

## M12 male 0° A-cod. with cable

PUR AWG24+22 shielded vt UL/CSA+drag ch. 1.4m

DeviceNet, CANopen Male straight M12, 5-pole

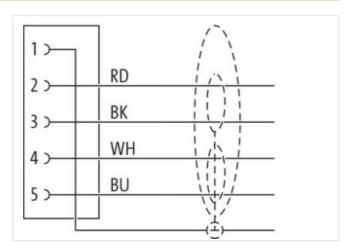
Plastic housings with good resistance against chemicals and oils.

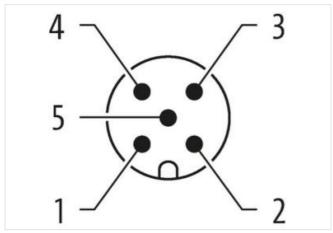
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

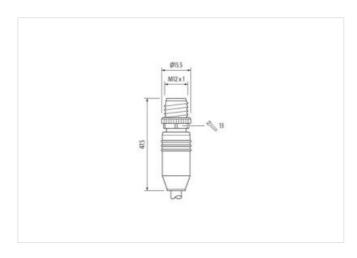
## **Link to Product**

## Illustration









Product may differ from Image



















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Cable length	1,4 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Commercial data	
ECLASS-6.0	27061801
ECLASS-7.0	27061801
ECLASS-8.0	27061801
ECLASS-9.0	27061801
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879542166
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
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)	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)	
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	
Operating temperature min.	-25 °C
Operating temperature min.  Operating temperature max.	
	85 °C

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: 2024-05-18



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Note on stain 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 endangared by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cabbe  wire arrangement (white, blue), (black, red)  Cable identification 883  Lacket Color Volet  Type of Certificate CURss  Attention (type 2) 1  Stranding 2 wires tweeted  Annount stranding (type 2) 2  Stranding (type 2) 2  Stranding (type) 2  Cable sheliding (type) 2  Cable sheliding (type) 3  Cable sheliding (type) 3  Cable sheliding (type) 4  Cable sheliding (type) 4  Cable sheliding (type) 5  Cable sheliding (type) 65 8  Cable sheliding (type) 65 8  Cable will be the control of the c	Additional condition temperature range	depending on cable quality
Note on strain rolled Protect the commoctors by suitable measures from mechanical loads, e.g., by the usage of cable toes.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by entestine bending radii when laying cables, as the IP protection class can be endangered by entestine bending fortes.  Protect standard DNE NE NETOR-2-101 (M12)  Installation I Cable  Work and a capacity of Cable (While, blue), (black, red)  Gable Identification 080  Jacket Cofor Voilet  Ulbus  Attending (type 0 Cable Identification 080  Jacket Cofor Voilet  Voilet  Stranding 1 1  Stranding 2 wires avaited  Amount strainfing (type 2) 1  Stranding (type 2) 2 2 Stranded joints believed  Cable shielding (type) 0 0000000000000000000000000000000000	, ,	and the second s
Abteriorin: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Product standard	•	Port of the control to the state of the control to the state of the st
Cardominy  Product standard DIN EN 61076.2-101 (M12)  Installation (Cable  wire arrangement (white, blue), (black, red)  Salacket Coor volet  Product standard (white, blue), (black, red)  Standing (ype 2) volet  Stranding (ype 2) 1  Stranding (ype 2) 2  Stranding (ype 2) 3  Stranding (ype 2) 3  Stranding (ype 2) 4  Stranding (ype 2) 4  Stranding (ype 2) 5  Stranding (ype 2) 5  Stranding (ype 2) 6  Stranding (ype 2) 6  Stranding (ype 2) 6  Stranding (ype 2) 6  Stranding (ype 2) 7  Stranding (ype 2) 8  Stranding (ype 2) 8  Stranding (ype 2) 9  Strandi	Note on strain relief	
Installation   Cable	Note on bending radius	endangered by excessive bending forces.
Installation   Cable	Conformity	
wire arrangement (white, blue), (black, red)  Sable identification 803  Jacket Color voiet Type of Certificate cUPus  Amount stranding 1  Smanding 2 wires twisted  Amount stranding 2 wires twisted  Amount stranding (type 2) 1  Stranding (type 2) 1  Stranding (type 2) 2  Stranding (type 2) 2  Stranding (type 2) 3  Sable shielding (coverage) 65 %  Bandring Foll  Brain wire (cross section) 22 AWG  Drain wire (cross section) 22 AWG  Material anchet PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 15 %  Material wire insulation PE  Amount wires  Duter diameter insulation PE  Amount wires  Duter diameter insulation PE  Amount wires  Duter diameter insulation 10 ± 5 Shore D  Ingredient freeness wire insulation 10 tead "ree, CPC-free, halogen-free  Duter diameter insulation 10 tead "ree, CPC-free, halogen-free  Duter diameter insulation 10 tead "ree, CPC-free, halogen-free  Duter diameter insulation 2 ± AWG  Conductor crosssection (wire) 24 AWG  Conductor crosssection (wire) 24 AWG  Conductor vive insulation (Data) 1,5 mm  Following diameter wire insulation (Data) 1,5 mm  Following couler diameter wire insulation (Data) 1,5 mm  Following Conductor wire (Data) 1,5 mm  Following Conducto	Product standard	DIN EN 61076-2-101 (M12)
Cable Identification         803           Jacket Color         violet           Violet Color         violet           Yey or O'Certificate         CURus           Amount stranding         1           Stranding         2 wires twisted           Stranding (type 2)         2 Stranded joints twisted           Cable shielding (type)         copper brad, finned           Cable shielding (type)         copper brad, finned           Cable shielding (coverage)         65 %           Banding         Foil           Porain wire (cross-section)         22 AVG           Cable weight         63 12 gm           Material jacket         PUR           Shore Anaroness jacket         90 ± 5 Shore A           Shore hardness jacket         90 ± 5 Shore A           Shore Anaroness jacket         90 ± 5 Shore A           Tolerance outer disameter (sheath)         5.9 mm           Tolerance outer disameter (sheath)         5.9 mm           Material wire insulation         PE           Amount wires         2           Duter disameter insulation         2 ± 5 Shore D           Insulation (wire)         19           Dismeter of single wires         2 ± 4 WC           Conductor crossection (wi	Installation   Cable	
Cable Identification         803           Jacket Color         violet           Violet Color         violet           Yey or O'Certificate         CURus           Amount stranding         1           Stranding         2 wires twisted           Stranding (type 2)         2 Stranded joints twisted           Cable shielding (type)         copper brad, finned           Cable shielding (type)         copper brad, finned           Cable shielding (coverage)         65 %           Banding         Foil           Porain wire (cross-section)         22 AVG           Cable weight         63 12 gm           Material jacket         PUR           Shore Anaroness jacket         90 ± 5 Shore A           Shore hardness jacket         90 ± 5 Shore A           Shore Anaroness jacket         90 ± 5 Shore A           Tolerance outer disameter (sheath)         5.9 mm           Tolerance outer disameter (sheath)         5.9 mm           Material wire insulation         PE           Amount wires         2           Duter disameter insulation         2 ± 5 Shore D           Insulation (wire)         19           Dismeter of single wires         2 ± 4 WC           Conductor crossection (wi	wire arrangement	(white, blue), (black, red)
Jacket Color	Cable identification	
Amount stranding 1 1  Stranding (ype 2) 2 2 Stranded joints twisted 2  Cable shielding (type 2) 2 2 Stranded joints twisted 3  Cable shielding (type 2) 2 5 Stranded joints twisted 3  Cable shielding (type 2) 65 % 8  Banding Fol	Jacket Color	violet
Stranding   2 wires twisted	Type of Certificate	cURus
Amount stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Cable shielding (type) 0 Cable shielding (poverage) 65 % Banding Foll Puria wrise (cross-section) 22 AWG write arrangement (white, blue), (black, red) Cable weight 63,12 g/m Material joxet PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cafmium-free, CFC-free, halogen-free, silicone-free Duter-diameter (jacket) 6,9 mm Tolerance outer diameter (sheath) ± 5 % Material liver insulation PE Amount write Shore hardness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation 94 AWG Dorian write (cross-section) 22 AWG Dorian write (cross-section) 22 AWG Material write insulation PE Amount write (cross-section) 22 AWG Dorian write (cross-section) 22 AWG Dorian write (cross-section) 22 AWG Material conductor write (cross-section) 22 AWG Material conductor write (cross-section) 22 AWG Material conductor write (cross-section) 22 AWG Material write insulation (Data) 1,5 mm Tolerance outer diameter write insulation (Data) 19 Diameter of single write (Data) 22 AWG Conductor crossection wire (Data) 24 AWG Conductor crossection wire (Data) 24 AWG Conductor write (Data) 19 Diameter of single write (Data) 24 AWG Conductor write (Data) 25 AWG Conductor crossection wire (Data) 20 AWG Conductor crossection wire (Data) 20 AWG Conductor write (Data) 20 AWG Correct Load capacity min. wire 4,5 A	Amount stranding	1
Stranding (type 2)   2   Stranded joints twisted	Stranding	2 wires 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 weight         63.12 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmum-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         6.9 mm           Tolerance outer diameter (jacket)         5.9 mm           Amount wires         2           Outer diameter insulation         PE           Amount wires         2           Outer diameter insulation         £ 5 %           Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Damater or single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material wire insulation (Data)	Amount stranding (type 2)	1
Cable shielding (coverage)         65 %           Banding         Foil           Drain wire (cross-section)         22 AWG           wire arrangement         (white, blue), (black, red)           Cable weight         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 tolerance core insulation         ± 5 %           Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         18 9           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 (	Stranding (type 2)	2 Stranded joints twisted
Poil	Cable shielding (type)	<del>`</del>
Drain wire (cross-section)         22 AWG           wire arrangement         (white, blue), (black, red)           Cable weight         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 insulation         4 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Conductor cross-section (wire)         19           Diameter of single wires         24 AWG           Conductor cross-section (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire (alt feneness wire insulation (Data)	Cable shielding (coverage)	65 %
wire arrangement         (white, blue), (black, red)           Cable weight         63,12 g/m           Material jacket         PUR           Shore hardness jacket         99 ± 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         ± 5 %           Shore hardness wire insulation         # 2 5 Shore D           Ingredient feeness wire insulation         # 4 ± 5 Shore D           Ingredient freeness wire insulation         # 4 ± 5 Shore D           Ingredient freeness wire insulation         # 4 ± 5 Shore D           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire (continued wire (are present wire insulation (bata)         1.5 mm           Tolerance outer diameter wire insulation (dat	Banding	Foil
wire arrangement         (white, blue), (black, red)           Cable weight         63,12 g/m           Material jacket         PUR           Shore hardness jacket         99 ± 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         ± 5 %           Shore hardness wire insulation         # 2 5 Shore D           Ingredient feeness wire insulation         # 4 ± 5 Shore D           Ingredient freeness wire insulation         # 4 ± 5 Shore D           Ingredient freeness wire insulation         # 4 ± 5 Shore D           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire (continued wire (are present wire insulation (bata)         1.5 mm           Tolerance outer diameter wire insulation (dat	Drain wire (cross-section)	22 AWG
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           Armount wires         2           Outer diameter insulation         2,1 mm           Outer diameter insulation         4 ± 5 Shore D           Ingredient freeness 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 uwe insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Outer diameter wire insulation (Data)         1,5 mm           Outer of single wires (Data)         2 AWG           Conductor or outer (Jota)         22 AWG<	wire arrangement	(white, blue), (black, red)
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 rolerance 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 cross-section (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)         1ead-free, CFC-free, halogen-free           Amount strands wire (Data)         2           Diameter of single wires (Data)         2           Diameter of single wires (Data)	Cable weigth	63,12 g/m
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 ± 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) 22 AWG  Material conductor wire copper stranded wire, tinned  Electrical function wire  Material wire insulation (Data) PE  Outer diameter wire insulation (Data) 1,5 mm  Tolerance outer diameter wire insulation (Data) 19  Diameter of single wires (Data) 2 AWG  Conductor crosssection wire (Data) 19  Diameter of single wire (Data) 2 AWG  Conductor crosssection wire (Data) 2 AWG  Conductor wire (Data) 4 AWG  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Material jacket	PUR
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         opper stranded wire, tinned           Electrical function wire         bata           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1ead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount wires (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor ories section wire (Data)         22 AWG	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PE  Amount wires 2  Outer diameter insulation 2,1 mm  Outer diameter tolerance core insulation 4:5 %  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  Datain wire (cross-section) 22 AWG  Material conductor wire opper 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 (atal ± 53 %  Ingredient freeness wire insulation (Data) 19  Diameter of single wires 24 AWG  Outer diameter wire insulation (Data) 22 AWG  Amount wires (Data) 24 AWG  Diameter of single wires (Data) 19  Diameter of single wires (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Conductor wire (Data) 19  Diameter of single wires (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Conductor wire (Data) 24 AWG  Conductor wire (Data) 25 AWG  Conductor wire (Data) 26 AWG  Conductor wire (Data) 26 AWG  Conductor wire (Data) 27 AWG  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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) 1ead-free, CFC-free, halogen-free Amount strands wire (Data) 19 Diameter of single wires Copper stranded wire, tinned Electrical function wire 24 AWG Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) 2 S % Ingredient freeness wire insulation (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Electrical function wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor conductor wire (Data) 22 AWG Conductor conductor wire (Data) 22 AWG Conductor conductor wire (Data) 23 AWG Conductor conductor wire (Data) 24 AWG Conductor conductor wire (Data) 25 AWG Conductor conductor wire (Data) 26 AWG Conductor wire (Data) 27 AWG Conductor wire (Data) 28 AWG Conductor wire (Data) 29 AWG Conductor wire (Data) 29 AWG	Outer-diameter (jacket)	6,9 mm
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)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         ± 53 %           Ingredient freeness wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         2           Amount strands wire (Data)         2           Diameter of single wires (Data)         2           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Meterial conductor wire (Data)         22 AWG <td>Tolerance outer diameter (sheath)</td> <td>±5%</td>	Tolerance outer diameter (sheath)	±5%
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) ± 53 % 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 Conductor wire solution (Data) 19 Diameter of single wires (Data) 22 AWG Conductor wire (Data) 23 AWG Conductor wire (Data) 24 AWG Conductor wire (Data) 25 AWG Conductor wire wire wire wire wi	Material wire insulation	PE
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) 224 AWG Material conductor wire consulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) 19 Diameter of single wire swire insulation (Data) 19 Diameter of single wire swire insulation (Data) 19 Diameter of single wire swire insulation (Data) 22 AWG Conductor crosssection wire Data Material wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) 19 Diameter of single wires (Data) 2 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 25 AWG Conductor wire (Data) 26 AWG Conductor wire (Data) 27 AWG Conductor wire (Data) 28 AWG Conductor wire (Data) 29 AWG Conductor wire (Data) 29 AWG Conductor wire (Data) 20 AWG Conductor wire wire wire wire wire wire wire wir	Amount wires	2
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) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire Data  Amount strands wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter 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 Material conductor wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Electrical function wire (Data) 22 AWG Conductor wire (Data) 29 AWG Conductor crosssection wire (Data) 20 AWG Conductor crosssection wire (Data) 20 AWG Conductor wire wire wire wire wire wire wire wir	Outer diameter insulation	2,1 mm
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) lead-free, CFC-free, halogen-free  Amount wires (Data) 2  Amount strands wire (Data) 19  Diameter of single wires (Data) 22 AWG  Material conductor wire (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Electrical function wire (Data) 22 AWG  Conductor crosssection wire (Data) 29 AWG  Material conductor wire (Data) 20 AWG	Outer diameter tolerance core insulation	±5%
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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) ±53 % 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 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
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) ± 53 %  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  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Amount strands (wire)	19
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)  Tolerance outer diameter wire insulation (data) ± 53 %  Ingredient freeness wire insulation (Data)  lead-free, CFC-free, halogen-free  Amount wires (Data)  Diameter of single wires (Data)  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  Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A	Diameter of single wires	24 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 %  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) 22 AWG  Electrical function wire (Data) Power  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Conductor crosssection (wire)	24 AWG
Electrical function wire Data  Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1,5 mm  Tolerance outer diameter wire insulation (data) ± 53 % 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) 22 AWG Material conductor wire (Data) Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity min. wire 4,5 A	Drain wire (cross-section)	22 AWG
Material wire insulation (Data)  PE Outer diameter wire insulation (Data)  1,5 mm Tolerance outer diameter wire insulation (data) ± 53 % 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)  22 AWG Electrical function wire (data)  Power Nominal voltage AC max.  300 V Current load capacity (standard)  Current load capacity min. wire  4,5 A	Material conductor wire	copper stranded wire, tinned
Outer diameter wire insulation (Data)  1,5 mm  Tolerance outer diameter wire insulation (data) ± 53 %  Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free  Amount wires (Data)  2  Amount strands wire (Data)  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  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A	Electrical function wire	
Tolerance outer diameter wire insulation (data) ± 53 % 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  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Material wire insulation (Data)	
Ingredient freeness wire insulation (Data)  Iead-free, CFC-free, halogen-free  Amount wires (Data)  2  Amount strands wire (Data)  Diameter of single wires (Data)  22 AWG  Conductor crosssection wire (Data)  Material conductor wire (Data)  Electrical function wire (data)  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A	Outer diameter wire insulation (Data)	•
Amount wires (Data)  2 Amount strands wire (Data)  Diameter of single wires (Data)  22 AWG  Conductor crosssection wire (Data)  22 AWG  Material conductor wire (Data)  22 AWG  Material conductor wire (Data)  Copper stranded wire, tinned  Electrical function wire (data)  Power  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A		
Amount strands wire (Data)  Diameter of single wires (Data)  Conductor crosssection wire (Data)  Material conductor wire (Data)  Electrical function wire (data)  Power  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A	Ingredient freeness wire insulation (Data)	, , ,
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  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A	Amount wires (Data)	
Conductor crosssection wire (Data)  Material conductor wire (Data)  Electrical function wire (data)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  4,5 A	Amount strands wire (Data)	
Material conductor wire (Data) copper stranded wire, tinned  Electrical function wire (data) Power  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Diameter of single wires (Data)	
Electrical function wire (data)  Power  Nominal voltage AC max.  300 V  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity min. wire  4,5 A	. , ,	
Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Material conductor wire (Data)	··
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A	Electrical function wire (data)	
Current load capacity min. wire 4,5 A		
Current load capacity min. Wire (Data) 6 A		4,5 A
	Current load capacity min. Wire (Data)	6 A

Travel speed (C-track)

No. of torsion cycles

Torsion stress

Torsion speed



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
No. of bending cycles (C-track)	1 Mio.
Traversing distance (C-track)	5 m

3 m/s

2 Mio.

± 30 °/m

35 cycles/min