

M12 female 90° A-cod. with cable LED

PVC 5x0.34 bk UL/CSA 3m

Art.No.: 7000-12441-6150300 Weight: 0.172 Country of origin: DE Model designation: MSDL2-U615_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.

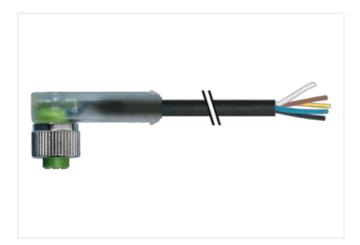
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available <u>on request</u>

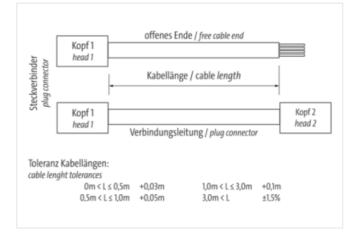
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

Product details: 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

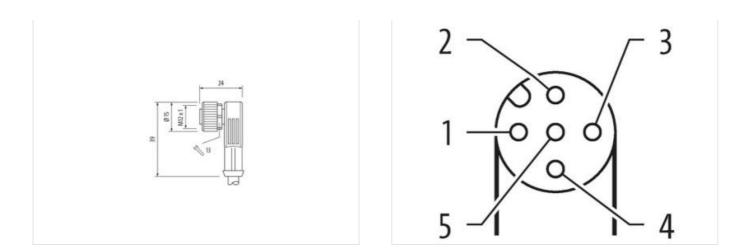


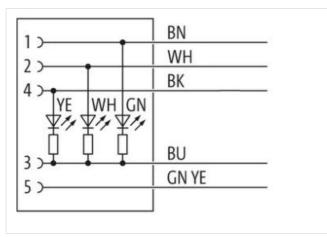


The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-08-09

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com







Product may differ from Image



Cable length	3 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

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: 2025-08-09

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com



Commercial data	
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
EAN	4048879202077
EAN	4048879202077
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	
	· · · · ·
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
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Additional condition protection degree	20 mm M12 x 1 female
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical	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 3 0,8 kV
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 1
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 Nickeled
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 Nickeled 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 Nickeled nickel plated Zinc die-casting
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	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I Nickeled 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 Material screw connection Mechanical data Mounting data	20 mm M12 x 1 female inserted, screwed 3 0,8 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting
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	20 mm M12 x 1 female inserted, screwed 3 0,8 kV I Nickeled nickel plated Zinc die-casting
Installation ConnectionStripping length (jacket)Mounting setGenderDevice protection ElectricalAdditional condition protection degreePollution DegreeRated surge voltageMaterial group (IEC 60664-1)Mechanical data Material dataCoating lockingCoating of fittingLocking materialMaterial screw connectionMechanical data Mounting dataMounting methodEnvironmental characteristics Climatic	20 mm M12 x 1 female inserted, screwed 3 0,8 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Installation ConnectionStripping length (jacket)Mounting setGenderDevice protection ElectricalAdditional condition protection degreePollution DegreeRated surge voltageMaterial group (IEC 60664-1)Mechanical data Material dataCoating lockingCoating of fittingLocking materialMaterial screw connectionMechanical data Mounting dataMounting methodEnvironmental characteristics ClimaticOperating temperature min.	20 mm M12 x 1 female inserted, screwed 3 0,8 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting
Installation ConnectionStripping length (jacket)Mounting setGenderDevice protection ElectricalAdditional condition protection degreePollution DegreeRated surge voltageMaterial group (IEC 60664-1)Mechanical data Material dataCoating lockingCoating of fittingLocking materialMaterial screw connectionMechanical data Mounting dataMounting methodEnvironmental characteristics ClimaticOperating temperature min.Operating temperature max.	20 mm M12 x 1 female inserted, screwed 3 0,8 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -30 °C 85 °C
Installation ConnectionStripping length (jacket)Mounting setGenderDevice protection ElectricalAdditional condition protection degreePollution DegreeRated surge voltageMaterial group (IEC 60664-1)Mechanical data Material dataCoating lockingCoating of fittingLocking materialMaterial screw connectionMechanical data Mounting dataMounting methodEnvironmental characteristics ClimaticOperating temperature max.Additional condition temperature range	20 mm M12 x 1 female inserted, screwed 3 0,8 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -30 °C
Installation ConnectionStripping length (jacket)Mounting setGenderDevice protection ElectricalAdditional condition protection degreePollution DegreeRated surge voltageMaterial group (IEC 60664-1)Mechanical data Material dataCoating lockingCoating of fittingLocking materialMaterial screw connectionMechanical data Mounting dataMounting methodEnvironmental characteristics ClimaticOperating temperature min.Operating temperature max.Additional condition notes	20 mm M12 x 1 female inserted, screwed 3 0,8 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection -30 °C 85 °C depending on cable quality
Installation ConnectionStripping length (jacket)Mounting setGenderDevice protection ElectricalAdditional condition protection degreePollution DegreeRated surge voltageMaterial group (IEC 60664-1)Mechanical data Material dataCoating lockingCoating of fittingLocking materialMaterial screw connectionMechanical data Mounting dataMounting methodEnvironmental characteristics ClimaticOperating temperature max.Additional condition temperature range	20 mm M12 x 1 female inserted, screwed 3 0,8 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -30 °C 85 °C

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: 2025-08-09

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com



Conformity

,	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
wire arrangement	brown, black, blue, white, green-yellow
Cable identification	615
Cable Type	1
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	48,4 g/m
Material jacket	PVC
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5,2 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	5
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	45 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	19
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,34 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
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	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	80 °C
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	DIN EN 60811-404 Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter

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: 2025-08-09