

## M12 female 0° A-cod. with cable

PUR AWG24+22 shielded vt UL/CSA+drag ch. 11m

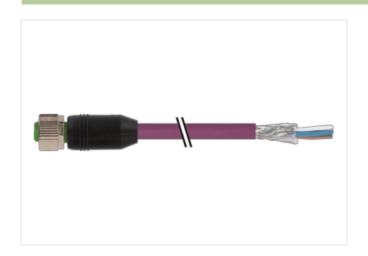
DeviceNet, CANopen Female straight M12, 5-pole A-coded

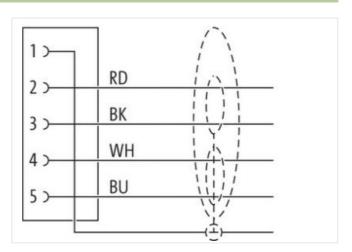
Plastic housings with good resistance against chemicals and oils.

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

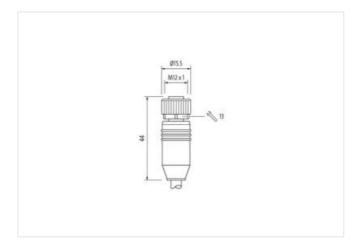
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

11 m

Side 1

Tightening torque

0,6 Nm



stay connected

Family construction form M12 Tribunated M12 Tribunated M12 Tribunated M12 Tribunated M12 Tribunated M14 Tribuna	Mounting method	inserted, screwed
Trimate	_	· · · · · · · · · · · · · · · · · · ·
Coding         A           Voluntary         PUR           Validation of Mark Inc. (SC 9529)         IPM (PR)           Validation of Inc. (SC 9529)         IPM (PR)           Validation of Inc. (SC 9529)         IPM (PR)           Validation of Inc. (SC 9529)           Singping length (Jackel)         20 mm           Commercial data           CCLASS 6.0         27060907           CCLASS 7.0         27060907           CCLASS 9.0         27090907           CCLASS 9.0         27090907           CCLASS 1.1         27060907           CCLASS 1.20         27060907		
Medicaria		
Width across flats         SW13           Degree of protection (EN IEC 60529)         IPS6, IP96K, IP67           Side 2         Strepping length (jacket)         20 mm           Commercial data           ECLASS 6.0         27061801           ECLASS 6.1         27060307           ECLASS 7.0         27060307           ECLASS 8.0         27060307           ECLASS 9.1         27060307           ECLASS 1.1         27060307           ECLASS 1.2.0         27060307           ECLASS 1.2.0         27060307           ETIM 5.0         EC001855           EURIST 1.1         404873 198568           Peakagn unit         1           Electrical data   Supply           Opperating voltage DC max.         60 V           Opperating	Material	
Post		
Side 2         Stropping parth (jacket)         20 mm           Commercial date           CCMASS-6.0         27061807           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-1.1         27060307           ECLASS-1.1.1         27060307           ECLASS-1.1.1         27060307           ECLASS-1.2.0         27060307           ECLASS-1.2.1         27060307           ECLASS-1.2.0         27060307           ECLASS-1.2.1         27060307           ECLASS-1.2.1         40081879199688           ECLASS-1.2.2         27060307           ECLASS-1.2.3         40.48297199668           ECLASS-1.2.4         40.48879199668           ECLASS-1.2.5         40.48879199668           Ecacking und tall         40.48879199668           Ecacking und tall Suppty         Eccentral data Suppty           Doperating voltage DC max.         60 V           Opperating voltage DC max.         60 V           Opperating voltage DC max.         60 V           Opperating voltage DC (U-listed)         30 V           Opperating voltage DC (U-listed)         30 V           Ev		
Stripping length (jacker)         20 mm           Commercial data         CECLASS 6.0         27061801           ECLASS 6.1         270669307           ECLASS 6.0         270669307           ECLASS 8.0         28069307           ECLASS 8.0         270669307           ECLASS 8.10.1         270669307           ECLASS 8.11.1         270669307           ECLASS 8.12.0         270609307           ECLASS 8.12.0         E0001855           ECLASS 9.1.1         4048879 199568           Packaging 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 AC (UL-listed)         30 V           Stripping length (jacker)         20 mm           Modification protection degree         Ms 2           Pollution Degree         3           Rated any outgop (IEC 6666-1)         1           Machinarial group (IEC 6666-1)         1           Mechanical data         Msickeled           Conting of fitting         nickel plated           Material group (IEC 6666-1)         Zinc die-casting		
Commercial data         2016 1801           ECLASS-6.0         2706 1801           ECLASS-7.0         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         ECO1855           USUSIONS BARTH TUMBER         85444290           STIN         404879199568           Packaging unit         1           Electrical data   Supply         February Collection   Supply		
ECLASS-6.0         27061901           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-8.0         27060307           ECLASS-1.1         27060307           ECLASS-1.1.1         27060307           ECLASS-1.1.0         27060307           ECLASS-1.1.1         27060307           ETIMS-0         E003836           Usustoms striff number         85444290           STIN         404887199558           Puckaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC (PL. Islaed)         30 V           Molitical Confecion (Sector)         11 V           Insta	Stripping length (jacket)	20 mm
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ECLASS-8.0 27060307  ECLASS-9.0 27060307  ECLASS-11.1 27060307  ECLASS-12.0 27060307  ECLASCAS-12.0 27060307  ECLA	ECLASS-6.1	27060307
ECLASS 9.0         27060307           ECLASS 10.1         27060307           ECLASS 11.1         27060307           ECLASS 12.0         27060307           ETIM-5.0         EC001855           Sustons failf number         8944290           GTIN         4048879199568           Packaging unit         1           Electrical data   Suppty         February (Marchage AC max.)           Operating voltage AC max.         60 V           Operating voltage AC (UL listed)         30 V           Operating voltage AC (UL listed)         30 V           Operating per contact max.         4 A           Installation   Connection         Journal operating per contact max.           Mounting set         M12 x 1           Povice protection   Electrical           Additional condition protection degree         Inserted, screwed           Pollution Degree         3           Reted surge voltage         1,5 kV           Material group (IEC 60684-1)         I           Continue for orrupated hose         without           Mechanical data   Material data         Screwed           Coaling of fitting         nickel plated           Material grow (ritting)         nickel plated           Material grow (ra	ECLASS-7.0	27060307
ECLASS-10.1 27060307 ECLASS-11.0 27060307 ECLASS-12.0 27060307 ETIM-5.0 ECO01855  Dissons fariff number 85444290 37TN 4048879199588 Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 60 V Operating voltage AC max. 60 V Operating voltage AC (UL-listed) 30 V Operating voltage AC max. 64 A  Installation   Connection  Stripping length (jackot) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage with the surge voltage without the surge voltage without with with with with with with with wit	ECLASS-8.0	27060307
ECLASS-1.1.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ETIM-5.0         ECO01855           coustoms tariff number         85444290           GTIN         4048879199588           Peakaging unit         1           Electrical data   Supply         Operating voltage AC max.         60 V           Operating voltage AC QTU-listed)         30 V           Operating voltage AC QTU-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Outroet operating per contect max.         4 A           Installation   Connection         Stripping length (flacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical         Additional condition protection degree         3           Rated sugs voltage         1,5 kV           Material group (IEC 60684-1)         1           Mechanical data   Material data         Conting focking         Nickeled           Coating focking         Nickeled           Coating focking         Nickeled acasting           Material gasket         FKM	ECLASS-9.0	27060307
ECLASS-12.0         27060307           ETIM-5.0         EC001855           sustoms tarif number         85444290           GTIN         4048879199568           Packaging unit         1           Electrical data   Supply         Deperating voltage AC max.           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 porting porting porting working per contact max.         4 A           Installation   Connection         With x 1           Stripping length (lacket)         20 mm           Mounting set         Mix x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 80664-1)         1           International data         International data   Material data           Containg locking         Nickeled           Cocating locking material         Zinc die-casting           Material gasket         FKM           Locking material         Zinc die-casting	ECLASS-10.1	27060307
ETIM-5.0         EC001855           sustoms fariff number         85444290           3TIN         4048879199568           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating temperature in (see temperature max.)         4 A           Device protection   Electrical         42 Mineral See temperature max.           Additional condition temperature max.         15 kV           Mechanical data   Material data         15 kV <td>ECLASS-11.1</td> <td>27060307</td>	ECLASS-11.1	27060307
State   Stat	ECLASS-12.0	27060307
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Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 60 V  Operating voltage AC (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  Device protection   Electrical  Additional condition protection digree inserted, screwed  Pollution Degree 3  Rated surge voltage  And the surge voltage AC max. 4 A  Methanical data  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Coating of litting inickel plated  Material grow onection   Zinc die-casting  Material screw connection   Zinc die-casting  Methanical data   Munting data  Mechanical data   Munting data  Mech	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  Current operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  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 locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Locking material  Zinc die-casting  Meterial screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Deperating temperature max. 85 °C  Additional condition temperature range depending on cable quality	GTIN	4048879199568
Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Operating voltage AC (UL-listed)         30 V           Ourent operating per contact max.         4 A           Installation   Connection         V           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Metarial group (IEC 60664-1)         I           Mechanical data         Without           Containg locking         Nickeled           Coating locking         Nickeled           Coating locking         nickel plated           Material gasket         FKM           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality <td>Packaging unit</td> <td>1</td>	Packaging unit	1
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         Stripping length (jacket)           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           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           Conting for corrugated hose         without           Mechanical data   Material data           Coating of fitting         nickel plated           Material gasket         FKM           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 max.         85 °C           Additional condition temperature range<	Electrical data   Supply	
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Current operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  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  Contour for corrugated hose without  Mechanical data   Material data  Contour for corrugated hose without  Mechanical data   Material data  Conting locking Nickeled  Coating locking nickel plated  Material gasket FKM  Adderial gasket FKM  Material screw connection Zinc die-casting  Meterhanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Deperating temperature min. 25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Operating voltage AC (UL-listed)	30 V
Installation   Connection  Stripping length (Jacket) 20 mm  Mounting set M12 x 1  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  Contour for corrugated hose without  Mechanical data   Material data  Coating locking nickel plated  Material gasket FKM  Locking material cornection   Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min25 °C  Deparating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Operating voltage DC (UL-listed)	30 V
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Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deparating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Material group (IEC 60664-1)	I
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Coating of fitting nickel plated  Material gasket FKM  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		Nickeled
Material gasket FKM 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	Coating of fitting	
Locking material  Material screw connection  Mechanical data   Mounting data  Mounting method  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  Additional condition temperature range  Jinc die-casting  inserted, screwed, Shaking protection  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range	Material gasket	· · · · · · · · · · · · · · · · · · ·
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  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	
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		
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 min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality		
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		
	Additional condition temperature range	



Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	<b>Attention:</b> 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	803
lacket Color	violet
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 Stranded joints twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
	Foil
Sanding  Proin wire (gross section)	
Orain wire (cross-section)	22 AWG
vire arrangement	(white, blue), (black, red)
Cable weigth	63,12 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
reedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	6,9 mm
olerance outer diameter (sheath)	± 5 %
Material wire insulation	PE
Amount wires	2
Outer diameter insulation	2,1 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	64 ± 5 Shore D
ngredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	19
Diameter of single wires	24 AWG
Conductor crosssection (wire)	24 AWG
Orain wire (cross-section)	22 AWG
Material conductor wire	copper stranded wire, tinned
Electrical function wire	Data
Material wire insulation (Data)	PE
Outer diameter wire insulation (Data)	1,5 mm
Tolerance outer diameter wire insulation (data)	± 53 %
ngredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Amount wires (Data)	2
Amount strands wire (Data)	19
Diameter of single wires (Data)	22 AWG
Conductor crosssection wire (Data)	22 AWG
Material conductor wire (Data)	copper stranded wire, tinned
Electrical function wire (data)	Power
raversing distance (C-track)	5 m
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Current load capacity min. Wire (Data)	6 A
Electrical function wire	
	Data
Electrical function wire (data)	Power



Characteristic impedance	120 Ω ± 10 % @ 1 MHz
Electrical resistance line constant wire	78 Ω/km
Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electric capacitance	40000 pF/km
AC withstand voltage (wire - shield)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °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	DIN EN 60811-404   Good, application-related testing
Bending radius (installation)	x Outer diameter
Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	1 Mio.
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min