

M12 female 90° A-cod. with cable LED

PUR 5x0.34 bk UL/CSA+robot+drag ch. 20m

Art.No.: 7000-12441-6552000

Weight: 0.706 Country of origin: DE

Model designation: MSDL2-U655_20.0-DS

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:

Zinc die casting, save-cover coated

Female 90°

M12, 5-pole

3× LED (PNP)

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

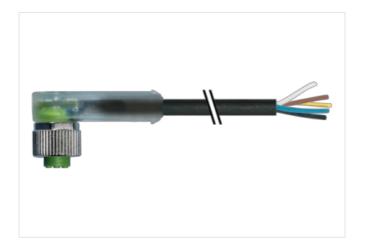
Plastic housings with good resistance against chemicals and oils.

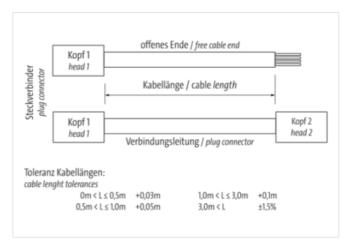
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

Link to Product

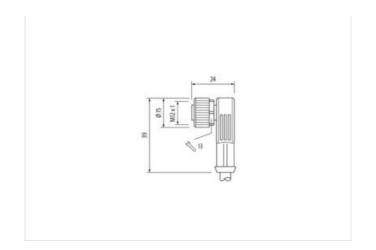
Illustration

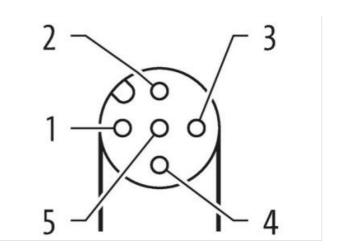


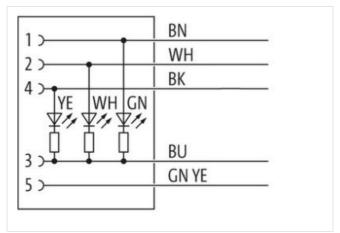




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Product may differ from Image











Cable length	20 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Cable outlet	angled
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Family construction form	free cable end



Commercial data	
	07070040
ECLASS-6.0	27279218
ECLASS-6.1	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
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
customs tariff number	85444290
GTIN	4048879540537
GTIN	4048879540537
Packaging unit	1
Packaging unit	1
Electrical data Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	···
Diagnostics	
Status indication LED	green, white, yellow
Status indication LED Installation Connection	green, white, yellow
	green, white, yellow 20 mm
Installation Connection	
Installation Connection Stripping length (jacket)	20 mm
Installation Connection Stripping length (jacket) Mounting set	20 mm M12 x 1
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical	20 mm M12 x 1 female
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree	20 mm M12 x 1 female inserted, screwed
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree	20 mm M12 x 1 female inserted, screwed 3
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage	20 mm M12 x 1 female inserted, screwed
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1)	20 mm M12 x 1 female inserted, screwed 3
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I safe-cover coated nickel plated
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I safe-cover coated nickel plated Zinc die-casting
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Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I safe-cover coated nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min.	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I safe-cover coated nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
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Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data Mounting data Mounting method Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I safe-cover coated nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection -30 °C 85 °C



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Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
wire arrangement	brown, black, blue, white, green-yellow
Cable identification	655
Cable Type	5
Jacket Color	black
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	41,8 g/m
Material jacket	PUR
Shore hardness jacket	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	5 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	5
Outer diameter insulation	1,25 mm
	·
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	74 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	60 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing DIN EN 60811-404
	Good, application-related testing
Welding spark resistance	
Bending radius (fixed)	5 x Outer diameter
	5 x Outer diameter 10 x Outer diameter
Bending radius (fixed)	
Bending radius (fixed) Bending radius (dynamic)	10 x Outer diameter 10 Mio. @ 25 °C 5 m @ 25 °C horizontal
Bending radius (fixed) Bending radius (dynamic) No. of bending cycles (C-track)	10 x Outer diameter 10 Mio. @ 25 °C
Bending radius (fixed) Bending radius (dynamic) No. of bending cycles (C-track) Traversing distance (C-track)	10 x Outer diameter 10 Mio. @ 25 °C 5 m @ 25 °C horizontal
Bending radius (fixed) Bending radius (dynamic) No. of bending cycles (C-track) Traversing distance (C-track) Travel speed (C-track)	10 x Outer diameter 10 Mio. @ 25 °C 5 m @ 25 °C horizontal 3,3 m/s @ 25 °C