

M12 male 0° A-cod. with cable

TPE 4x22AWG ye UL/CSA. ITC/PLTC 3m

Art.No.: 7700-12021-U040300

Weight: 0.160 kg Country of origin: US

Model designation: MSAL0-TU04_3.0

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, 4-pole USA

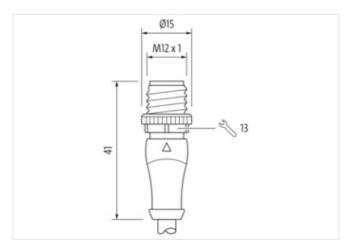
Plastic housings with good resistance against chemicals and oils.

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

Link to Product

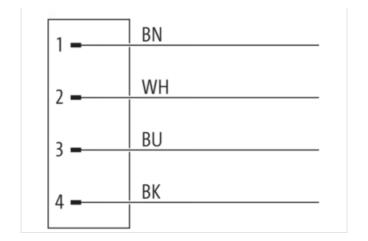
Illustration

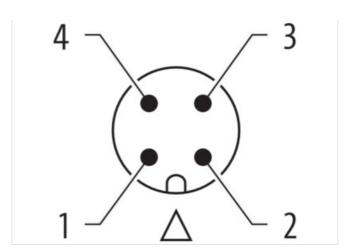


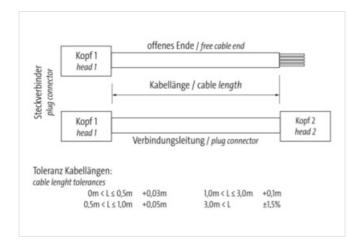


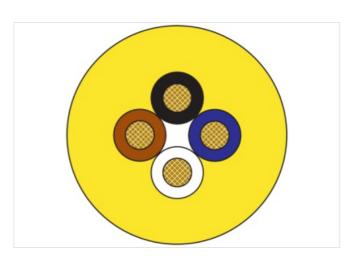


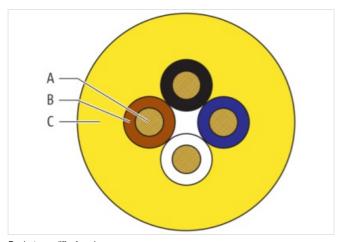
stay connected











Product may differ from Image















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Material short text MSAL0-TU04_3.0

Cable length 3,00 m

Side 1



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Family construction form	M12	
No. of poles	4	
Coding	A	
Mounting method	inserted, screwed	
Tightening torque	0,6 Nm	
Width across flats	SW13	
suitable for corrugated tube (internal Ø)	10 mm	
Side 2		
Stripping length (jacket)	20 mm	
Commercial data	20 11111	
	Lu. // Lu Lu 1	
URL Webshop	https://shop.murrelektronik.com/7700-12021-U040300	
GTIN	4048879740678	
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	
customs tariff number	85444290	
EAN	4048879740678	
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	
Device protection Electrical		
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65	
Pollution Degree	3	
Rated surge voltage	2,5 kV	
Material group (IEC 60664-1)	I	
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 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		

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-12-27



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Product standard	EN IEC 61076-2-101 (M12)
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Installation Cable	
Cable identification	U04
Amount stranding	1
Stranding	4 wires stranded
Wire arrangement	brown, black, blue, white
Cable weigth	45 g/m
Material wire insulation	PVC
Amount wires	4
Outer diameter insulation	1,27 mm
Outer diameter tolerance core insulation	± 0,05 mm
Ingredient freeness wire insulation	CFC-free, lead-free
Amount strands (wire)	19
Diameter of single wires	34 AWG
Conductor crosssection (wire)	22 AWG
Material conductor wire	Stranded copper wire, bare
Outer-diameter (jacket)	5,36 mm
Tolerance outer diameter (sheath)	±5%
Material jacket	TPE
Freedom from ingredients (jacket)	CFC-free, halogen-free, lead-free
Conductor resistance (wire)	46.9 Ω/km @ 20 °C
Nominal voltage AC max.	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	105 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	90 °C
Flame resistance	CSA FT4
Oil resistance	good
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	3 Mio.
Torsion stress	180 °/m