

## M12 female 0° A-cod. with cable

PUR AWG24+22 shielded bk UL/CSA+drag ch. 10m

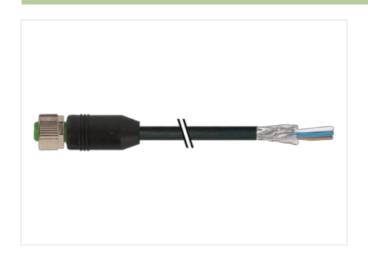
DeviceNet, CANopen Female straight M12, 5-pole A-coded

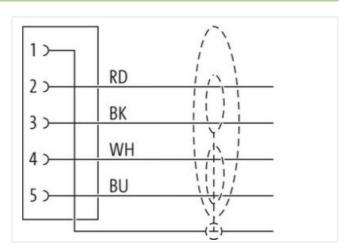
Plastic housings with good resistance against chemicals and oils.

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

10 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 from M12 minuted M12 m	Mounting method	inserted, screwed
Trimate	_	· · · · · · · · · · · · · · · · · · ·
Coding         A           Mobileria         PUR           Width across flats         SW13           Degree of princetion (EN IEC 60529)         196, 1966, IP67           Strigong length (jackel)         20 mm           Commercial data           ECLASS 6.0         27068007           ECLASS 6.1         27068007           ECLASS 7.0         27068007           ECLASS 9.0         27090007           ECLASS 1.1         27060007           ECLASS 1.2         27068007           ECLASS 1.1         27060007           ECLASS 1.2.1         27068007           ECLASS 1.1.1         27060007           ECLASS 1.2.2         27068007           ECLASS 1.2.1         27068007           ECLASS 1.2.2         27068007           ECLASS 1.2.1         27068007           ECLASS 1.2.2         270680007		
Medicaria		
Width across flats         SW13           Degree of protection (EN IEC 60529)         IPSS, IPO6K, IP67           Side 2         Stripping 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 1.1.1         27060307           ECLASS 1.2.0         27060307           ECLASS 1.1.1         27060307           ECLASS 1.2.0         27060307           ETIM 5.0         EC001885           Eustons striff number         85444290           TETIM 5.0         404879779203           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Opparating voltage AC max.         60 V           Opparating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Deparating voltage AC max.         60 V           Opparating voltage AC max.         60 V           Opparating voltage AC max.         60 V	Material	
Degree of protection (EN IEC 60529)         IP65, IP68K, IP67           Side 2         Side 2           Sirboging length (jacket)         20 mm           Commercial data         Commercial data           ECLASS 6.0         27061801           ECLASS 7.0         27060307           ECLASS 8.0         27060307           ECLASS 8.0         27060307           ECLASS 9.1         27060307           ECLASS 1.1.1         27060307           ECLASS 1.2.0         408879779203           ECLASS 1.2.0         27060307           ETIMA 0.         ECONTRAIN 0.00           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           Device protection   Electrical         M2 x 1 <td></td> <td></td>		
Side 2         Stropping parth (jackvol)         20 mm           Commercial date         Commercial date           ECLASS-6.0         270618001           ECLASS-6.1         270603007           ECLASS-7.0         270603007           ECLASS-9.0         270603007           ECLASS-10.1         270603007           ECLASS-11.1         270603007           ECLASS-12.0         270603007           ECLASS-13.1         270603007           ECLASS-12.0         270603007           ECLASS-13.0         400889779203           ECLASS-12.0         270603007           ETIM 5.0         ECONDESS           ECLASS-12.0         270603007           ETIM 5.0         ECONDESS           ECLASS-12.0         270603007           ECLASS-13.0         4008897772023           Packaging unit         4008897772023           Packaging unit         60 V           Opperating voltage PC max.         60 V           Opperating voltage PC max.         60 V           Opperating voltage PC max.         60 V           Opperating voltage PC (U-listed)         30 V           Opperating voltage PC (U-listed)         30 V           United packaging proprint (gacket)		
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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         404897979203           Packaging unit         1           Electrical data   Supply         Poperating voltage AC max.           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30		
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ECLASS-12.0         27060307           ETIM-5.0         EC001855           sustoms tarif number         85444290           GTIN         4048879779203           Packaging unit         1           Electrical data   Supply         Deperating voltage AC max.           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           Operating porting porting 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 60664-1)         1           Mechanical data         Vickeled           Coating locking         Nickeled           Coating locking         Nickeled           Coating locking analerial         Zinc die-casting           Material grave connection         Zinc die-casting           Mecha	ECLASS-10.1	27060307
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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  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Locking material Screw connection 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	4048879779203
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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 locking  Nickeled  Coating of fitting  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 min.  -25 °C  Operating temperature max.  Additional condition temperature range  depending on cable quality		
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Locking material  Material screw connection  Mechanical data   Mounting data  Mounting method  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  Additional condition temperature range  Zinc 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	<del>_</del>
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		
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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	
	Important installation notes	



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Mata an han Pan an Par	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	838
Jacket Color	black
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 %
Banding	Foil
Drain wire (cross-section)	22 AWG
wire arrangement	(white, blue), (black, red)
Cable weigth	63,12 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	6,9 mm
Tolerance 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
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	19
Diameter of single wires	24 AWG
Conductor crosssection (wire)	24 AWG
Drain 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)	· · · · · · · · · · · · · · · · · · ·
Ingredient 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
Traversing 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
	244



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
UV 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
Oil resistance	Good, application-related testing   DIN EN 60811-404
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