

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

PUR 4x0.34 bk UL/CSA+robot+drag ch. 2m

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

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

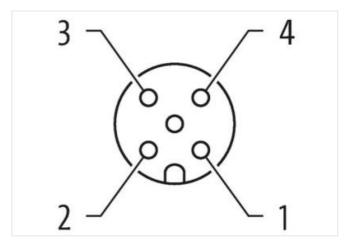
Plastic housings with good resistance against chemicals and oils.

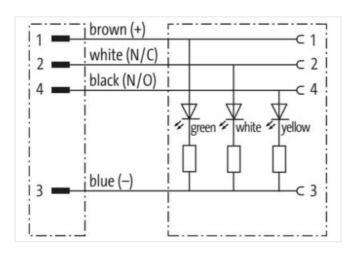
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

Link to Product

Illustration



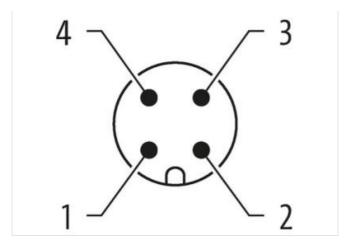


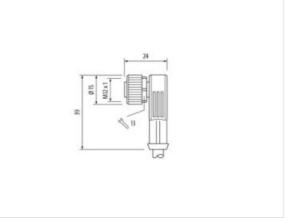






stay connected





Product may differ from Image











Cable length	2 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 \emptyset)	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 \emptyset)	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	4048879169271
Packaging unit	1
Electrical data Supply	

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: 2024-05-20



stay connected

portating voltage DC min. 19 V perating voltage DC min. 19 V perating voltage DC mix. (UI-leated) 30 V perating voltage DC mix. (UI-leated) 30 V perating voltage DC mix. (UI-leated) 30 V presenting locking DC mix. (UI-leated) 30 V presenting locking protection degree on the voltage DC mix. (UI-leated) 30 V presenting locking DC	Operating voltage DC	a.v.
Spearating voltage DC max. Silv		24 V
Secretary strategy of the act (UL-listed) 30 V		
Disposition Dispos		
Diagnostics Islantia ridication LED green, while, yellow Installation Connection Islantia ridication Connection Islantia ridication Islantia Isla		
Installation Connection C	Current operating per contact max.	4 A
Installation Connection Mounting set M12 x 1 Device protection Electrical diditional condition protection degree insented, screwed related surge voltage 0,8 kV Material group (IEC 80684-1) I Mechanical data Material data Solating locking of litting nickel plated coating nethrold insented at a Mounting data Nounting method insented, screwed, Shaking protection Environmental characteristics Climatic Departing temperature min. 25 °C Departing temperature max. 85 °C diditional condition temperature range depending on cable quality Important installation notes Volte on shain rolled Protect the connectors by suitable measures from mechanical coats, e.g., by the usage of cable lies Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be entangened by exceesive bending forces. Conformity Troduct standard DIN En 81076-2-101 (M12) Installation Cable Listed on the conformatic plate of the connection	Diagnostics	
Device protection Electrical dictional condition protection degree inserted, screwed collution Degree 3 lated surge votage 0,8 kV laterial group (IEC 60684+1) 1 Mochanical data Material data Coeing of letting nickel plated coeing of filting nickel plated coeing nickel plate	Status indication LED	green, white, yellow
Device protection Electrical deditional condition protection degree inserted, screwed district surge voltage 0,8 kV deterrial group (IEC 60684-1) Mechanical data Material data Sozialing of fitting sale-cover coated obeing of fitting nickel plated Obeing of fitting nickel plated Obeing anderial Sozialing of fitting nickel plated Obeing of fitting nickel plated Obeing method nicerted, screwed, Shaking protection Environmental characteristics Climatic Departing temporature min. 25 °C Operating temperature max. 85 °C Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Conformity Troduct standard Sole Sale definition Cable Sale definition Cabl	Installation Connection	
cilutional condition protection degree inserted, screwed solution Degree 3 stated surge voltage 0,8 kV stated surge voltage 0,8 kV stated surge voltage 10,0 kV stated 10,0 kV st	Mounting set	M12 x 1
Interest proper voltage 0.8 kV Mechanical data Material data Soating oloking sie-cover coated Soating of fitting nickel plated Soating nickel plated Soa	Device protection Electrical	
Alterial group (IEC 60664-1) Alterial group (IEC 60664-1) Indechanical data [Material data Coating of fitting clocking safe-cover coated Coating of fitting clocking naterial Zinc die-casting Mechanical data [Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic ### Coating and Coating	Additional condition protection degree	inserted, screwed
Mechanical data Material dat	Pollution Degree	3
Mechanical data Material data Safe-cover coated Safe-coated Safe	Rated surge voltage	0,8 kV
saling locking safe-cover coated ocking material ricker plated ricker plated ocking material zinc die-casting detarial screw connection zinc die-casting detarial screw connection zinc die-casting detarial screw connection inserted, screwed, Shaking protection connection control parating temperature min. 25 °C objecting temperature min. 25 °C objecting temperature man. 25 °C objecting temperatu	Material group (IEC 60664-1)	1
incket plated Zinc die-casting Attendis crew connection Zinc die-casting Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Diperating temperature min. -25 °C -2	Mechanical data Material data	
incket plated Zinc die-casting Attendis crew connection Zinc die-casting Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Diperating temperature min. -25 °C -2	Coating locking	safe-cover coated
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Conformity Froduct standard Discribing a sket Color Baket Tope Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Conformity Froduct standard DIN EN 61076-2-101 (M12) Installation Cable Install	Coating of fitting	
Mechanical data Mounting data Mounting method Inserted, screwed, Shaking protection	Locking material	· · · · · · · · · · · · · · · · · · ·
inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min. -25 °C Operating temperature max. 85 °C diditional condition temperature range depending on cable quality Important installation notes Uote on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. 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 Cable identification 654 Cable Type 5 Cacket Color black Yoge of Certificate Culflus Amount stranding 1 Stranding 4 wires twisted brown, black, blue, white Cable weight 36.3 g/m Attential jacket PUR Shore hardness jacket 58 ± 3 Shore D Freedom from ingredients (jacket) Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Witter diameter (jacket) 4.7 mm Oolerance outer diameter (sheath) 25 % Moter diameter folerance core insulation 74 ± 3 Shore D Force diameter insulation 74 ± 3 Shore D Force hardness wire insulation 74 ± 3 Shore D Force diameter folerance core insulation 74 ± 3 Shore D	Material screw connection	
inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min. -25 °C Operating temperature max. 85 °C diditional condition temperature range depending on cable quality Important installation notes Uote on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. 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 Cable identification 654 Cable Type 5 Cacket Color black Yoge of Certificate Culflus Amount stranding 1 Stranding 4 wires twisted brown, black, blue, white Cable weight 36.3 g/m Attential jacket PUR Shore hardness jacket 58 ± 3 Shore D Freedom from ingredients (jacket) Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Witter diameter (jacket) 4.7 mm Oolerance outer diameter (sheath) 25 % Moter diameter folerance core insulation 74 ± 3 Shore D Force diameter insulation 74 ± 3 Shore D Force hardness wire insulation 74 ± 3 Shore D Force diameter folerance core insulation 74 ± 3 Shore D	Mechanical data Mounting data	
Environmental characteristics Climatic Operating temperature min.		inserted screwed Shaking protection
perating temperature min. 25 °C perating temperature max. 85 °C perating temperature remax. 85 °C perating t		
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 Sable Type 5 Sable Type 5 Sate of Curificate CURus Whomat stranding 1 Stranding 4 wires twisted Streading 5 Sate of Ardness jacket PUR Stored on from ingredients (jacket) During diameter (sheath) ±5 % Stater of whomat strandion 1,25 mm Duter diameter tolerance core insulation 1,25 mm Store hardness wire insulation 1,25 mm Store hardness wire insulation 1,25 mm Store hardness wire insulation 74 ± 3 Shore D	•	05.00
depending on cable quality Important installation notes Idee on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Atention: 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 Jable identification 654 Jable Type 5 Jacket Color black Japle Octrificate cURUs Jarding 4 wires twisted Jarding 4 wires twisted Jarding 4 wires twisted Jarding 4 wires twisted Jarding 58 ± 3 Shore D Jardines jacket PUR Jardines jacket Jacket Jacket Jacket Golor Jac		
Inportant installation notes Jote on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. 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 Jable identification 654 Jable identification 654 Jable identification 654 Jable Type 5 Jacket Color black Jable Type 5 Jacket Color black Jable Type 1 Jacket Color black Javier arrangement brown, black, blue, white 1 Jable weigth 36.3 g/m Jaterial jacket PUR Jacket Color black blue, white 1 Jacket Color black blue,		
Attention: Observe the permissible measures from mechanical loads, e.g. by the usage of cable ties. 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 Sable identification 654 Sable Type 5 sacket Color black Yeo of Certificate cURus Umount stranding 1 Stranding 4 wires twisted Sable weigth 36,3 g/m Attential jacket PUR Sable weigth 58 ± 3 Shore D Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Jouer-diameter (jacket) 4,7 mm Jouer and Jouer diameter (sheath) 1,25 mm Jouer diameter insulation 1,25 mm Jouer diameter insulation 74 ± 3 Shore D Jouer diameter insulation 74 ± 3 Shore D		depending on cable quality
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 Sable identification 654 Sable identification 654 Sable of Color black Specificate cURUs Simuount stranding 1 Stranding 4 wires twisted Sable weigth 36,3 g/m Material jacket PUR Shore hardness jacket 58 ± 3 Shore D Irrectom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Jouer-diameter (jacket) 4,7 mm Jouer diameter (sheath) ± 5 % Material wire insulation 1,25 mm Jouer diameter tolerance core insulation 54 ± 3 Shore D Jouer diameter tolerance core insulation 54 ± 3 Shore D Jouer diameter tolerance core insulation 74 ± 3 Shore D Jouer diameter tolerance core insulation 74 ± 3 Shore D		
endangered by excessive bending forces. Conformity Product standard DIN EN 61076-2-101 (M12) Installation Cable Cable identification 654 Cable Type 5 Cacket Color black Ype of Certificate cURus Amount stranding 1 Stranding 4 wires twisted Fire arrangement brown, black, blue, white Cable weighh 36.3 g/m Material jacket PUR Shore hardness jacket 58 ± 3 Shore D Treedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Jouer-diameter (jacket) 4.7 mm Jouer diameter (sheath) ± 5 % Jouer diameter insulation PP Jouer diameter insulation 1,25 mm Jouer diameter tolerance core insulation 57 4 ± 3 Shore D Jouer diameter tolerance core insulation 74 ± 3 Shore D Jouer diameter tolerance core insulation 74 ± 3 Shore D	Note on strain relief	
roduct standard DIN EN 61076-2-101 (M12) Installation Cable Cable identification 654 Cable identification 55 Cacket Color black Type of Certificate cURus Amount stranding 1 Carranding 4 wires twisted For earrangement brown, black, blue, white Cable weigth 36,3 g/m Alaterial jacket PUR Foredom from ingredients (jacket) 1ead-free, cadmium-free, CFC-free, halogen-free Foredom from ingredients (jacket) 4,7 mm Forelameter (jacket) 4,7 mm Forelameter insulation PP Forelameter diameter (sheath) 2.5 mm Forelameter diameter (sheath) 1,25 mm Forelameter diameter or insulation 1,25 mm Forelameter tolerance core insulation 4 ± 5 % Forelameter diameter tolerance core insulation 574 ± 3 Shore D Forelameter insulation 74 ± 3 Shore D	Note on bending radius	
Cable identification 654 Cable identification 654 Cable Type 5 Cable Type 5 Cable Type 5 Cable Color black Cype of Certificate cURus Cype of Certificate cURus Cype of Certificate current Cype of Certificate Cype of	Conformity	
Sable identification 654 Sable Type 5 acket Color black type of Certificate cURus imount stranding 1 stranding 4 wires twisted vire arrangement brown, black, blue, white Sable weigth 36,3 g/m Alterial jacket PUR Shore hardness jacket 58 ± 3 Shore D reedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free outer-diameter (jacket) 4,7 mm folerance 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	Product standard	DIN EN 61076-2-101 (M12)
Scable Type 5 acket Color black Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted Avire arrangement brown, black, blue, white Scable weigth 36,3 g/m Atterial jacket PUR Schore hardness jacket 58 ± 3 Shore D Screedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Souter-diameter (jacket) 4,7 mm Solerance outer diameter (sheath) ± 5 % Atterial wire insulation PP Amount wires 4 Souter diameter insulation 1,25 mm Souter diameter tolerance core insulation 74 ± 3 Shore D Schore hardness wire insulation 74 ± 3 Shore D	Installation Cable	
acket Color black type of Certificate cURus type of Certificate cURus type of Certificate cURus type of Certificate cURus type of Certificate curve cu	Cable identification	654
cure of Certificate cure o	Cable Type	5
Amount stranding 1 Stranding 4 wires twisted vire arrangement brown, black, blue, white Stable weigth 36,3 g/m Material jacket PUR Shore hardness jacket 58 ± 3 Shore D Greedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,7 mm Folerance 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	Jacket Color	black
A wires twisted wire arrangement brown, black, blue, white Sable weigth 36,3 g/m Material jacket PUR Shore hardness jacket 58 ± 3 Shore D Greedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free Subter-diameter (jacket) 4,7 mm Folerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Subter diameter insulation 1,25 mm Subter diameter tolerance core insulation 74 ± 3 Shore D	Type of Certificate	cURus
brown, black, blue, white Sable 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) A,7 mm Folerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 4 ± 3 Shore D Shore hardness wire insulation 74 ± 3 Shore D	Amount stranding	1
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 mm Folerance 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	Stranding	4 wires twisted
Material jacket PUR Shore hardness jacket 58 ± 3 Shore D Greedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,7 mm Golerance 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	wire arrangement	brown, black, blue, white
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 mm Folerance 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	Cable weigth	36,3 g/m
Freedom from ingredients (jacket) Lead-free, cadmium-free, CFC-free, halogen-free Louter-diameter (jacket) Lead-free, cadmium-free, CFC-free, halogen-free Louter-diameter (sheath) Louter diameter (sheath) Louter diameter insulation Louter diameter insulation Louter diameter tolerance core insulation Louter diameter tolerance core insulation Louter diameter insulation Louter diameter insulation Louter diameter insulation Louter diameter tolerance core insulation Louter diameter insulation	Material jacket	PUR
Outer-diameter (jacket) 4,7 mm Folerance 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	Shore hardness jacket	58 ± 3 Shore D
Folerance 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	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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	Outer-diameter (jacket)	•
Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D	Amount wires	
Shore hardness wire insulation 74 ± 3 Shore D	Outer diameter insulation	· · · · · · · · · · · · · · · · · · ·
	Outer diameter tolerance core insulation	
ngredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Shore hardness wire insulation	74 ± 3 Shore D

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: 2024-05-20



stay connected

Amount strands (wire)	42
Diameter of single wires	0.1 mm
Conductor crosssection (wire)	0,34 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C horizontal
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Electrical resistance line constant wire	60 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 § 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