

## M12 female 0° A-cod. with cable shielded

PVC 5x0.34 shielded bk UL/CSA 2m

M12, 5-pole Female straight shielded

with cable sleeves

Plastic housings with good resistance against chemicals and oils.

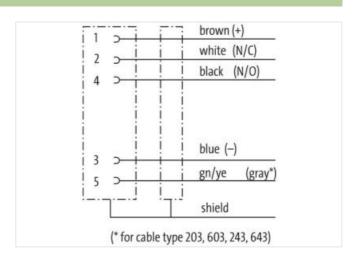
The resistance to aggressive media should be individually tested for your application. Further details on request.

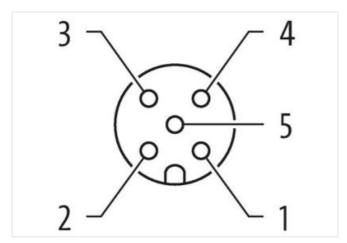
Further cable lengths on request.

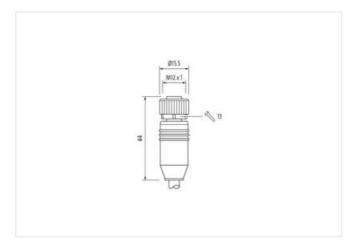
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

2 m

Side 1

Tightening torque

0,6 Nm

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



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Family construction form  M12 Trinead  M13 Trinead  M14 Trinead  M15 Trinead  M16 A Makerial  PUR  PUR  PUR  PUR  PUR  PUR  PUR  PU	Mounting method	inserted, screwed
Tread		
Code of the content		
Decision   Pure   Pur		
Meered         PUR           Wirdin across Teates         SW13           Subreguer of protection (EN IEC 80529)         IP55, IP66K, IP67           Sible 2         SUPPORT OF TEATH OF THE ACT O		<del>-</del>
Width across flate         SW13           Degree of procesion (EN ICC 60529)         IPBS, IPG6K, IPS7           Stripping length (jacker)         20 mm           Commercial date           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27290311           ECLASS 9.1         27080311           ECLASS 1.1         27080311           ECLASS 1.2.0         27080311 <td></td> <td></td>		
Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Sible 2         Sible 2           Sible 3         Sible 3           Sible 40         Sible 3           Stripping length (jacker)         20 mm           Commercial data         Commercial data           ECLASS 7.0         27279218           ECLASS 8.0         27900311           ECLASS 1.1         27000311           ECLASS 1.2.1         27000311           ECLASS 1.2.0         27000311           ECLASS 1.2.0         27000311           ECLASS 1.0.1         404867880178           Packagong unit         1           Ecletical data [Supply           Operating voltage AC max.         60 V           Operating voltage AC Max.         80		
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Commercial data           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-8.0         27050311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           sustoms sarff number         85444290           GTIN         404887860178           Packaging unit         1           Electrical data   Supply         Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (max.         60 V           Operating voltage AC (U-lised)         30 V           Geride Geride         Inserted, socrewed           Follution Degree	Side 2	
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27000311           ECLASS-10.1         27000311           ECLASS-11.1         27000311           ECLASS-12.0         27000311           ECLASS-13.0         EC01855           sustoms farif number         8544290           OTTN         404887989178           Packaging unit         1           Electrical datal Suppty           Operating voltage AC max.         60 V           Operating voltage AC (U-listed)         30 V           Operating voltage DC (U-listed)         30 V           Operating voltage DC (U-listed)         30 V           Operating voltage DC (U-listed)         30 V           Operating soll may be Contact max.         4 A           Installation [Connection         Simpling length (jackel)           Simpling length (jackel)         20 mm           Mounting sol         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         1,5 kV           Additional for the protection degre	Stripping length (jacket)	20 mm
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ECLASS-10.1 27060311 ECLASS-11.2 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855  uustoms tariff number 85444290 GTIN 404887860178 Packaging unit 1  Electrical data   Suppty  Operating voltage AC max. 60 V Operating voltage AC max. 60 V Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 41 V Operating voltage AC (U	ECLASS-8.0	27279218
EGLASS-1.1.1         27060311           EGLASS-12.0         27060311           EGLASS-12.0         27060311           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         4048873980178           Packaging unit         1           Electrical data   Suppty           Operating voltage AC max.           Operating voltage DC max.         60 V           Operating voltage DC WL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage pcr contact max.         4 A           Installation   Connection         Installation   Connection           Stripping length (facket)         20 mm           Mounting set         M12 x 1           Gender         Inmale           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Additional condition protection   Electrical           Malerial group (IEC 6068-1)         I           Mechanical data           Contion of corrugated hose         without	ECLASS-9.0	27060311
ECILAS-12.0         27060311           ETIM-5.0         EC001855           usustoms tarif number         85444290           GTIN         4046879860178           Packaging unit         1           Electrical data   Supply         Usustoms tarifundors           Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating per contact max.         4 A           Installation   Connection         Stripping length (acket)           Stripping length (acket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3	ECLASS-10.1	27060311
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879860178           Packaging unit         1           Electrical data   Supply         Voperating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating per contact max.         4 A           Installation   Connection         Installation   Connection           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data         I           Control for corrugated hose         without           Mechanical data   Meterial data         I           Coating folking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Meterial screw connection         zinc die-casting	ECLASS-11.1	27060311
Section   Sect	ECLASS-12.0	27060311
GTIN 4048879860178 Packaign unit 1  Electrical data   Supply  Operating voltage AC max. 60 V  Operating voltage AC (UL-listed) 30 V  Operating voltage AC (UL-listed) 30 V  Operating voltage DC (UL-listed) 30 V  Installation   Connection	ETIM-5.0	EC001855
Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 60 V  Operating voltage AC (IUL-listed) 30 V  Operating voltage DC (IUL-listed) 30 V  Operating voltage DC (IUL-listed) 30 V  Operating voltage PC (IUL-listed) 30 V  Operating voltage PC (IUL-listed) 30 V  Operating voltage PC (IUL-listed) 30 V  Our operating per contact max. 4 A  Installation   Connection  Stripping length (jackel) 20 mm  Mounting set M12 x 1  Gender female  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV  Material group (IEC 60684-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating locking nickel plated  Locking material in nickel plated  Locking material   Zinc die-casting  Meterial screw connection   Zinc die-casting  Mechanical data   Mounting data  Mechanical	customs tariff number	85444290
Electrical data   Supply  Operating voltage AC max. 60 V  Operating voltage DC max. 60 V  Operating voltage DC max. 60 V  Operating voltage DC (UL-listed) 30 V  Operating voltage DC (UL-listed) 30 V  Operating voltage DC (UL-listed) 30 V  Current operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Gender female  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV  Material group (IEC 60664-1) 1  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Coating of fitting nickel plated  Locking material 2 inc die-casting  Material screw connection 2 incerted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deperating temperature mix. 25 °C  Operating temperature max. 46 V   Mounting condition temperature range depending on cable quality	GTIN	4048879860178
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Operating voltage DC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         V           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data         Virtual of the control of corrugated hose without           Mechanical data   Material data         Vickeled           Coating locking         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Virtual of the control of the control of the plated of the control	Electrical data   Supply	
Operating voltage DC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         V           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data         Virtual of the control of corrugated hose without           Mechanical data   Material data         Vickeled           Coating locking         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Virtual of the control of the control of the plated of the control	Operating voltage AC max.	60 V
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Current operating per contact max.         4 A           Installation   Connection         Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Meterial group (IEC 60664-1)         1           Mechanical data           Contour for corrugated hose         without           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           Coperating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality		30 V
Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Gender female  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I Contour for corrugated hose without  Mechanical data   Material data  Coating locking inserted in sickel plated  Locking material cornection included inserted inserted, screwed, shaking protection  Mechanical data   Material data  Coating locking inserted, screwed, shaking protection  Mechanical data   Material data  Coating locking inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min. 45 °C  Operating temperature max. 45 °C  Additional condition temperature range depending on cable quality		4 A
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Contour for corrugated hose without  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality		<u> </u>
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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	Coating locking	Nickeled
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  Additional condition temperature range depending on cable quality	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	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	Material screw connection	Zinc die-casting
Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality	Mechanical data   Mounting data	
Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality	Mounting method	inserted, screwed, Shaking protection
Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality	Environmental characteristics   Climatic	
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality	Operating temperature min.	-25 °C
Additional condition temperature range depending on cable quality	Operating temperature max.	85 °C
	Additional condition temperature range	depending on cable quality
	Important installation notes	



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Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on behaling radius	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
wire arrangement	brown, black, blue, white, green-yellow
Cable identification	602
Cable Type	1
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece, Foil
Filler	yes
wire arrangement	brown, black, blue, white, green-yellow
Cable weigth	68,2 g/m
Material jacket	PVC
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5,6 mm
Folerance outer diameter (sheath)	± 5 %
Material wire insulation	PVC
Amount wires	5
Outer diameter insulation	1.25 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	45 ± 5 Shore D
Material properties wire insulation	good machinability
ngredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	19
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - acket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	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
JV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
	DIN EN 60811-404   Good, application-related testing