

M12 male 0° A-cod. with cable

PUR AWG24+22 shielded vt UL/CSA+drag ch. 4.5m

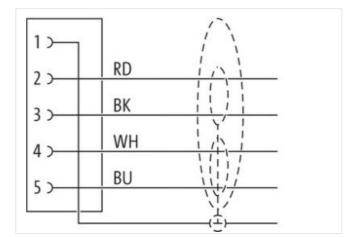
DeviceNet, CANopen Male straight M12, 5-pole Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

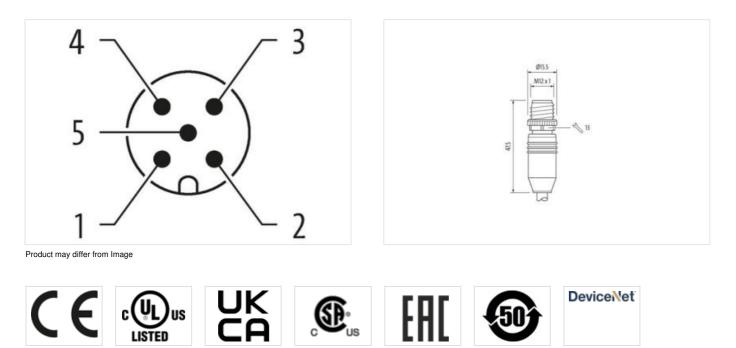
Link to Product



Illustration







CANopen

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: 2024-05-21



Cable length	4,5 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	4048879607520
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 1.5 kV
Rated surge voltage Material group (IEC 60664-1)	1,5 KV
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

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: 2024-05-21



Able on bending radiu Attention: Cheere we the permissible bending radii when laying cables, as the IP protection class can be analygered by accessive bending forces. Contornity Product standard DNE N5 1078-2-101 (M12) Installation I Cable View View Contornity View View Standard Cable View View Contornity View View Standard Cable View View Standard Standard View View Standard Standard View View Standard Standard View View View Standard Standard Standard View View View View Standard Standard Standard View	Additional condition temperature range	depending on cable quality
Note on strain relief Protect the connectors by suitable measures from mechanical loads, o.g. by the usage of cable los. Note on bending radius Centerino: Ceservo the permissible bending radii when laying cables, as the IP protection class can be exclange and protes. Conterino: Unitation: Ceservo the permissible bending radii when laying cables, as the IP protection class can be exclange and protes. Installation (Cable Unitation: Ceservo the permissible bending radii when laying cables, as the IP protection class can be exclange and protes. Conternity Unitation: Ceservo the permissible bending radii when laying cables, as the IP protection class can be exclange and protes. Conternity Description: Ceservo the permissible bending radii when laying cables, as the IP protection class can be exclange and protect. Conternity Description: Ceservo the permissible bending radii when laying cables, as the IP protection class can be exclange and protect. Conternity Description: Ceservo the permissible bending radii when laying cables, as the IP protection class can be exclange and protect. Conternity Weat State Outpermissible bending radii when laying cables. Description cables cables. Conternity Weat State Outpermissible bending radii when laying cables. Description cables cables. Conternity State Description cables cables. Description cables. D	Important installation notes	
Note on bending radius Attention: Obeore the permissible bending radii when laying cables, as the IP protection class can be endangymorb by excessive bending loces. Contornity Product standard DNE N5 1076-2-101 (M12) Installation (Cable View	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard DNE No 60768-010 (M12) treatardistion (Cable www.exa.exa.exa.exa.exa.exa.exa.exa.exa.exa	Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Instalistion Cable wire atragement (white, blue), (black, red) Cable identification 803 Jacket Color violet Type of Carificate UFRus Amount stranding 1 Stranding (ype 2) 2 Stranded Joints twisted Cable shieling (ype 2) 5 Stranded Joints twisted Cable shieling (ype 2) 9 S	Conformity	
Instalistion Cable wire atragement (white, blue), (black, red) Cable identification 803 Jacket Color violet Type of Carificate UFRus Amount stranding 1 Stranding (ype 2) 2 Stranded Joints twisted Cable shieling (ype 2) 5 Stranded Joints twisted Cable shieling (ype 2) 9 S	Product standard	DIN EN 61076-2-101 (M12)
wire arrangement(white, blue), (black, red)Cable identification803Label ColonvidelType of CertificatecURusAmount Stranding1Stranding2 wice lowisateAmount Stranding (type 2)1Stranding (type 2)2 Stranda Joints InvitedCable shielding (type 2)2 Stranda Joints InvitedCable shielding (type 2)5 %Bandring (type 2)5 %Bandring (type 2)6 %Stranding (type 2)6 %Stranding (type 2)6 %Cable shielding (coverage)6 %BandringFoilDrain wire (cross section)22 AWGWire arrangement(white, blue), (black, red)Cable walking (towerage)6 %Bandring6 %Store hardness jacket90 ± \$ Shore AFreedom Itom Ingredients (blackin)8 % %Cable walking ingredients (blackin)8 % %Cable walking ingredients (blackin)8 % %Cabler diameter (blackin)8 % %Cabler diameter installation2 %Carler diameter installation8 % %Carler diameter installation1 % %Carler diameter installation8 % %Carler diameter installation1 % %		
Cable identification 603 Lacket Cloir vielet Type of Cartificate URus Amount stranding 1 Stranding 2 wires hwisted Amount stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Cable shielding (coverage) 65 % Banding Foil Train wire (cross-section) 22 AWG wire arrangement (White, Due), (black, red) Cable shielding (coverage) 65 % Store family 63.1 2 g/m Material jacket PUR Store family 63.1 2 g/m Material wire instranding 63.1 2 g/m Material wire instranding 5 Shore A Freedom from fignetients ((acket) 9.5 Shore A Tolerance outer diameter (sheath) 5 % Material wire instranding 9 mm Tolerance outer diameter (sheath) 5 % Shore family 5 % Shore family 19 Diameter of single wire 19 Diameter of single wire instanding 15	·	
Jacket Color violet Type of Certificate cURus Annount stranding 1 Stranding 2 wires twisted Annount stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Cable shelding (coverage) 65 % Banding Fol Drain wire (cross-section) 22 AWG Cable shelding (coverage) 65 % Banding Fol Drain wire (cross-section) 22 AWG Material jocket PUR Store hard/ness jacket 90 ± 5 Shore A Freedom from ingersfients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (heath) 1 5 % Material wire insulation PE Anount wire 2 Outer diameter (insulation 4 5 % Shore D Duffer diameter (insulation 4 5 Shore D Shore hard/ness wire insulation 4 5 Shore D Duffer diameter insulation 4 5 Shore D Duffer diameter filterance core insulation 4 5 % Shore D Diameter of singlater of single wino	-	
Type of Certificate cUPus Amount stranding 1 Stranding 2 wires twisted Amount stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Cable shelding (type) copper braid, timed Cable shelding (type) copper braid, timed Cable shelding (type) copper braid, timed Cable shelding (type) 22 AWG Dim wire (cross-section) 22 AWG Waterial jacket PUR Shore hardness jacket 90 s 5 Shore A Freedom from ingredients (jacket) 6.3 mm Older diameter (jacket) 6.3 mm Toferance outer diameter (saket) 6.3 mm Toferance outer diameter (saket) 6.4 mm Cuber diameter insulation 2.1 mm Cuber diameter insulation 6.4 ± 5 Shore D Cuber diameter insulation 6.4 ± 5 Shore D Diameter of single wires 24 AWG Conduct diameter (wire) 19 Diameter of single wires 24 AWG Conduct diameter wire insulation (bata) 25 % Diameter of		
Amount stranding 1 Stranding 2 wires twisted Amount stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Cable shelding (cycerage) 65 % Banding Foil Drain wire (cross-section) 22 AWG wire atrangement (white, blue), (black, red) Cable shelding (cycerage) 63 % Shore hardness jackat 90 ± 5 Shore A Freedom from ingredients (jacket) 100 ± 5 Shore A Freedom from ingredients (jacket) 100 ± 5 % Auterial jacket 90 ± 5 Shore A Tolerance outer diameter (sheath) 2 5 % Material wire insulation 2.1 mm Coller diameter (sheath) 2 5 % Shore bardness wire insulation 2.1 mm Coller diameter insulation 2.4 SNore D Norent strands (wire) 19 Data diameter insulation 104 ± 5 Shore D D		
Stranding 2 wires twisted Amount stranding (type 2) 1 Stranding (type 2) 2 Stranded joints twisted Cable shielding (coverage) 65 % Banding Foil Drain wire (cross-section) 22 AWG wire arrangement (white, blue), (black, red) Cable shielding (coverage) 65 % Banding Foil Drain wire (cross-section) 22 AWG wire arrangement (white, blue), (black, red) Cable weigh 65.12 g/m Material jacket PUF Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 6.9 mm Tolerance outer diameter (scheath) ± 5 % Meterial wire insulation PE Amount wires 2 Outer diameter insulation 64 ± 5 Shore D Ingredient freeness wire insulation 64 ± 5 Shore D Diameter of single wires 24 AWG Conductor crossection (wire) 19 Diameter of single wires 24 AWG Conductor wire insulation (Data) 15 m Diameter of single wires (Data) 19 <td><i></i></td> <td></td>	<i></i>	
Amount stranding (type 2) 1 Stranding (type 2) 2 Strandied joints twisted Cable shielding (type) coppor braid, finned Cable shielding (type) 65 % Banding Foil Drain wire (roses-section) 22 AWG wite 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) 1e3 free, carmium-free, CFC-free, halogen-free Outer-dimerter (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 4.1 mm Outer diameter insulation 4.4 WG Conductor crossesection (wire) 24 AWG Conductor crossesection (wire) 4.4 WG Conductor crossesection (wire) 1.5 mn Tolerance wire insulation (Data) 1.5 mn Tolerance wire insulation (Data) 1.5 mn <t< td=""><td>,</td><td></td></t<>	,	
Scherk B (1) 2 Stranded joints twisted Cable shielding (type) copper braid, timed Cable shielding (coverage) 65 % Banding Foil Drain wire (cross-section) 22 AWG wire arrangement (whie, bule), (black, red) Cable weigh 63,12 g/m Material jacket PUR Shore hardness igold 1 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free Outer diameter (iacket) 6.9 mm Outer diameter insulation PE Amount wires 2 Outer diameter insulation PE Amount wires 2 Outer diameter insulation 2.1 mm Outer diameter insulation 64 ± 5 Shore D Ingredient freeness wire insulation 64 wire, CFC-free, halogen-free Amount wires 24 AWG Conductor consessection (wire) 24 AWG Drain wire (cross-section) 22 AWG Drain wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (data) 3.5 %	-	
Cable shelding (type) copper braid, linned Cable shelding (coverage) 55 % 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) 6,9 mm Outer-diametier (jacket) 6,9 mm Tolerance outer diameter (jacket) 5 % Material jacket PE Amount wires 2 Outer diameter (jacket) 5 % Shore hardness wire insulation 94 ± 5 Shore D Ingredient freeness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation 164 ± 5 Shore D Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Drain wire (cross-section) 22 AWG Material wire insulation (Data) 15 mm Tolerance outer diameter wire insulation (Data) 15 m Tolerance outer diameter wire insulation (Data) 15 mm		-
Cable shielding (coverage) 65 % Banding Foil Drain wire (cross-section) 22 AWG wire arrangement (white, blue), (black, red) Cable weigh 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 6.4 ± 5 % Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 19 Diameter of single wires 24 AWG Conductor crossection (wire) 24 AWG Conductor wire oppe stranded wire, finned Electrical function wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (data) 2.5 % User diameter wire insulation (Data) 1.5 mm Tolerance outer d		•
Banding Foil Drain wire (cross-section) 22 AWG wire arrangement (with, blue), (black, red) Cable weigh 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) e.8 free, cadmium-free, CFC-free, halogen-free Outer diameter (sheath) ± 5 % Material wire insulation PE Amount wires 2 Outer diameter insulation 2.1 mm Outer diameter insulation 4.5 % Shore hardness wire insulation 1.6 % Shore hardness wire insulation 1.6 % Diameter of single wires 2.4 AWG Conductor crossection (wire) 2.4 AWG Diameter of single wires 2.4 AWG Conductor rows enclassection (wire) 2.4 AWG Drain wire (cross-section) 2.2 AWG Material conductor wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (data) ±53 % Ingredient freeness wi		
Drain wire (cross-section) 22 AWG wire arrangement (white, bule), (black, red) Cable weigth 63.12 g/m Material jacket PUR Shore hardness jackot 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free Outer-diameter (jacket) 6.9 mm Tolarance outer diameter (sheath) ± 5 % Material wire insulation PE Amount wires 2 Outer diameter insulation 2.1 mm Outer diameter lolerance core insulation £ 1 % Shore hardness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation 19 Diameter of single wires 24 AWG Conductor cross-section 22 AWG Outer diameter wire insulation (Data) PE Outer diameter wire insulation (Data) 19 Diameter (cross-section) 22 AWG Conductor wire copper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) <td>3 (3)</td> <td></td>	3 (3)	
wire arrangement(white, blue), (black, red)Cable weight63,12 g/mMaterial jacketPURMaterial jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6,9 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPEAmount wires2Outer diameter risulation2,1 mmOuter diameter risulation£ 5 %Shore hardness wire insulation64 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)19Diameter of single wires24 AWGConductor orsessection (wire)24 AWGConductor wirecopper stranded wire, finnedElectrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (Data)2PEAmount strands (wire)Diameter of single wires (Data)2,5 %Conductor wirecopper stranded wire, finnedElectrical function wireDataMaterial conductor wirecopper stranded wire, finnedElectrical function wire24 AWGConductor consessection (Otata)1,5 mmTolerance outer diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (Data)1,5 mmDiameter of single wires (Data)2 AWGConductor consessection wire (Data) </td <td>Banding</td> <td></td>	Banding	
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 (or insulation 2,1 mm Outer diameter lolerance core insulation ± 5 % Shore hardness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount vires 2 Outer diameter or single wires 24 AWG Conductor crossescotion (wire) 24 AWG Conductor crossessection (wire) 24 AWG Conductor vire copper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulati	Drain wire (cross-section)	
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 Tolarance outer diameter (jacket) ± 5 % Material wire insulation PE Amount wires 2 Outer diameter insulation ± 5 % Shore hardness wire insulation ± 5 % Shore hardness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation 164 ± 5 Shore D Ingredient freeness wire insulation 19 Dameter of single wires 24 AWG Conductor crossesction (wire) 24 AWG Drain wire (cross-section) 22 AWG Material onductor wire opper stranded wire, tinned Electrical function wire Data Material onductor wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Ingredient freeness wire insulation (Data) 1.9 Duter diameter wire insulation (Data) 1.9 Duter diameter wire insulation (Data) 2.2 AW	wire arrangement	
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free Outer-diameter (jacket) 6,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PE Amount wires 2 Outer diameter rolerance core insulation 2,1 mm Outer diameter tolerance core 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 Drain wire (cross-section) 22 AWG Material urie insulation (Data) PE Outer diameter wire insulation (Data) PE Outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 3 % Ingredient freeness wire (Data) 2 Outer diameter wire (Data) 2.4 AWG Dotaret diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wi		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) 1.5 % Material wire insulation PE Amount wires 2 Outer diameter of or insulation 2.1 mm Outer diameter tolerance core insulation 6.4 ± 5 Shore D Ingredient freeness wire insulation 6.4 ± 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 wire insulation (Data) PE Outer diameter wire insulation (Data) PE Outer diameter wire insulation (Data) PE Outer diameter wire (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 3 % Ingredient freeness wire insulation (Data) 1.5 3 % Ingredient freeness wire (Data) 2.2 AWG Conductor crosssection wire (Data) 2.2 AWG Conductor crosssection wire (Data) 1.5 3 % Ingredient freeness wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (data) 2.2 AWG <t< td=""><td>Material jacket</td><td>PUR</td></t<>	Material jacket	PUR
Outer-diameter (jacket) 6,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PE Arnount wires 2 Outer diameter insulation £ 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 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) 1,5 mm Tolerance outer diameter wire insulation (Data) 1,2 MGG Aroount strands wire (Data) 2 Diameter of single wir		
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PE Amount wires 2 Outer diameter insulation 2,1 mm Outer diameter 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 Conductor crosssection (wire) 24 AWG 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) 1,2 MG Amount strands wire (Data) 2 Amount strands wire (Data) 2 AWG Conductor crosssection wire (Data) </td <td>Freedom from ingredients (jacket)</td> <td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td>	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 Dlameter 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 conductor wire Data Outer diameter wire insulation (Data) PE Outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (bata) ± 53 % Ingredient freeness wire insulation (bata) 1.5 mm Tolerance outer diameter wire insulation (bata) ± 23 WG Conductor cossesetion wire (bata) 1.9 Diameter of single wires (Data) 2 Amount wires (Data) 22 AWG Conductor wire (Data) 22 AWG Co	Outer-diameter (jacket)	6,9 mm
Amount wires2Outer diameter insulation2,1 mmOuter diameter insulation± 5 %Shore hardness wire insulation64 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)19Diameter of single wires24 AWGConductor crosssection (wire)24 AWGDrain wire (cross-section)22 AWGMaterial conductor wirecopper stranded wire, tinnedElectrical function wireDataOuter diameter wire insulation (Data)PEOuter diameter wire insulation (data)± 53 %Ingredient freeness wire insulation (data)± 53 %Ingredient freeness wire insulation (data)± 53 %Ingredient freeness wire insulation (data)± 2Amount wires (Data)19Diameter of single wires (Data)19Diameter of single wires (Data)22 AWGConductor crossection wire (Data)22 AWGConductor wire (Data)22 AWGConductor wire (Data)copper stranded wire, tinnedElectrical function wire (data)copper stranded wire, tinnedElectrical function wire (data)powerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load	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 wires (Data) 1,5 mm Diameter of single wires (Data) 2 Amount wires (Data) 2 Amount wires (Data) 2 Amount wires (Data) 2 Conductor or sessection wire (Data) 22 AWG Conductor wires (Data) 22 AWG Conductor or wir	Material wire insulation	PE
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) 19 Diameter of single wires (Data) 2 Amount strands wire (Data) 2 Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Conductor wire (Data) copper stranded wire, tinned	Amount wires	2
Shore hardness wire insulation64 ± 5 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)19Diameter of single wires24 AWGConductor crosssection (wire)24 AWGDrain wire (cross-section)22 AWGMaterial conductor wirecopper stranded wire, tinnedElectrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (Data)19Diameter of single wires (Data)22 AWGAmount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor crossection wire (Data)22 AWGConductor wire (Data)copper stranded wire, tinnedElectrical function wire (Data)powerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (wint wire)4,5 ACurrent load capacity (wint wire)4,5 A	Outer diameter insulation	2,1 mm
Ingredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)19Diameter of single wires24 AWGConductor crosssection (wire)24 AWGDrain wire (cross-section)22 AWGMaterial conductor wirecopper stranded wire, tinnedElectrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (Data)1ead-free, CFC-free, halogen-freeAmount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor for single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGDiameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor wire (Data)22 AWGConductor wire (Data)20 per stranded wire, tinnedElectrical function wire (Data)20 per stranded wire, tinnedElectrical function wire (Data)20 per stranded wire, tinnedCorper stranded wire, tinned20 per stranded wire, tinnedElectrical function wire (Data)20 per stranded wire, tinnedCurrent load capacity (standard)00 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 ACurrent load capacity min. wire4,5 A	Outer diameter tolerance core insulation	±5%
Amount strands (wire)19Diameter of single wires24 AWGConductor crosssection (wire)24 AWGDrain wire (cross-section)22 AWGMaterial conductor wirecopper stranded wire, tinnedElectrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (Data)± 53 %Ingredient freeness wire insulation (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor crossection wire (Data)22 AWGConductor wire (Data)22 AWGConductor wire (Data)22 AWGConductor wire (Data)20 AWGConductor wire (Data)20 AWGConductor wire (Data)20 AWGCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Shore hardness wire insulation	64 ± 5 Shore D
Diameter of single wires24 AWGConductor crosssection (wire)24 AWGDrain wire (cross-section)22 AWGMaterial conductor wirecopper stranded wire, tinnedElectrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor wire (Data)20 AWGConductor wire (Data)20 AWGConductor wire (Data)20 AWGConductor wire (Data)20 AWGCourge tranded wire, tinnedElectrical function wire (Data)00 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crosssection (wire)24 AWGDrain wire (cross-section)22 AWGMaterial conductor wirecopper stranded wire, tinnedElectrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (data)± 53 %Ingredient freeness wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor wire (Data)22 AWGConductor wire (Data)20 wGMaterial conductor wire (Data)20 wGConductor wire (Data)20 wGConductor wire (Data)20 wGConductor wire (Data)20 wGConductor wire (Data)00 vCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Amount strands (wire)	19
Drain wire (cross-section)22 AWGMaterial conductor wirecopper stranded wire, tinnedElectrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (data)± 53 %Ingredient freeness wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor rosssection wire (Data)22 AWGMaterial conductor wire (Data)22 AWGConductor wire (Data)20 PowerMaterial conductor wire (Data)00 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Diameter of single wires	24 AWG
Material conductor wirecopper stranded wire, tinnedElectrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (data)± 53 %Ingredient freeness wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount wires (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor wire (Data)22 AWGMaterial conductor wire (Data)20 per stranded wire, tinnedElectrical function wire (data)PowerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Conductor crosssection (wire)	24 AWG
Electrical function wireDataMaterial wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (data)± 53 %Ingredient freeness wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount wires (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGConductor wire (Data)22 AWGMaterial conductor wire (Data)20 per stranded wire, tinnedElectrical function wire (data)PowerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Drain wire (cross-section)	22 AWG
Material wire insulation (Data)PEOuter diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (data)± 53 %Ingredient freeness wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGMaterial conductor wire (Data)22 AWGElectrical function wire (data)PowerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)4,5 A	Material conductor wire	copper stranded wire, tinned
Outer diameter wire insulation (Data)1,5 mmTolerance outer diameter wire insulation (data)± 53 %Ingredient freeness wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGMaterial conductor wire (Data)copper stranded wire, tinnedElectrical function wire (data)PowerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Electrical function wire	Data
Tolerance outer diameter wire insulation (data)± 53 %Ingredient freeness wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGMaterial conductor wire (Data)22 AWGElectrical function wire (data)PowerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Material wire insulation (Data)	PE
Ingredient freeness wire insulation (Data)lead-free, CFC-free, halogen-freeAmount wires (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGMaterial conductor wire (Data)22 AWGElectrical function wire (data)PowerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Outer diameter wire insulation (Data)	1,5 mm
Amount wires (Data)2Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGMaterial conductor wire (Data)22 AWGMaterial conductor wire (Data)copper stranded wire, tinnedElectrical function wire (data)PowerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Tolerance outer diameter wire insulation (data)	± 53 %
Amount strands wire (Data)19Diameter of single wires (Data)22 AWGConductor crosssection wire (Data)22 AWGMaterial conductor wire (Data)22 AWGMaterial conductor wire (Data)copper stranded wire, tinnedElectrical function wire (data)PowerNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,5 A	Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
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 wires (Data)	2
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 (Data)	19
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)	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 (Data)	22 AWG
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)	copper stranded wire, tinned
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A	Electrical function wire (data)	Power
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 (Data) 6 A	Current load capacity min. wire	4,5 A
	Current load capacity min. Wire (Data)	6 A

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: 2024-05-21



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)	30 °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
Travel speed (C-track)	3 m/s
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min

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: 2024-05-21