M12 male 90° / M12 female 90° A-cod. shielded

PUR 4x0.5+2x0.25 shielded gn UL/CSA+drag ch. 1m

Art.No.: 7000-46061-8020100
Weight: 0.133 kg
Country of origin: HU
Model designation: MSDL0-C-6p2_802_1.0-ZE

Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

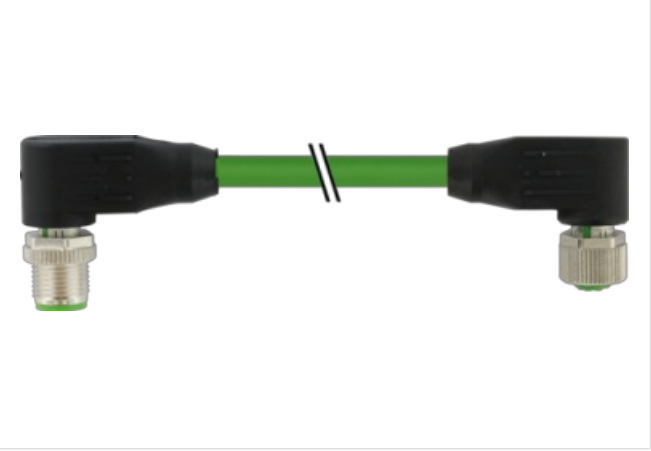
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

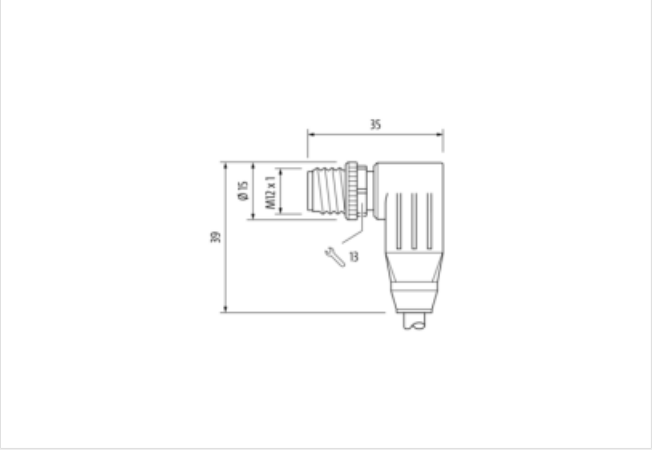
Product details:

Cube67
Male 90° - female 90°
M12 - M12, 6-pole
A-coded
Shielded
Hybrid cable
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.

Link to Product

Illustration





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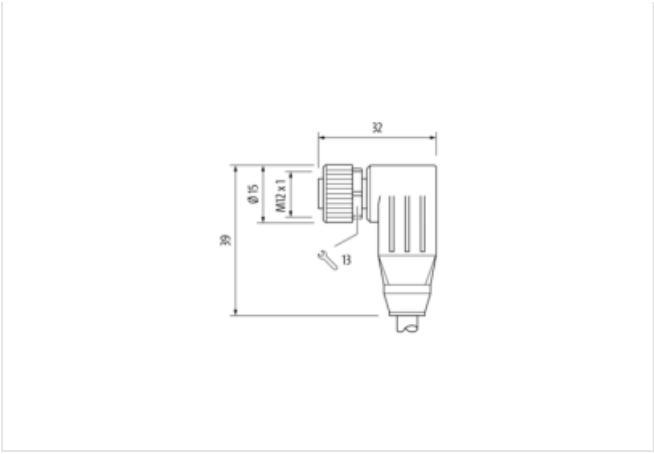

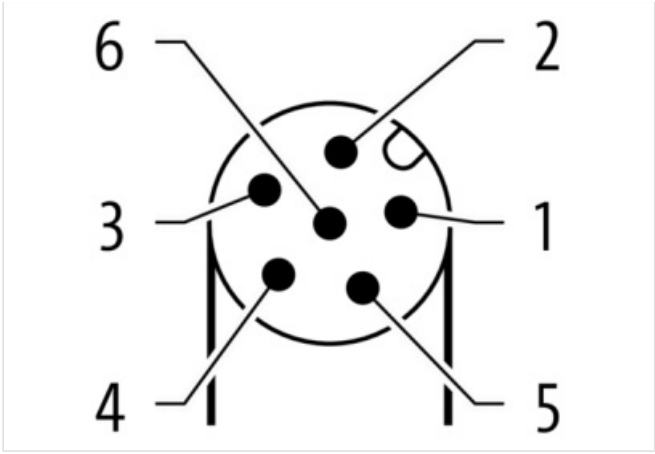

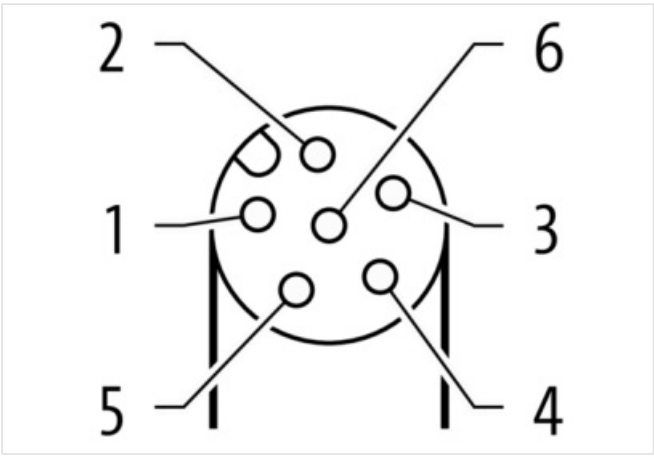

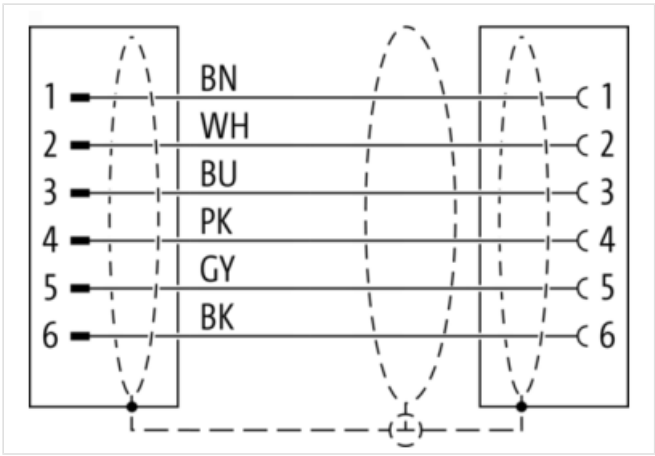

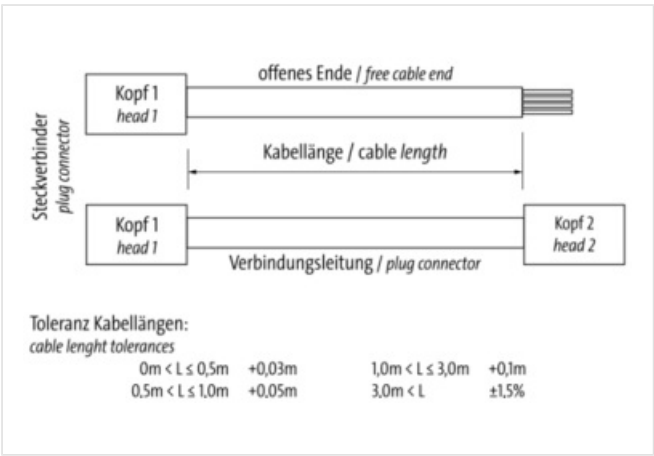

Product may differ from Image

Cable length	1,00 m
Side 1-1	
Family construction form	M12

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No. of poles	6
Coding	A
Gender	Male
Mounting method	Inserted, Screwed
Thread	M12x1
Tightening torque	0.6 Nm
Width across flats	SW 13
Cable outlet	angled
Material	PUR
Material contact	Copper alloy
Coating contact	Gold plated
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65

Side 2-2

Family construction form	M12
No. of poles	6
Coding	A
Gender	Female
Mounting method	Inserted, Screwed
Thread	M12x1
Tightening torque	0.6 Nm
Width across flats	SW 13
Cable outlet	angled
Material	PUR
Material contact	Copper alloy
Coating contact	Gold plated
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65

Commercial data

URL webshop	https://shop.murrelektronik.com/7000-46061-8020100
GTIN	4048879140164
EU-Customs tariff number	85444290
US-Customs tariff number	8544429090
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-7.1	27060307
ECLASS-8.0	27060307
ECLASS-8.1	27060307
ECLASS-9.0	27060307
ECLASS-9.1	27060307
ECLASS-10.0.1	27060307
ECLASS-10.1	27060307
ECLASS-11.0	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307
ECLASS-14.0	27060307
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
ETIM-9.0	EC001855
ETIM-10.0	EC001855
customs tariff number	85444290

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EAN	4048879140164
Packaging unit	1
Electrical data | Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	No
Device protection | Electrical	
Additional condition degree of protection	Inserted, Screwed
Pollution degree	3
Rated surge voltage	0.8 kV
Insulating material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data | Material data	
Housing color	black
Color contact carrier	green
Screw connection	Zinc die-casting
Coating of fitting	Nickel plated
Gasket	FKM
Mechanical data | Mounting data	
Mounting method	Inserted, Screwed, Shaking protection
Environmental characteristics | Climatic	
Operating temperature min.	-30 °C
Operating temperature max.	85 °C
Additional condition temperature range	Depending on connected cable
Important installation notes	
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.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Conformity	
Product standard	EN IEC 61076-2-101 (M12)
Installation | Cable-1	
Cable identification	802
Function cable	Hybrid, Signal, Data
Cable weigth	70 g/m
Stranding	1 × 2 wires stranded
Stranding (type 2)	1 × 4 wires stranded with stranding combination with 3 filler
Cable shielding (type)	Copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Nonwoven
Filler	Yes
Wire arrangement	(GY, PK), BU, WH, BN, BK
Shielding	Shielded
Electrical function wire	Signal
Material wire insulation	PP
Amount wires	4
Outer diameter wire insulation	1.4 mm ± 0.05 mm
Conductor crosssection (wire)	0.5 mm²

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Material conductor wire	Stranded copper wire, bare
Core construction (wire)	64 × 0.1 mm
Ingredient freeness wire insulation	Lead-free, Cadmium-free, CFC-free, Halogen-free, Silicone-free
Electrical function wire (type 2)	Data
Material wire insulation (type 2)	PP
Amount wires (type 2)	2
Outer diameter wire insulation (type 2)	1.1 mm ± 0.05 mm
Conductor crosssection (wire type 2)	0.25 mm²
Material conductor wire (type 2)	Stranded copper wire, bare
Core construction (wire type 2)	32 × 0.1 mm
Ingredient freeness wire insulation (type 2)	Lead-free, Cadmium-free, CFC-free, Halogen-free, Silicone-free
Material jacket	PUR
Outer-diameter (jacket)	6.6 mm ± 5 %
Jacket color	green / RAL 6018
Freedom from ingredients (jacket)	Lead-free, CFC-free, Halogen-free
Cable shielding (type)	Copper braid, tinned
Cable shielding (coverage)	80 %
Conductor resistance (wire)	39 Ω/km @ 20 °C
Conductor resistance (wire type 2)	79 Ω/km @ 20 °C
Current load capacity (standard)	To DIN VDE 0298-4
Current load capacity max. (wire)	7.2 A
Current load capacity max. Wire (type 2)	4.5 A
Nominal voltage max.	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	63000 pF/km
Insulation resistance	2 GΩ × km
Characteristic impedance	84 Ω
Operating temperature (static)	-40 °C … 80 °C
Operating temperature (dynamic)	-30 °C … 70 °C
Flame resistance	IEC 60332-1-2, UL 1581 § 1060 (FT1), UL 1581 § 1090, UL 1581 § 1100 (FT2)
Oil resistance	IEC 60811-404, IRM 902
Ozone resistance	EN 50396
UV resistance	UL 1581 § 1200
Other resistances	Good resistance to saturated hydrocarbons (diesel, kerosene, petrol ether), Microbe-resistant, MUD-resistant (NEK 606)
Notes	Application-related testing
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C
Travel speed (C-track)	2 m/s @ 25 °C
Acceleration (C-track)	2 m/s² @ 25 °C
Torsional stress	± 180 °/m

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