

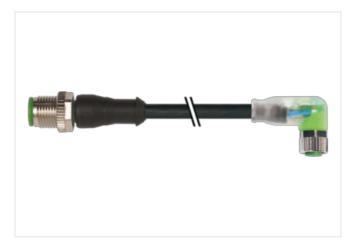
## M12 male 0° / M8 female 90° A-cod. LED

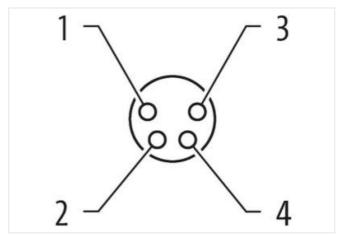
PUR 4x0.25 bk UL/CSA+drag ch. 7.5m

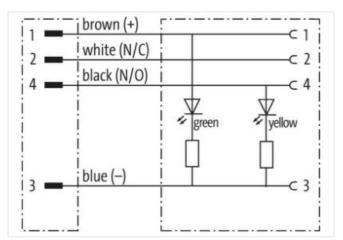
Male straight – female 90° M12 – M8, 4-pole 2× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details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

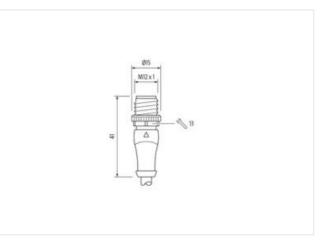
## Link to Product

Illustration



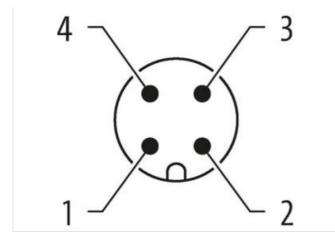


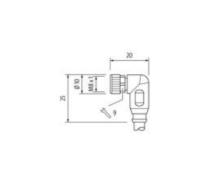




The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-04







Product may differ from Image



Cable length	7,5 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	4048879810333
Packaging unit	1

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: 2024-05-04



## 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
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)	
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.	80 °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.
•	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. <b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on strain relief Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on strain relief Note on bending radius Conformity	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief Note on bending radius Conformity Product standard	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type Jacket Color	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   631   3   black   cURus   1   4 wires twisted
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal
Note on strain relief Note on bending radius Conformity Product standard Installation   Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR   90 ± 5 Shore A
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR   90 ± 5 Shore A   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable Identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR   90 ± 5 Shore A   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   4,5 mm
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)   Tolerance outer diameter (sheath)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR   90 ± 5 Shore A   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   4,5 mm   ± 5 %
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)   Tolerance outer diameter (sheath)   Material wire insulation	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR   90 ± 5 Shore A   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   4,5 mm   ± 5 %   PP
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   Cable weigth   Material jacket   Shore hardness jacket   Freedom from ingredients (jacket)   Outer-diameter (jacket)   Tolerance outer diameter (sheath)   Material wire insulation   Amount wires	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR   90 ± 5 Shore A   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   4,5 mm   ± 5 %   PP   4
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR   90 ± 5 Shore A   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   4,5 mm   ± 5 %   PP   4   1,25 mm
Note on strain relief   Note on bending radius   Conformity   Product standard   Installation   Cable   Cable identification   Cable identification   Cable Type   Jacket Color   Type of Certificate   Amount stranding   Stranding   wire arrangement   Traversing distance (C-track)   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   Outer diameter insulation	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)   631   3   black   cURus   1   4 wires twisted   brown, black, blue, white   10 m @ 25 °C   horizontal   33 g/m   PUR   90 ± 5 Shore A   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   4,5 mm   ± 5 %   PP   4   1,25 mm   ± 5 %

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: 2024-05-04



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

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: 2024-05-04