

M12 female 90° A-cod. with cable

PUR AWG24+22 shielded bk UL/CSA+drag ch. 20m

DeviceNet, CANopen

Female 90°

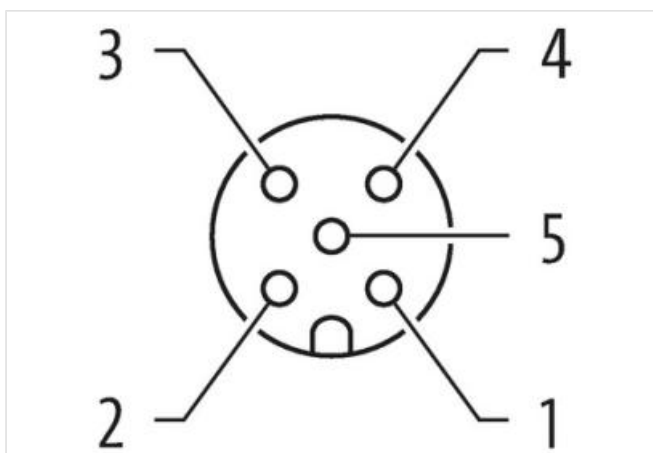
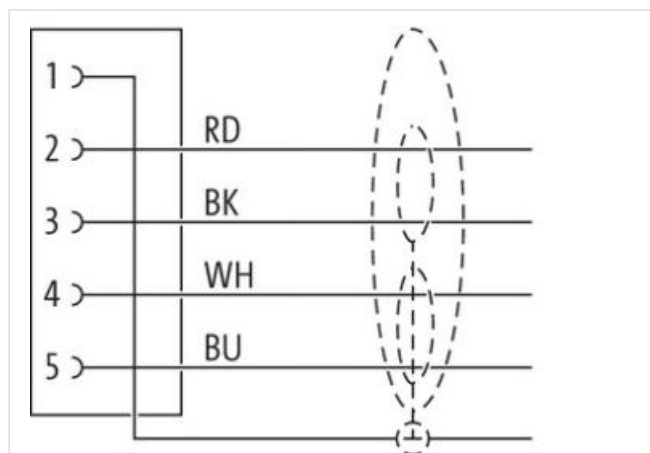
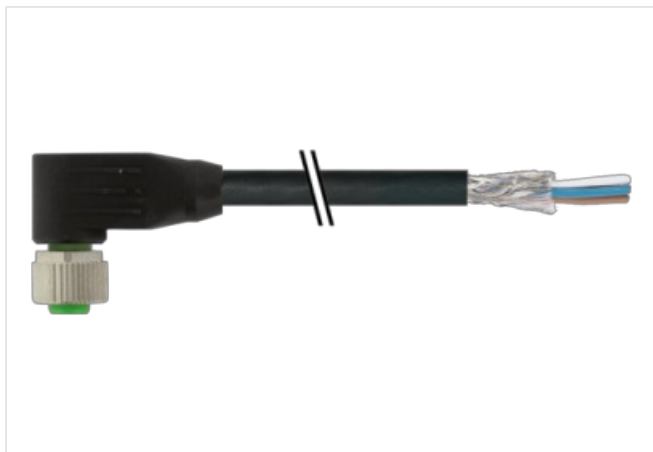
M12, 5-pole

shielded

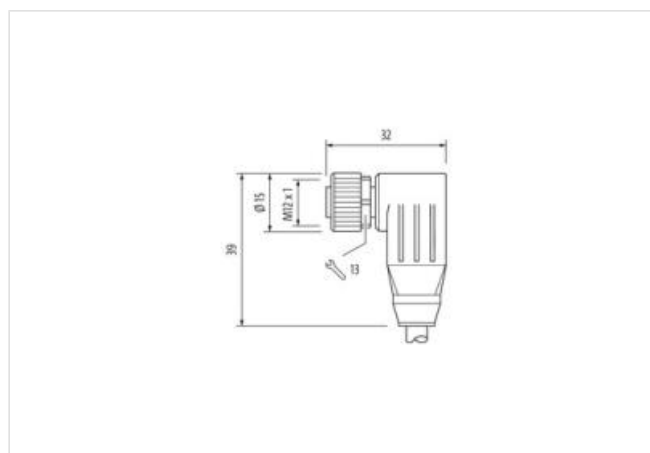
Plastic housings with good resistance against chemicals and oils.

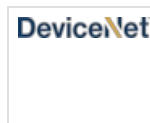
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

[Linkki tuotteeseen](#)**Kuvat**

Tuote voi erota kuvassa olevasta





Cable length	20 m
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Side 1

Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67

Kaupalliset tiedot

ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
GTIN	4065909034224
Pakkauskoko	1
Tullinumero	85444290

Electrical data | Supply

Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A

Installation | Connection

Mounting set	M12 x 1
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Device protection | Electrical

Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I

Mechanical data

Contour for corrugated hose	without
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Mechanical data | Material data

Coating locking	Nickel
Coating of fitting	nickel plated
Locking material	Zinc die-casting

Material screw connection Zinc die-casting

Mechanical data | Mounting data

Mounting method inserted, screwed, Shaking protection

Environmental characteristics | Climatic

Operating temperature min. -25 °C

Operating temperature max. 85 °C

Additional condition temperature range depending on cable quality

Important installation notes

Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

Note on bending radius **Attention:** Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.

Installation | Cable

wire arrangement (white, blue), (black, red)

Cable identification 838

Jacket Color black

Type of Certificate cURus

Amount stranding 1

Stranding 2 wires twisted

Amount stranding (type 2) 1

Stranding (type 2) 2 Stranded joints twisted

Cable shielding (type) copper braid, tinned

Cable shielding (coverage) 65 %

Banding Foil

Drain wire (cross-section) 22 AWG

wire arrangement (white, blue), (black, red)

Cable weight 63,12 g/m

Material jacket PUR

Shore hardness jacket 90 ± 5 Shore A

Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free

Outer-diameter (jacket) 6,9 mm

Tolerance outer diameter (sheath) ± 5 %

Material wire insulation PE

Amount wires 2

Outer diameter insulation 2,1 mm

Outer diameter tolerance core insulation ± 5 %

Shore hardness wire insulation 64 ± 5 Shore D

Ingredient freeness wire insulation lead-free, CFC-free, halogen-free

Amount strands (wire) 19

Diameter of single wires 24 AWG

Conductor crosssection (wire) 24 AWG

Drain wire (cross-section) 22 AWG

Material conductor wire copper stranded wire, tinned

Electrical function wire Data

Material wire insulation (Data) PE

Outer diameter wire insulation (Data) 1,5 mm

Tolerance outer diameter wire insulation (data) ± 53 %

Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free

Amount wires (Data) 2

Amount strands wire (Data) 19

Diameter of single wires (Data) 22 AWG

Conductor crosssection wire (Data) 22 AWG

Material conductor wire (Data) copper stranded wire, tinned

Electrical function wire (data) Power

Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Current load capacity min. Wire (Data)	6 A
Electrical function wire	Data
Electrical function wire (data)	Power
Characteristic impedance	120 $\Omega \pm 10 \% @ 1 \text{ MHz}$
Electrical resistance line constant wire	78 Ω/km
Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electric capacitance	40000 pF/km
AC withstand voltage (wire - shield)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing DIN EN 60811-404
Bending radius (installation)	x Outer diameter
Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	1 Mio.
Traversing distance (C-track)	5 m
Travel speed (C-track)	3 m/s
No. of torsion cycles	2 Mio.
Torsion stress	$\pm 30 ^\circ/\text{m}$
Torsion speed	35 cycles/min