

M12 male 0° A-cod. with cable

TPE 5x18AWG ye UL/CSA. ITC/PLTC 10m

Art.No.: 7700-12041-1611000 Weight: 0.855 Country of origin: US Model designation: MSAL0-U161 10.0

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 <u>on request</u>

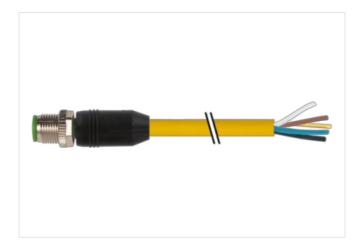
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

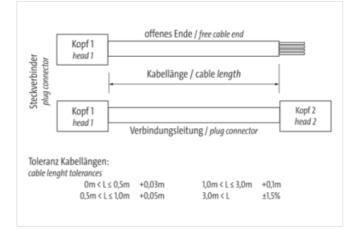
Product details: Cable is approved for 600 V Male straight M12, 5-pole USA Cable is approved for 600 V Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

Link to Product

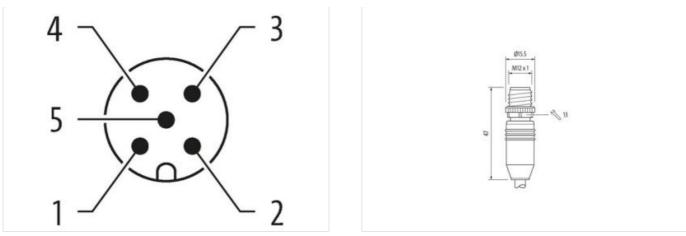
Illustration





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: 2025-08-04





Product may differ from Image



Side 1 0.6 Nm Family construction form M12 Thread M12 x 1 Coding A No. of poles 5 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-8.1 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.1		
Tightening torque 0,6 Nm Family construction form M12 Thread M12 x 1 Coding A No. of poles 5 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 2727060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.0 27060311 ECLASS-1.0 27060311 ECLASS-1.0 27060311 ECLASS-1.0 27060311 ECLASS-1.0 ECOMBES Eustoms tariff number 85444290 Eustoms tariff number 85444290 Ecuatoms tariff number 85444290 Ecuatoms tariff number 1 Packaging unit 1 Packaging unit 1	Cable length	10 m
Family construction form M12 Thread M12 x 1 Coding A No. of poles 5 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 ECLASS-8.0 27279218 ECLASS-8.0 27060311 ECLASS-10.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 EUM+5.0 EC001855 Dustoms tarliff number 8544290 Eustoms tarliff number 8544290 ECAN 4048879531894 EAN 4048879531894 Packaging unit 1 Packaging unit 1 Electr	Side 1	
Thread M12 x 1 Coding A No. ol poles 5 With across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27260311 ECLASS-6.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 ECLASS-5 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2	Tightening torque	0,6 Nm
Coding A No. of poles 5 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data E ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-6.0 27279218 ECLASS-8.0 27060311 ECLASS-8.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 ECLASS-1.1 85444290 customs tariff number 8544290 customs tariff number 8544290 EAN 4048879531894 EAN 4048879531894 Packaging unit 1 Electrical data Supply Doperating voltage AC max. Doperating voltage AC max. 125 V Operating voltage AC (UL-listed) 30 V Current operating voltage BC (UL-listed) 30 V <td< td=""><td>Family construction form</td><td>M12</td></td<>	Family construction form	M12
No. of poles 5 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECMASS-12.0 27060311 Dectass tariff number 85444290 Doutoms tariff number 85444290 EAN 4048879531894 EAN 4048879531894	Thread	M12 x 1
Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-9.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 DECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060314 ECLASS-1.2.0 2705731894 EAN 4048879531894	Coding	A
Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data 27279218 ECLASS-6.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 27060311 ECLASS-1.2.0 1 EXAMM 404879531894 EXAN 4048879531894 EAN 4048879531894 Packaging unit 1 Packaging unit 1 Electrical data Supply 25 V Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage DC (UL-listed) 30 V	No. of poles	5
Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-9.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 sustoms tariff number 1 Packaging unit 1 Packaging unit 1 Packaging unit 1 Electrical data Supply Sustoms Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 30 V	Width across flats	SW13
ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.1 27060311 ECLASS-1.2.0 27060311 Ecustoms tariff number 8544290 sustoms tariff number 8544290 EAN 4048879531894 Packaging unit 1 Packaging unit 1 Eletrical data Supply 2 Operating	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
ECLASS-7.0 27279218 ECLASS-8.0 27060311 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 customs tariff number 85444290 customs tariff number 85444290 EAN 4048879531894 Packaging unit 1 Packaging unit 1 Electrical data Supply 2 Operating voltage AC max. 125 V Operating voltage DC (UL-listed) 30 V <t< td=""><td>Commercial data</td><td></td></t<>	Commercial data	
ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 8544290 customs tariff number 10 EAN 4048879531894 Packaging unit 1 Packaging unit 1 Electrical data Supply 0 Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage DC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection 4 A	ECLASS-6.0	27279218
ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 sustoms tariff number 85444290 EAN 4048879531894 EAN 4048879531894 Packaging unit 1 Electrical data Supply 1 Operating voltage AC max. 125 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection 4 A	ECLASS-7.0	27279218
ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 customs tariff number 85444290 customs tariff number 85444290 EAN 4048879531894 EAN 4048879531894 Packaging unit 1 Packaging unit 1 Electrical data Supply	ECLASS-8.0	27279218
ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 customs tariff number 85444290 EAN 4048879531894 EAN 4048879531894 Packaging unit 1 Packaging unit 1 Electrical data Supply 1 Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage DC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A	ECLASS-9.0	27060311
ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 customs tariff number 85444290 EAN 4048879531894 EAN 4048879531894 Packaging unit 1 Packaging unit 1 Electrical data Supply 1 Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage DC (UL-listed) 30 V Operating per contact max. 4 A Installation Connection 4 A	ECLASS-10.1	27060311
ETIM-5.0EC001855customs tariff number85444290customs tariff number85444290EAN4048879531894EAN4048879531894Packaging unit1Packaging unit1Electrical data Supply1Operating voltage AC max.125 VOperating voltage DC max.125 VOperating voltage DC max.30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation Connection1	ECLASS-11.1	27060311
Customs tariff number85444290customs tariff number85444290EAN4048879531894EAN4048879531894Packaging unit1Packaging unit1Electrical data Supply1Operating voltage AC max.125 VOperating voltage DC max.125 VOperating voltage DC max.30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation Connection1	ECLASS-12.0	27060311
customs tariff number85444290EAN4048879531894EAN4048879531894Packaging unit1Packaging unit1Electrical data Supply1Operating voltage AC max.125 VOperating voltage DC max.125 VOperating voltage AC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation Connection1	ETIM-5.0	EC001855
EAN4048879531894EAN4048879531894Packaging unit1Packaging unit1Packaging unit1Electrical data Supply125 VOperating voltage AC max.125 VOperating voltage DC max.125 VOperating voltage AC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation Connection	customs tariff number	85444290
EAN4048879531894Packaging unit1Packaging unit1Electrical data Supply125 VOperating voltage AC max.125 VOperating voltage DC max.125 VOperating voltage AC (UL-listed)30 VOperating voltage DC (UL-listed)30 VOperating voltage DC (UL-listed)30 VCurrent operating per contact max.4 AInstallation Connection	customs tariff number	85444290
Packaging unit 1 Packaging unit 1 Packaging unit 1 Electrical data Supply 0 Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection 1	EAN	4048879531894
Packaging unit 1 Electrical data Supply 125 V Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection 125 V	EAN	4048879531894
Electrical data Supply Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection Installation Connection	Packaging unit	1
Operating voltage AC max. 125 V Operating voltage DC max. 125 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection Installation Connection	Packaging unit	1
Operating voltage DC max. 125 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection Installation Connection	Electrical data Supply	
Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection Installation Connection	Operating voltage AC max.	125 V
Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A Installation Connection 4 A	Operating voltage DC max.	125 V
Current operating per contact max. 4 A Installation Connection	Operating voltage AC (UL-listed)	30 V
Installation Connection	Operating voltage DC (UL-listed)	30 V
	Current operating per contact max.	4 A
Gender male	Installation Connection	
	Gender	male

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: 2025-08-04



Device protection | Electrical

Device protection Liectrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	1
Mechanical data Material data	
Material housing	PUR
Coating locking	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.	-30 °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.
	Attention: Observe the permissible bending radii when laving cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
wire arrangement	brown, black, blue, white, green-yellow
Cable identification	161
Jacket Color	yellow
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Filler	yes
wire arrangement	brown, black, blue, white, green-yellow
Cable weigth	103,4 g/m
Material jacket	ТРЕ
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)	7,75 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	5
Outer diameter insulation	1,93 mm
Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation	lead-free, CFC-free
Amount strands (wire)	19
Diameter of single wires	18 AWG
Conductor crosssection (wire)	18 AWG
Material conductor wire	Stranded copper wire, bare
Nominal voltage AC max.	600 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	9 A
Electrical resistance line constant wire	22,5 Ω/km
AC withstand voltage (wire - wire)	4 kV @ 60 s

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: 2025-08-04



Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	105 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	9° 00
Flame resistance	UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (fixed)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
No. of bending cycles (C-track)	10 Mio.
No. of torsion cycles	3 Mio.
Torsion stress	± 180 °/m

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: 2025-08-04