

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

PVC 4x0.34 gy UL/CSA 12m

Male straight – female 90° M12 – M12, 4-pole 3× LED (PNP), (NPN) on request

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

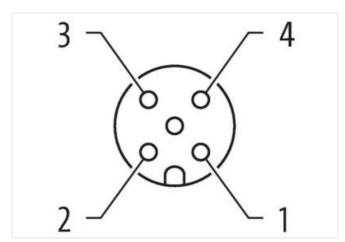
Plastic housings with good resistance against chemicals and oils.

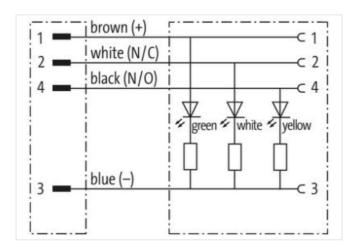
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

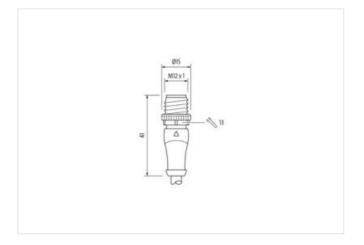
## **Link to Product**

## Illustration



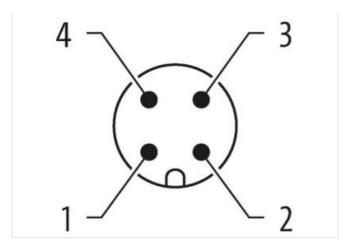


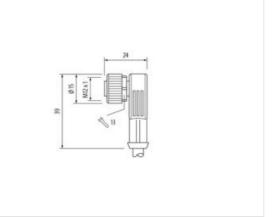






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Product may differ from Image











Cable length	12 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
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
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, 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	4048879421539
Packaging unit	1
Electrical data   Supply	



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Operating voltage DC	24.V
	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
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
Operating temperature max.  Additional condition temperature range	85 °C  depending on cable quality
Additional condition temperature range	
Additional condition temperature range  Conformity	depending on cable quality
Additional condition temperature range  Conformity  Product standard  Installation   Cable	depending on cable quality  DIN EN 61076-2-101 (M12)
Additional condition temperature range  Conformity  Product standard  Installation   Cable  Cable identification	depending on cable quality
Additional condition temperature range  Conformity  Product standard  Installation   Cable	depending on cable quality  DIN EN 61076-2-101 (M12)  214 1
Additional condition temperature range  Conformity  Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color	depending on cable quality  DIN EN 61076-2-101 (M12)  214
Additional condition temperature range  Conformity  Product standard  Installation   Cable  Cable identification  Cable Type	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1 gray
Additional condition temperature range  Conformity  Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus
Additional condition temperature range  Conformity  Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1
Additional condition temperature range  Conformity  Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1 gray cURus 1 4 wires twisted
Additional condition temperature range  Conformity  Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted  brown, black, blue, white
Additional condition temperature range  Conformity  Product standard  Installation   Cable  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted  brown, black, blue, white  40,7 g/m
Additional condition temperature range  Conformity  Product standard  Installation   Cable  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)	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1 gray cURus 1 4 wires twisted brown, black, blue, white 40,7 g/m PVC
Additional condition temperature range  Conformity  Product standard  Installation   Cable  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)	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1 gray cURus 1 4 wires twisted brown, black, blue, white  40,7 g/m PVC  85 ± 5 Shore A
Additional condition temperature range  Conformity  Product standard  Installation   Cable  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)	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted  brown, black, blue, white  40,7 g/m  PVC  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free
Additional condition temperature range  Conformity  Product standard  Installation   Cable  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)	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted  brown, black, blue, white  40,7 g/m  PVC  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5 mm
Additional condition temperature range  Conformity  Product standard  Installation   Cable  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)	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted  brown, black, blue, white  40,7 g/m  PVC  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5 mm  ± 5 %
Additional condition temperature range  Conformity  Product standard  Installation   Cable  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	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1 gray  cURus  1 4 wires twisted  brown, black, blue, white  40,7 g/m  PVC  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5 mm  ± 5 %  PVC
Additional condition temperature range  Conformity  Product standard  Installation   Cable  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	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted  brown, black, blue, white  40,7 g/m  PVC  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5 mm  ± 5 %  PVC  4  1,25 mm  ± 5 %
Additional condition temperature range  Conformity  Product standard  Installation   Cable  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	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1 gray cURus  1 4 wires twisted brown, black, blue, white 40,7 g/m PVC 85 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5 mm  ± 5 % PVC 4 1,25 mm
Conformity Product standard Installation   Cable 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 tolerance core insulation Shore hardness wire insulation Material properties wire insulation	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted brown, black, blue, white  40,7 g/m  PVC  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5 mm  ± 5 %  PVC  4  1,25 mm  ± 5 %  45 ± 5 Shore D  good machinability
Conformity Product standard Installation   Cable 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 tolerance core insulation Shore hardness wire insulation Material properties wire insulation Ingredient freeness wire insulation	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted brown, black, blue, white  40,7 g/m  PVC  85 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free  5 mm  ± 5 %  PVC  4  1,25 mm  ± 5 %  45 ± 5 Shore D good machinability lead-free, cadmium-free, CFC-free, silicone-free
Conformity Product standard Installation   Cable 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 tolerance core insulation Shore hardness wire insulation Material properties wire insulation	depending on cable quality  DIN EN 61076-2-101 (M12)  214  1  gray  cURus  1  4 wires twisted brown, black, blue, white  40,7 g/m  PVC  85 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5 mm  ± 5 %  PVC  4  1,25 mm  ± 5 %  45 ± 5 Shore D  good machinability



Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
Nominal voltage power AC max.	300 V
Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
AC withstand voltage power (wire - wire)	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
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