

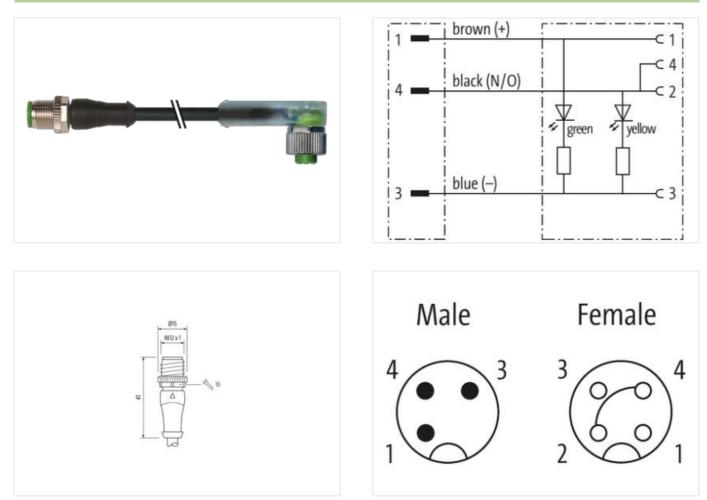
## M12 male 0° / M12 female 90° A-cod. LED

PVC 3x0.34 bk UL/CSA 10m

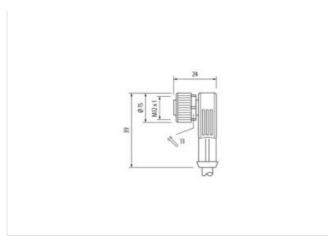
Male straight – female 90° M12 – M12, 3-pole 2× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length	10 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Commercial data	
ECLASS-6.0	27061801
ECLASS-7.0	27061801
ECLASS-8.0	27061801
ECLASS-9.0	27061801
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879769020
Packaging unit	1

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## Electrical data | Supply

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
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0.8 kV
Material group (IEC 60664-1)	
	•
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	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.	-25 °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.
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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
wire arrangement	brown, black, blue
wire arrangement Cable identification	brown, black, blue 613
Cable identification	613
Cable identification Cable Type	613 1
Cable identification Cable Type Jacket Color	613 1 black
Cable identification Cable Type Jacket Color Type of Certificate	613 1 black cURus
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding	613 1 black cURus 1
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding	613 1 black cURus 1 3 wires twisted
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	613 1 black cURus 1 3 wires twisted brown, black, blue
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m   PVC
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m   PVC   85 ± 5 Shore A
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m   PVC   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m   PVC   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   4,6 mm
Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)   Tolerance outer diameter (sheath)	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m   PVC   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   4,6 mm   ± 5 %
Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)   Tolerance outer diameter (sheath)   Material wire insulation	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m   PVC   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   4,6 mm   ± 5 %   PVC
Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)   Tolerance outer diameter (sheath)   Material wire insulation   Amount wires	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m   PVC   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   4,6 mm   ± 5 %   PVC   3
Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)   Tolerance outer diameter (sheath)   Material wire insulation   Amount wires   Outer diameter insulation	613   1   black   cURus   1   3 wires twisted   brown, black, blue   34,1 g/m   PVC   85 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   4,6 mm   ± 5 %   PVC   3   1,25 mm

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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 <sup>2</sup>
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	6 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)	0° 08
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	0° 08
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
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter

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