



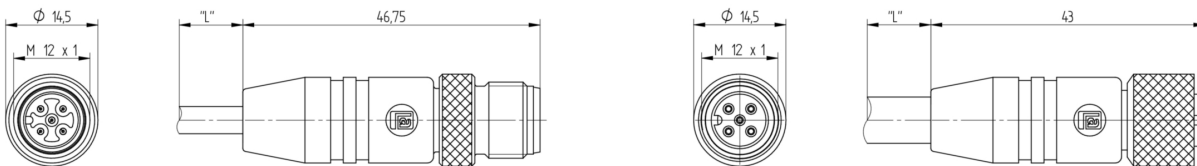
**Product:** [0935 253 103](#)

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>

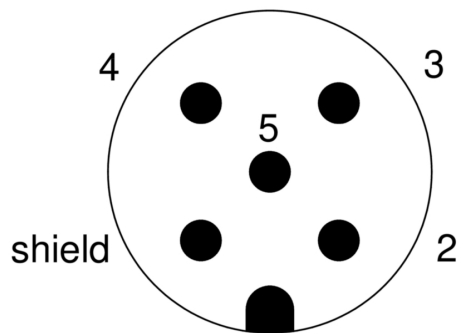
### Product Description

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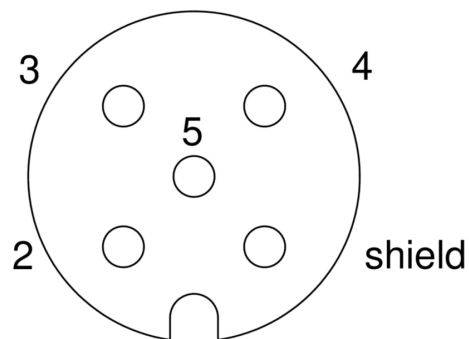
### Technical Drawing



## 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 Type:         | Unshielded            |
| Voltage Rating:         | 60 V                  |
| Rated Impulse Voltage:  | 1.5 kV                |
| Operating Voltage:      | 50 V AC / 60 V DC     |
| Current Rating:         | 4 A                   |
| Data Transmission Type: | CANopen / DeviceNet   |

Technical Data Side 1

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| Side 1 Product Sub Family:           | M12 Standard                             |
| Side 1 Type of Contact/Gender:       | Male                                     |
| Connector Design:                    | Straight                                 |
| Attachment Type:                     | Coupling Screw                           |
| Number of Pins:                      | 5                                        |
| Coding, Side 1:                      | 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)    |
| Overvoltage Category:                | III acc. to DIN EN 60664-1 (VDE 0110-1)  |
| Contact Base Material:               | CuSn                                     |
| Side 1 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 mm² + Power: 2x0.34 mm²             |
| 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

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Side 2 Product Sub Family:                   | M12 Standard                            |
| Side 2 Type of Contact/Gender:               | 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)   |
| Overvoltage Category, Side 2:                | III 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 |
|-----------------|-----|

Resistances

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

Notes

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

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.61 Revision Date: 02-03-2025 |
|----------------------|-------------------------------------------------|

Variants

| Item # | Item Description | Cable Length |
|--------|------------------|--------------|
|--------|------------------|--------------|

|       |                     |        |
|-------|---------------------|--------|
| 90523 | 0935 253 103/37 M   |        |
| 12304 | 0935 253 103/0,8 M  |        |
| 3707  | 0935 253 103/1,6 M  |        |
| 11769 | 0935 253 103/65 M   |        |
| 89485 | 0935 253 103/5,5 M  |        |
| 11770 | 0935 253 103/70 M   |        |
| 25815 | 0935 253 103/3,3    |        |
| 25814 | 0935 253 103/1,8 M  |        |
| 72938 | 0935 253 103/0,37 M |        |
| 71876 | 0935 253 103/6,5 M  |        |
| 19396 | 0935 253 103/12 M   |        |
| 19393 | 0935 253 103/3,2 M  |        |
| 71878 | 0935 253 103/2,2 M  |        |
| 96045 | 0935 253 103/0,15 M | 0.15 m |
| 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  |
| 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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