M12 male 0° A-cod. with cable

PUR 3x0.34 bk UL/CSA+drag ch. 1m

Art.No.: 7000-12001-6330100
Weight: 0.042 kg
Country of origin: DE
Model designation: MSAL0-R633_1.0

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

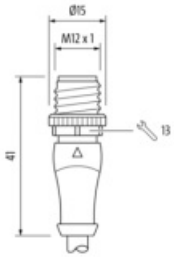
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

Product details:

Male straight
M12, 3-pole
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request
With cable grommet
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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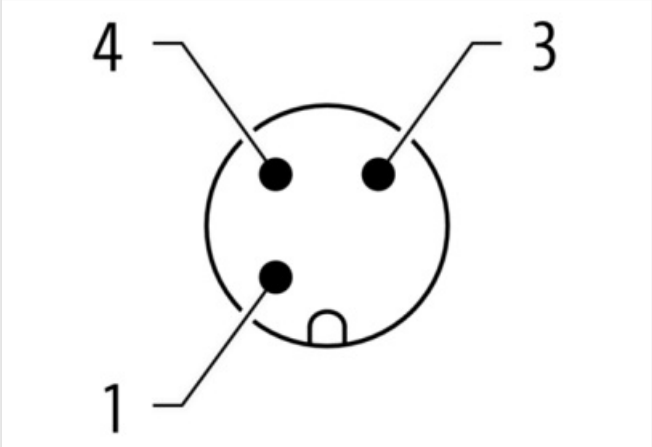

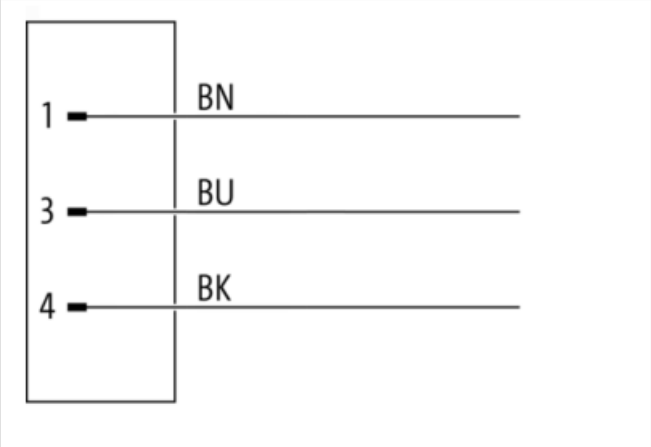

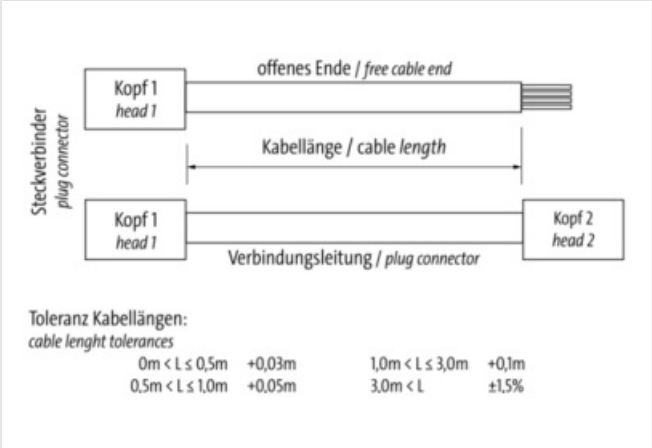

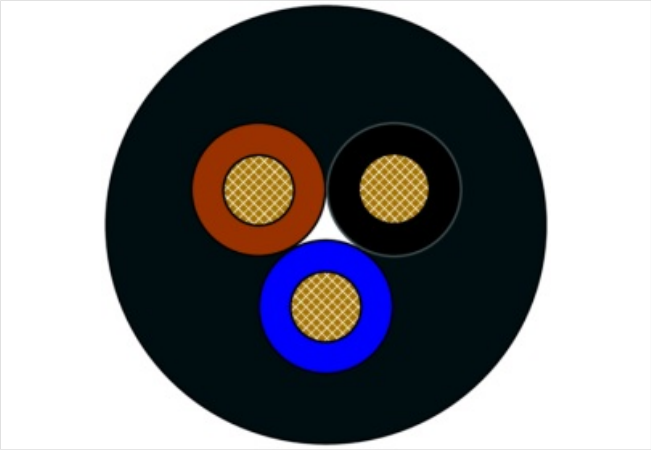

Product may differ from Image

Cable length	1,00 m
Side 1-1	
Family construction form	M12
No. of poles	3
Coding	A
Gender	Male
Mounting method	Inserted, Screwed
Thread	M12x1
Tightening torque	0.6 Nm
Width across flats	SW 13
Cable outlet	straight
Suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Material contact	Copper alloy
Coating contact	Gold plated
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Side 2-2	

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Family construction form	free cable end
Stripping length (jacket)	20 mm
Commercial data	
URL webshop	https://shop.murrelektronik.com/7000-12001-6330100
GTIN	4048879218986
EU-Customs tariff number	85444290
US-Customs tariff number	8544429090
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.1	27279218
ECLASS-8.0	27279218
ECLASS-8.1	27279218
ECLASS-9.0	27060311
ECLASS-9.1	27060311
ECLASS-10.0.1	27060311
ECLASS-10.1	27060311
ECLASS-11.0	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311
ECLASS-14.0	27060311
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
EAN	4048879218986
Packaging unit	1
Electrical data | Supply	
Operating voltage AC max.	250 V
Operating voltage DC max.	250 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	No
Installation | Connection	
Mounting thread	M12x1
Device protection | Electrical	
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Additional condition degree of protection	Inserted, Screwed
Pollution degree	3
Rated surge voltage	2.5 kV
Insulating material group (IEC 60664-1)	I
Mechanical data | Material data	
Screw connection	Zinc die-casting
Coating of fitting	Nickel plated
Locking material	Zinc die-casting
Coating locking	Matt nickel-plated
Mechanical data | Mounting data	

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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	633
Cable Type	3
Cable weigth	27 g/m
Stranding	1 × 3 wires stranded
Wire arrangement	BN, BK, BU
Material wire insulation	PP
Amount wires	3
Outer diameter wire insulation	1.25 mm ± 0.05 mm
Conductor crosssection (wire)	0.34 mm²
Material conductor wire	Stranded copper wire, bare
Core construction (wire)	42 × 0.1 mm
Ingredient freeness wire insulation	Lead-free, Cadmium-free, CFC-free, Halogen-free, Silicone-free
Material jacket	PUR
Outer-diameter (jacket)	4.1 mm ± 5 %
Jacket color	black / RAL 9005
Freedom from ingredients (jacket)	Lead-free, Cadmium-free, CFC-free, Halogen-free, Silicone-free
Material property (jacket)	Abrasion-resistant, Low adhesion, Good machinability, Matte
Conductor resistance (wire)	57 Ω/km @ 20 °C
Current load capacity (standard)	To DIN VDE 0298-4
Current load capacity max. (wire)	6 A
Nominal voltage max.	300 V
Withstand voltage (wire - wire)	2.5 kV @ 60 s
Withstand voltage (wire - jacket)	2.5 kV @ 60 s
Operating temperature (static)	-40 °C … 80 °C / 90 °C @ 10000 h Operation
Operating temperature (dynamic)	-25 °C … 80 °C / 90 °C @ 10000 h Operation
Operating temperature (drag chain)	-25 °C … 80 °C / 90 °C @ 10000 h Operation
Flame resistance	UL 1581 § 1090, CSA FT2, IEC 60332-2-2
Oil resistance	IEC 60811-404
Chemical resistance	Good
Other resistances	Good resistance to gasoline, Hydrolysis-resistant, Microbe-resistant
Notes	Application-related testing
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C | horizontal
Travel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	10 m/s² @ 25 °C
No. of torsion cycles	5 Mio.
Torsional stress	± 360 °/m
Torsion speed	35 cycles/min

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