

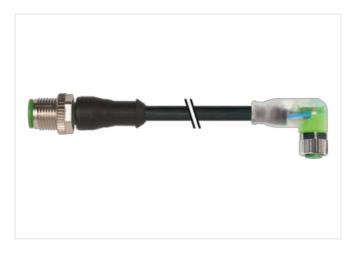
## M12 male 0° / M8 female 90° A-cod. LED

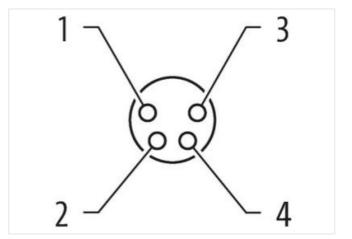
PUR 4x0.25 bk UL/CSA+drag ch. 2.5m

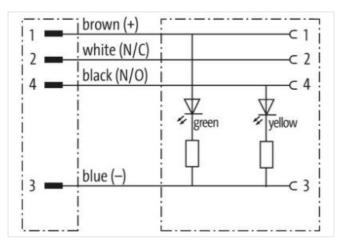
Male straight – female 90° M12 – M8, 4-pole 2× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

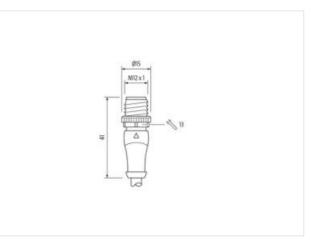
## Link to Product

Illustration



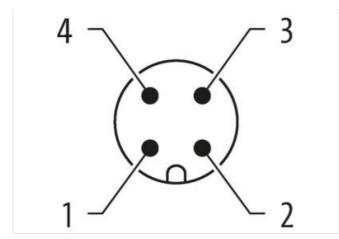


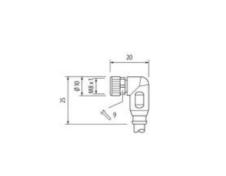




The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-14







Product may differ from Image



Cable length	2,5 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)	IP66K, IP67
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal Ø)	6,5 mm
Coding	A
Material	PUR
Width across flats	SW9
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	4048879600811
Packaging unit	1

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## Electrical data | Supply

Operating voltage DC   24 V     Operating voltage DC min.   18 V     Operating voltage DC max.   30 V     Operating voltage DC max.   4 A     Diagnostics   Status indication LED     Status indication LED   green, yellow     Device protection   Electrical   Additional condition protection degree     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   1     Mechanical data   Material data   Coating of litting     Coating of litting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   Mounting method     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature min.   -25 °C     Operating temperature min.   -25 °C   Operating temperature max.   80 °C     Additional condition temperature range   depending on cable quality   Important installation notes     Note on strain relief   Protect the connectors by suitable measures fr	
Operating voltage DC max.   30 V     Operating voltage DC max.   4 A     Diagnostics   Status indication LED     Status indication LED   green, yellow     Device protection   Electrical   Additional condition protection degree     Additional condition protection degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   I     Mechanical data   Material data   Coating locking     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     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature max.     Mote on stain relief   Protect the connectors by suitable measures fror     Note on bending radius   Attention: Observe the permissible bending radius     Conformity   Product standard     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-11     Installation   Cable   Cable identification     Cable identification   631	
Operating voltage DC max. (UL-listed)     30 V       Current operating per contact max.     4 A       Diagnostics     green, yellow       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     3       Rated surge voltage     0.8 kV       Material group (IEC 60664-1)     1       Mechanical data   Material data     Coating locking       Coating locking     Nickeled       Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature max.     80 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Note on strain relief       Note on strain relief     Protect the connectors by suitable measures fror       Note on bending radius     Attention: Observe the permissible bending radius       Conformity     Gable identification       Product standard     DIN EN 61076-2-101 (M	
Current operating per contact max.   4 A     Diagnostics     Status indication LED   green, yellow     Device protection   Electrical     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0.8 kV     Material group (IEC 60664-1)   1     Mechanical data   Material data   Coating locking     Coating locking   Nickeled     Coating up of thing   nickel plated     Locking material   Zinc die-casting     Mechanical data   Mounting data   Mounting method     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature max.     Operating temperature max.   80 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Note on strain relief   Protect the connectors by suitable measures fror     Note on strain relief   Din En 61076-2-101 (M12), DIN EN 61076-2-111   Installation [ Cable     Coalormity   Enclassing   Attention: Observe the permissible bending radio     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-111   Install	
Diagnostics     Status indication LED   green, yellow     Device protection   Electrical	
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Pollution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   I     Mechanical data   Material data   Coating locking     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     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature max.     Operating temperature max.   80 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Note on strain relief     Note on strain relief   Protect the connectors by suitable measures fror     Note on bending radius   Attention: Observe the permissible bending forces.     Conformity   E     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-111     Installation   Cable   Cable identification     Cable identification   631     Cable identificate   cURus     Amount stranding   1     Stranding   4	
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Coating locking   Nickeled     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   Inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature min.   -25 °C     Operating temperature max.   80 °C   Additional condition temperature range   depending on cable quality     Important installation notes   Note on strain relief   Protect the connectors by suitable measures fror     Note on strain relief   Protect the connectors by suitable bending radiangered by excessive bending forces.     Conformity   Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-11     Installation   Cable   Cable identification   631     Cable identification   631   Cable Type     Jacket Color   black   Type of Certificate   cURus     Amount stranding   1   Stranding   4 wires twisted     wire arrangement   brown, black, blue, white   Traversing distance (C-track)   10 m @ 25 °C   horizontal     Cable weigth   33 g/m   Material jacket   PUR     Shore hardness jacket   9	
Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   Inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature min.   -25 °C     Operating temperature max.   80 °C   Additional condition temperature range   depending on cable quality     Important installation notes   Note on strain relief   Protect the connectors by suitable measures fror     Note on bending radius   Attention: Observe the permissible bending radie endangered by excessive bending forces.     Conformity   Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-11     Installation   Cable   Cable identification   631     Cable identification   631   Gable Color     Type of Certificate   cURus   Amount stranding     Amount stranding   1   Stranding   4 wires twisted     wire arrangement   brown, black, blue, white   Traversing distance (C-track)   10 m @ 25 °C   horizontal     Cable weigth   33 g/m   Material jacket   PUR   Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-f	
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Operating temperature min.   -25 °C     Operating temperature max.   80 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Important installation notes     Note on strain relief   Protect the connectors by suitable measures from     Note on bending radius   Attention: Observe the permissible bending radiendangered by excessive bending forces.     Conformity   Product standard     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-11     Installation   Cable   Cable identification     Cable identification   631     Cable Type   3     Jacket Color   black     Type of Certificate   cURus     Amount stranding   1     Stranding   4 wires twisted     wire arrangement   brown, black, blue, white     Traversing distance (C-track)   10 m @ 25 °C   horizontal     Cable weigth   33 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,5 mm	
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Conformity   endangered by excessive bending forces.     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-11     Installation   Cable   Cable identification     Cable identification   631     Cable Type   3     Jacket Color   black     Type of Certificate   cURus     Amount stranding   1     Stranding   4 wires twisted     wire arrangement   brown, black, blue, white     Traversing distance (C-track)   10 m @ 25 °C   horizontal     Cable weigth   33 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,5 mm	mechanical loads, e.g. by the usage of cable ties.
Product standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-11Installation   CableCable identification631Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteTraversing distance (C-track)10 m @ 25 °C   horizontalCable weigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)4,5 mm	when laying cables, as the IP protection class can be
Installation   CableCable identification631Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementbrown, black, blue, whiteTraversing distance (C-track)10 m @ 25 °C   horizontalCable weigth33 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-freeOuter-diameter (jacket)4,5 mm	
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Cable Type   3     Jacket Color   black     Type of Certificate   cURus     Amount stranding   1     Stranding   4 wires twisted     wire arrangement   brown, black, blue, white     Traversing distance (C-track)   10 m @ 25 °C   horizontal     Cable weigth   33 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,5 mm	
Jacket Color   black     Type of Certificate   cURus     Amount stranding   1     Stranding   4 wires twisted     wire arrangement   brown, black, blue, white     Traversing distance (C-track)   10 m @ 25 °C   horizontal     Cable weigth   33 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,5 mm	
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wire arrangement   brown, black, blue, white     Traversing distance (C-track)   10 m @ 25 °C   horizontal     Cable weigth   33 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,5 mm	
Traversing distance (C-track)   10 m @ 25 °C   horizontal     Cable weigth   33 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,5 mm	
Cable weigth 33 g/m   Material jacket PUR   Shore hardness jacket 90 ± 5 Shore A   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free   Outer-diameter (jacket) 4,5 mm	
Material jacket PUR   Shore hardness jacket 90 ± 5 Shore A   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free   Outer-diameter (jacket) 4,5 mm	
Shore hardness jacket 90 ± 5 Shore A   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free   Outer-diameter (jacket) 4,5 mm	
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free   Outer-diameter (jacket) 4,5 mm	
Outer-diameter (jacket) 4,5 mm	
Tolerance outer diameter (sheath) ± 5 %	silicone-free
	silicone-free
Material wire insulation PP	silicone-free
Amount wires 4	silicone-free
Outer diameter insulation 1,25 mm	silicone-free
Outer diameter tolerance core insulation ± 5 %	silicone-free
Shore hardness wire insulation 70 ± 5 Shore D	silicone-free
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free	

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Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,25 mm <sup>2</sup>
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	3,6 A
Electrical resistance line constant wire	79 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	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
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	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min

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