

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

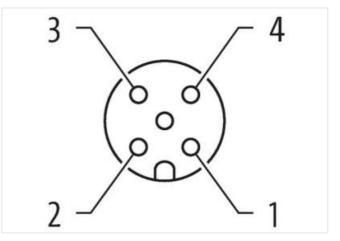
PUR 4x0.34 bk UL/CSA+robot+drag ch. 3m

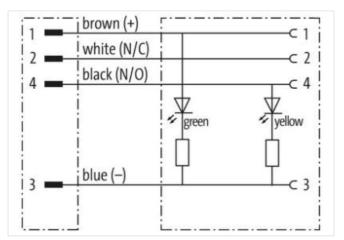
Male straight – female 90° M12 – M12, 4-pole 2× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

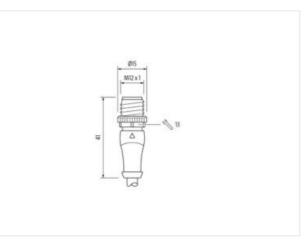
## Link to Product

Illustration



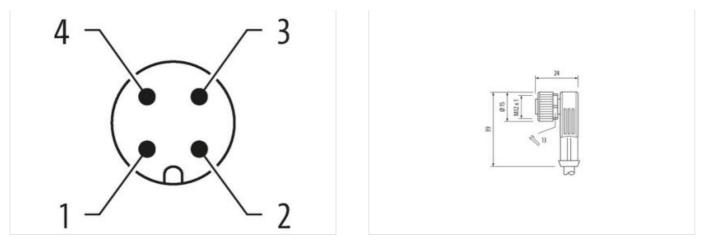






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Product may differ from Image



Cable length	3 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP66K, IP67
Commercial data	
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
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879321822
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V

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Pollution Degree   3     Rated surge voltage   0,8 k     Mechanical data   Material data   Coating of fitting     Coating of fitting   nicke     Material screw connection   Zinc     Mechanical data   Mounting data   Mounting method     Mounting method   inser     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature max.   85 °C     Additional condition temperature range   deperating     Important installation notes   Note on strain relief     Note on bending radius   Atterenda     Installation   Cable   Cable identification     Cable identification   654	rted, screwed
Installation   ConnectionMounting setM12Device protection   ElectricalAdditional condition protection degreeinserPollution Degree3Rated surge voltage0,8 kMechanical data   Material dataCoating of fittingnicketMaterial screw connectionZincMechanical data   Mounting dataMounting methodinserEnvironmental characteristics   ClimaticOperating temperature min25 °Operating temperature max.85 °CAdditional condition temperature rangedepeImportant installation notesNote on strain reliefNote on bending radiusAttegrendaInstallation   CableCable identificationCable identification654	rted, screwed
Mounting set   M12     Device protection   Electrical     Additional condition protection degree   inser     Pollution Degree   3     Rated surge voltage   0,8 k     Mechanical data   Material data      Coating of fitting   nicke     Material screw connection   Zinc     Mechanical data   Mounting data      Mounting method   inser     Environmental characteristics   Climatic      Operating temperature min.   -25 °     Operating temperature max.   85 °C     Additional condition temperature range   dependend     Important installation notes      Note on strain relief   Protection     Note on bending radius   Atter enda     Installation   Cable      Cable identification   654	rted, screwed
Device protection   Electrical     Additional condition protection degree   inser     Pollution Degree   3     Rated surge voltage   0,8 k     Mechanical data   Material data   Coating of fitting     Coating of fitting   nicke     Material screw connection   Zinc     Mechanical data   Mounting data   Mounting method     Mounting method   inser     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature max.   85 °C     Additional condition temperature range   deperation     Important installation notes   Note on strain relief     Note on bending radius   Attendent of the conduction	rted, screwed
Additional condition protection degree   inser     Pollution Degree   3     Rated surge voltage   0,8 k     Mechanical data   Material data      Coating of fitting   nicke     Material screw connection   Zinc     Mechanical data   Mounting data      Mounting method   inser     Environmental characteristics   Climatic      Operating temperature min.   -25 °     Operating temperature max.   85 °C     Additional condition temperature range   dependence     Important installation notes      Note on strain relief   Protection     Note on bending radius   Atterenda     Installation   Cable      Cable identification   654	el plated die-casting rted, screwed, Shaking protection
Pollution Degree   3     Rated surge voltage   0,8 k     Mechanical data   Material data   0     Coating of fitting   nicke     Material screw connection   Zinc     Mechanical data   Mounting data   0     Mounting method   inser     Environmental characteristics   Climatic   0     Operating temperature min.   -25 °     Operating temperature max.   85 °C     Additional condition temperature range   deperation     Important installation notes   Note on strain relief     Note on bending radius   Atterenda     Installation   Cable   Cable identification	el plated die-casting rted, screwed, Shaking protection
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Mechanical data   Material data     Coating of fitting   nicke     Material screw connection   Zinc     Mechanical data   Mounting data   Inser     Mounting method   inser     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature max.   85 °C     Additional condition temperature range   depered     Important installation notes   Note on strain relief     Note on bending radius   Attendent and attendent attend	el plated die-casting rted, screwed, Shaking protection C
Coating of fitting   nicke     Material screw connection   Zinc     Mechanical data   Mounting data   Insert     Mounting method   insert     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature max.   85 °C     Additional condition temperature range   deperation     Important installation notes   Note on strain relief     Note on bending radius   Attendent of the endation     Installation   Cable   Cable identification	die-casting rted, screwed, Shaking protection C
Material screw connection   Zinc     Mechanical data   Mounting data   Mounting method     Mounting method   inser     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature max.   85 °C     Additional condition temperature range   deperation     Important installation notes   Note on strain relief     Note on bending radius   Attenden and and and and and and and and and an	die-casting rted, screwed, Shaking protection C
Mechanical data   Mounting data     Mounting method   inser     Environmental characteristics   Climatic   0     Operating temperature min.   -25 °     Operating temperature max.   85 °C     Additional condition temperature range   deper     Important installation notes   1     Note on strain relief   Protection     Note on bending radius   Attendentation     Installation   Cable   1     Cable identification   654	rted, screwed, Shaking protection
Mounting method   inser     Environmental characteristics   Climatic   0     Operating temperature min.   -25 °     Operating temperature max.   85 °C     Additional condition temperature range   deper     Important installation notes   1     Note on strain relief   Protection     Note on bending radius   Attendential     Installation   Cable   1     Cable identification   654	рос С
Environmental characteristics   Climatic     Operating temperature min.   -25 °     Operating temperature max.   85 °C     Additional condition temperature range   deperating temperature max.     Important installation notes   Important installation notes     Note on strain relief   Protection     Note on bending radius   Attenden data     Installation   Cable   Cable identification	рос С
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Operating temperature min.   -25 °     Operating temperature max.   85 °C     Additional condition temperature range   depe     Important installation notes   Important installation notes     Note on strain relief   Prote     Note on bending radius   Attended     Installation   Cable   Cable identification	C
Operating temperature max.   85 °C     Additional condition temperature range   deperation     Important installation notes   Important installation notes     Note on strain relief   Protection     Note on bending radius   Attended     Installation   Cable   Cable identification     Cable identification   654	C
Additional condition temperature range   deperation     Important installation notes   Important installation notes     Note on strain relief   Prote     Note on bending radius   Attende     Installation   Cable   Cable identification	
Important installation notes     Note on strain relief   Prote     Note on bending radius   Attended     Installation   Cable   Cable identification	enaing on cable quality
Note on strain relief Prote   Note on bending radius Attended   Installation   Cable Cable identification	
Note on bending radiusAttendedInstallation   CableCable identification654	
Installation   Cable Cable identification 654	ect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Cable identification 654	ntion: Observe the permissible bending radii when laying cables, as the IP protection class can be angered by excessive bending forces.
Cable Type 5	
Jacket Color black	κ
Type of Certificate cURt	US
Amount stranding 1	
Stranding 4 wir	res twisted
wire arrangement brow	rn, black, blue, white
Cable weigth 36,3	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) 4,7 n	nm
Tolerance outer diameter (sheath) ± 5 %	%
Material wire insulation PP	
Amount wires 4	
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 n	nm
Conductor crosssection (wire) 0,34	mm <sup>2</sup>
Material conductor wire Strar	nded copper wire, bare
Conductor type (wire) stran	nd class 6
Traversing distance (C-track) 5 m (	@ 25 °C   horizontal
Nominal voltage AC max. 300 V	V
Current load capacity (standard) to DI	
Current load capacity min. wire 4,8 A	N VDE 0298-4
Electrical resistance line constant wire 60 Ω	

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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	UL 1581 § 1100 FT2   IEC 60332-2-2   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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min

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