

## M12 female 90° A-cod. with cable LED

PUR 4x0.34 bk UL/CSA+robot+drag ch. 25m

Female 90° Zinc die casting, save-cover coated M12, 4-pole 3× LED (PNP)

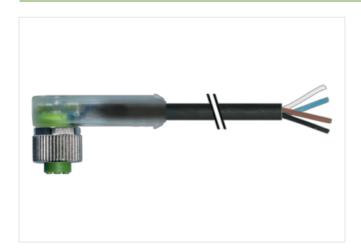
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

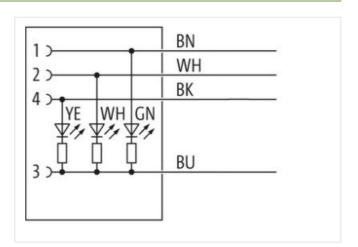
Plastic housings with good resistance against chemicals and oils.

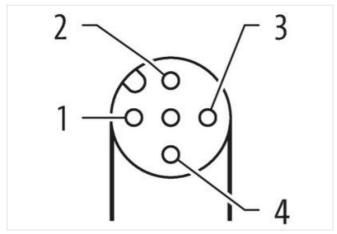
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

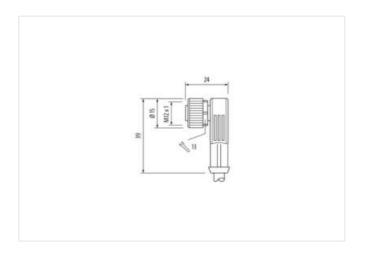
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

25 m

Side 1



stay connected

Family construction form M12 Thread M12 x 1 suitable for compagied tube (internal 0) 10 mm Coding A Material PUR With accoss flats SW13 Degree of protection (ENIEC 60528) P956, 1967, 1967 Commercial data EQUASS-0 2779218 EGLASS-6 0 2779218 EGLASS-7 2779218 EGLASS-7 2779218 EGLASS-8 0 2779218 EGLASS-1 1 2779218 EGLASS-1 2779218	Tightening torque	0,6 Nm		
Family construction form M12 × 1 suitable for corrugated tube (internal O) 10 mm   Coding A	Mounting method	inserted, screwed		
Subtable for corrugated tube (internal O)         10 mm           Coding         A           Matterial         PUR           Width across flats         SW13           Degree of protection (EKE 65529)         IP55, IP66K. IP67           Commercial data           ECLASS 8.0         2779218           ECLASS 8.1         2729218           ECLASS 7.0         2729218           ECLASS 9.0         2779218           ECLASS 9.0         2779218           ECLASS 9.0         2779218           ECLASS 9.0         2709311           ECLASS 9.0         2709311           ECLASS 9.0         2709311           ECLASS 9.0         2700311           ECLASS 1.1         2700311           ECLASS 1.0         2700311           ECLASS 1.0         2700311           ECLASS 1.0         2700311           ECLASS 1.0         4048879551267           ECLASS 1.0         4000315           ECLASS 1.0         40	Family construction form	M12		
Coding         A           Matterial         PUR           Width across fists         SW13           Degree of protection (EN IEC 80520)         IPSE, IPSEK, IPST           Commercial data           EGLASS-6.0         27279218           EGLASS-6.1         27279218           EGLASS-7.0         27279218           EGLASS-8.0         27000311           EGLASS-9.0         2700311           EGLASS-1.1         2706311           EGLASS-1.2.0         2766311           EGLASS-12.0         2766311           ETIM-5.0         EC01856           customs striff number         8544230           GTIN         404877551267           Packaging unit         1           Electrical data [Supply           Operating voltage DC mix.         1           Operating voltage DC mix.         18 Y           Operating voltage DC mix.         4 A           Diagnostics         30 Y           Current operating per context max.         4 A           Davice protection [Electrical         Aciditional condition protection degree           Installation [Connection   Electrical         Aciditional condition protection degree           Pollution Degree         3	Thread	M12 x 1		
Metterial         PUR           Width across fists         SW13           Degree of protection (ENIEC 60529)         IP65, IP66K, IP67           Commercial data         PUR           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 9.0         27279218           ECLASS 9.0         27060311           ECLASS 1.1         27060311           ECLASS 1.2.0         27070315           Exercise of the start start number         1           Departation protection of the start st	suitable for corrugated tube (internal Ø)	10 mm		
Width across flats         SW13           Degree of protection (EN IEC 60529)         P65, IP66K, IP67           Commercial date         P65, IP66K, IP67           ECLASS-6.0         27279218           ECLASS-6.1         22779218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           countons lariff number         85444290           GTN         408879551267           Packaging unit         1           Electrical data   Supply           Operating voltage DC mox.         18 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         4 A           Diagnosition         M12 x 1           Description protection legree         inserted, screwed           Pollution protection legree         inserted, screwed           Pollution protection data; <th< td=""><td>Coding</td><td>A</td></th<>	Coding	A		
Degree of protection (EN IEC 60523)         IP65. IP66K, IP67           Commercial data           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         2770218           ECLASS-9.0         27060311           ECLASS-9.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2         27060311           ECLASS-1.3         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.3         27060311           ECLASS-1.1         47060311           ECLASS-1.2.0         27060311           ECLASS-1.1         27060311           ECLASS-1.1         47060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.1         47060311           ECLASS-1.1         27060311           ECLASS-1.2         27060311           ECLASS-1.2         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         40 V           Operating voltage	Material	PUR		
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27796311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27070311           Palcasing unit         1           Beatrical data Supply <t< td=""><td>Width across flats</td><td>SW13</td></t<>	Width across flats	SW13		
ECLASS-6.0         27279218           ECLASS-8.1         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           EVELTACK         30 V           Operating voltage DC max.         4 V           Operating voltage DC max.         4 A           EV	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67		
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ECLASS-8.0         27279218           ECLASS-9.0         27660311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-17.0         ECOINST           customs tariff number         85444290           GTIN         4048879551267           Packaging unit         1           Electrical data   Supply           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC max. (UL-listed)         30 V           University of target and t	ECLASS-6.1	27279218		
ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         4048879551267           Packaging unit         1           Electrical data   Supply         Voerating voltage DC           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication   Connection         Mounting set           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 60064-1)         I           Mechanical data   Material data         Zinc die-casting           Material server connection         Zinc die-casting           Material server connection         Zinc die-casting           Mechanical data   Moun	ECLASS-7.0	27279218		
ECLASS-10.1         27060311           ECLASS-11.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           oustoms tariff number         85444290           GTIN         4048879551267           Packaging unit         1           Electrical data   Supply         Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         MA           Diagnostics         Status indication LED         green, white, yellow           Installation   Connection         Multing formation   M12 x 1           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         Reteat surge voltage         0,8 kV           Material group (EC 60664-1)         1         I           Mec	ECLASS-8.0	27279218		
ECLASS-1.1.1         27060311           ECLASS-12.0         27060311           ETIMI-5.0         ECOINSES           customs tariff number         854444290           GTIN         4048879551267           Packaging unit         1           Electrical data   Supply           Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Operating portage DC max.         4 A           Diagnostics           Status indication LED         green, white, yellow           Installation   Connection           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree           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 (EC 60664-1)         1           Mechanical data   Material data <td>ECLASS-9.0</td> <td>27060311</td>	ECLASS-9.0	27060311		
ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879551267           Packaging unit         1           Electrical data   Supply           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC 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)         1           Mechanical data   Material data           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Mechanical data   Mounting data           Mechanical data   Mounting data <td <="" colspan="2" td=""><td>ECLASS-10.1</td><td>27060311</td></td>	<td>ECLASS-10.1</td> <td>27060311</td>		ECLASS-10.1	27060311
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879551267           Packaging unit         1           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           Status indication LED         green, white, yellow           Installation   Connection         Munuting set           Mounting set         M12 x 1           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         3           Rated surge voltage         3 Riv           Material group (IEC 60664-1)         1           Mechanical data   Material data         Value of the casting           Mechanical data   Material data         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Munuting method           Mechanical data   Mounting data         S° C	ECLASS-11.1	27060311		
customs tariff number         85444290           GTIN         4048879551267           Packaging unit         1           Electrical data   Supply           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         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)         I           Mechanical data   Material data         I           Coating locking         safe-cover coated           Coating af ritting         nickel plated           Locking material         Zinc die-casting           Material serve connection         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic           Coperating te	ECLASS-12.0	27060311		
GTIN 404879551267 Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 V  Operating voltage DC max. 18 V  Operating voltage DC max. 30 V  Operating voltage DC max. 4 A  Current operating voltage DC 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  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating of lifting nickel plated  Locking material Zinc die-casting  Material screw connection Xinc plated  Locking material Abounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	ETIM-5.0	EC001855		
Packaging unit         1           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           Operating voltage DC max. (UL-listed)         30 V           Outper to operating per contact max.         4 A           Diagnostics         Very Common to perating per contact max.           Status indication LED         green, white, yellow           Installation   Connection         M12 X 1           Device protection   Electrical         M2 X           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I           Mechanical data   Meterial data         I           Coating locking         safe-cover coated           Coating of litting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection <td>customs tariff number</td> <td>85444290</td>	customs tariff number	85444290		
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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) I  Mechanical data   Material data  Coating locking safe-cover coated  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Current operating per contact max.	4 A		
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) 1  Mechanical data   Material data  Coating locking safe-cover coated  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Diagnostics			
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Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking safe-cover coated  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Installation   Connection			
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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 safe-cover coated 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 min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes	Device protection   Electrical			
Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking safe-cover coated  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Additional condition protection degree	inserted, screwed		
Material group (IEC 60664-1)  Mechanical data   Material data  Coating locking safe-cover coated  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Pollution Degree	3		
Material group (IEC 60664-1)  Mechanical data   Material data  Coating locking safe-cover coated  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Rated surge voltage	0,8 kV		
Coating locking safe-cover coated  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Material group (IEC 60664-1)	T.		
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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Mechanical data   Material data			
Locking material  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  Additional condition temperature range depending on cable quality  Important installation notes	Coating locking	safe-cover coated		
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Coating of fitting	nickel plated		
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Locking material	Zinc die-casting		
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Material screw connection	Zinc die-casting		
Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Mechanical data   Mounting data			
Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Mounting method	inserted, screwed, Shaking protection		
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes	Environmental characteristics   Climatic			
Additional condition temperature range depending on cable quality  Important installation notes	Operating temperature min.	-25 °C		
Important installation notes	Operating temperature max.	85 °C		
	Additional condition temperature range	depending on cable quality		
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.	Important installation notes			
	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.		

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: 2024-05-19



stay connected

Note on bending radius

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
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires twisted
wire arrangement	brown, 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 mm
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 mm
Conductor crosssection (wire)	0,34 mm²
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
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