

**Product:** [0935 613 301](#) 



CANopen / DeviceNet, Cordset, double ended: 7/8", Male, Straight, 5 pole, to a, 7/8", Female, Straight, 5 pole, with cable type, Grey, PVC, DeviceNet-THICK

**Product Description**

0935 613 301 - CANopen / DeviceNet, Cordset, double ended: 7/8", Male, Straight, 5 pole, to a, 7/8", Female, Straight, 5 pole, with cable type, Grey, PVC, DeviceNet-THICK

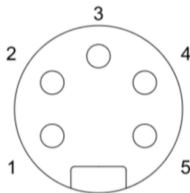
**Technical Drawing**

**Pin Assignment**

male connector / female connector, 5 poles	Function	Color
Pin 1	Shield	bare
Pin 2	+ 24 V	red
Pin 3	GND (0 V)	black
Pin 4	CAN_H	white
Pin 5	CAN_L	blue

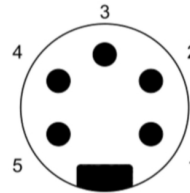


**Faceview  
MINI 7/8"  
Female**

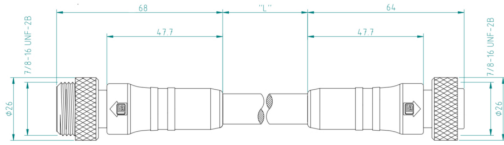


- 1 = Cu
- 2 = RD
- 3 = BK
- 4 = WH
- 5 = BU

**Faceview  
MINI 7/8"  
Male**



- 1 = Cu
- 2 = RD
- 3 = BK
- 4 = WH
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## Technical Specifications

### Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Shielded
Voltage Rating:	300 V
Rated Voltage (UL):	300 V
Current Rating:	8 A
Data Transmission Type:	CANopen / DeviceNet
Data Transmission Rate:	CANopen / DeviceNet

### Technical Data Side 1

Side 1 Product Sub Family:	7/8"
Side 1 Type of Contact/Gender:	Male
Connector Design:	Straight
Attachment Type:	Coupling Screw with external threads
Number of Pins:	5
Coding, Side 1:	A
Ambient Temperature (Operation)*:	-40° C - +90° C
Protection Degree / IP Rating**:	IP68
Contact Base Material:	CuZn
Side 1 Contact Plating:	gold over silver plated
Contact Bearer Material:	PUR, yellow
Contact Bearer Color:	Yellow
Molded Body Material:	Black
Molded Body Color:	Grey
Attachment Material:	Al, anodized black
O-Ring Material:	2 Pair + Drain

### Cable Data

Cable Number:	613
Number of Wires:	2 Pair + Drain
Minimal Bending Radius (Fixed Inst):	> 7 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 M
Conductor Material:	Cu
Cable Jacket Material:	PVC
Cable Jacket Color:	Grey
Cable Diameter D:	Ø 12.1 mm
Wire Insulation Material:	PVC-Power, Data-PE
Insulated Wire Diameter:	Power Ø2.77 mm, Data Ø3.81 mm
Overall Shield (Cable):	Braid, TC, 65% Coverage

Ambient Temperature (Fixed Installation):	- 20 to + 60°C (60°C UL)
UL Cable Type:	CMG, PLTC-ER or UL AWM 20201, CSA AWM I/II A/B
Flammability Class (Cable Jacket):	FT4, IEC 60332-1-2
Cable Characteristics:	Mechanical Resistances, Abrasion, Impact, Weathering; Chemical Resistances to Oils, Acids, Alkalis

## Technical Data Side 2

Side 2 Product Sub Family:	7/8"
Side 2 Type of Contact/Gender:	Female
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Nut with internal threads
Number of Pins, Side 2:	5
Coding, Side 2:	A
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67
Contact Base Material, Side 2:	CuZn
Contact Plating, Side 2:	gold over silver plated
Contact Bearer Material, Side 2:	PUR
Contact Bearer Color, Side 2:	Yellow
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	Grey
Attachment Material, Side 2:	Al, anodized black
Note, Side 2:	Do not connect or disconnect under load.

## Safety & Environmental Compliance

RoHS Compliant:	Yes
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## Resistances

Oil Resistance:	Yes
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## Notes

Protection Degree / IP Rating Note:	Protection Degree and IP Rating per test standard IEC 60529 using a Lumberg Automation mating product
Note Derating:	Do not connect or disconnect under load.

## Variants

Item #	Item Description	Cable Length
900001616	0935 613 301/0.3M	0.3 m
59476	0935 613 301/0,3 M	0.3 m
910001616	0935 613 301/0.3M-Y	0.3 m
900001747	0935 613 301/0.6M	0.6 m
22418	0935 613 301/0,6 M	0.6 m
910001747	0935 613 301/0.6M-Y	0.6 m
900001727	0935 613 301/1M	1 m
53828	0935 613 301/1 M	1 m
910001727	0935 613 301/1M-Y	1 m
900001290	0935 613 301/2M	2 m
2256	0935 613 301/2 M	2 m
910001290	0935 613 301/2M-Y	2 m
900001740	0935 613 301/3M	3 m
71271	0935 613 301/3 M	3 m
910001740	0935 613 301/3M-Y	3 m
900000478	0935 613 301/4M	4 m
43437	0935 613 301/4 M	4 m
910000478	0935 613 301/4M-Y	4 m
900001291	0935 613 301/5M	5 m
910001291	0935 613 301/5M-Y	5 m
900001734	0935 613 301/6M	6 m
2257	0935 613 301/6 M	6 m
910001734	0935 613 301/6M-Y	6 m
900005045	0935 613 301/7M	7 m
900001854	0935 613 301/8M	8 m

910001854	0935 613 301/8M-Y	8 m
900001851	0935 613 301/9M	9 m
910001851	0935 613 301/9M-Y	9 m
900001292	0935 613 301/10M	10 m
84447	0935 613 301/10 M	10 m
910001292	0935 613 301/10M-Y	10 m
900001618	0935 613 301/12M	12 m
910001618	0935 613 301/12M-Y	12 m
900002974	0935 613 301/13M	13 m
910002974	0935 613 301/13M-Y	13 m
900001619	0935 613 301/15M	15 m
910001619	0935 613 301/15M-Y	15 m
900001852	0935 613 301/16M	16 m
910001852	0935 613 301/16M-Y	16 m
900001620	0935 613 301/18M	18 m
910001620	0935 613 301/18M-Y	18 m
900001853	0935 613 301/19M	19 m
910001853	0935 613 301/19M-Y	19 m
900002954	0935 613 301/20M	20 m
8398	0935 613 301/20 M	20 m
910002954	0935 613 301/20M-Y	20 m
900001621	0935 613 301/21M	21 m
910001621	0935 613 301/21M-Y	21 m
900001622	0935 613 301/25M	25 m
910001622	0935 613 301/25M-Y	25 m
900001614	0935 613 301/30M	30 m
910001614	0935 613 301/30M-Y	30 m
900005196	0935 613 301/31M	31 m
900005069	0935 613 301/35M	35 m
900005197	0935 613 301/46M	46 m
900004024	0935 613 301/50M	50 m
910004024	0935 613 301/50M-Y	50 m
900016434	0935 613 301/55M	55 m
900016433	0935 613 301/75M	75 m

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