of dangerous materials; Line construction acc. CAN-Bus and DeviceNET specification; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and Silicone; Free of lacquer wetting disturbing substances; Coldness flexibility
Core Colors:	Data: blue, white + Power: red, black

## 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:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 <sup>9</sup> Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 80 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Design Standard, Side 2:	IEC 61076-2-101
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuSn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	TPU
Contact Bearer Color, Side 2:	Black
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
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

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

## Variants

Item #	Item Description	Cable Length
5711	0935 253 103/0,2 M	0.2 m
10964	0935 253 103/0,3 M	0.3 m
39590	0935 253 103/0,5 M	0.5 m
63296	0935 253 103/0,6 M	0.6 m

68394	0935 253 103/0,7 M	0.7 m
96045	0935 253 103/0,15 M	0.15 m
10965	0935 253 103/1 M	1 m
26732	0935 253 103/1,5 M	1.5 m
10966	0935 253 103/2 M	2 m
56844	0935 253 103/2,5 M	2.5 m
10967	0935 253 103/3 M	3 m
68666	0935 253 103/3,5 M	3.5 m
27157	0935 253 103/4 M	4 m
10968	0935 253 103/5 M	5 m
47825	0935 253 103/6 M	6 m
54779	0935 253 103/7 M	7 m
42734	0935 253 103/8 M	8 m
26747	0935 253 103/10 M	10 m
60650	0935 253 103/13 M	13 m
27866	0935 253 103/15 M	15 m
48986	0935 253 103/18 M	18 m
27423	0935 253 103/20 M	20 m
45847	0935 253 103/25 M	25 m
72937	0935 253 103/30 M	30 m
52246	0935 253 103/40 M	40 m
318	0935 253 103/50 M	50 m
52826	0935 253 103/55 M	55 m

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