

## M12 male 0° / M12 female 0° B-cod. shielded

PUR AWG24+22 shielded vt UL/CSA+drag ch. 15m

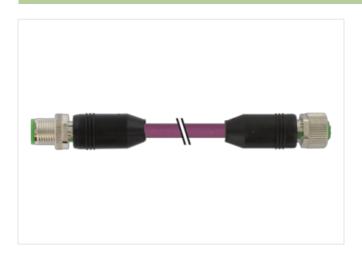
Male straight – female straight M12 – M12, 4-pole B-coded shielded with cable sleeves

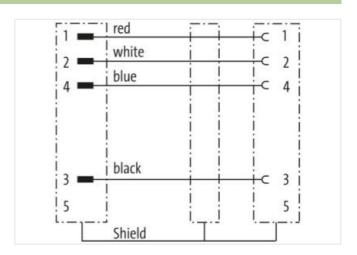
Plastic housings with good resistance against chemicals and oils.

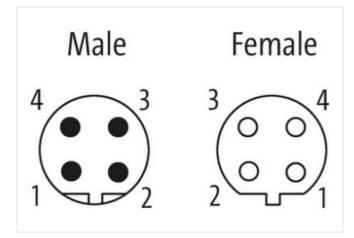
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

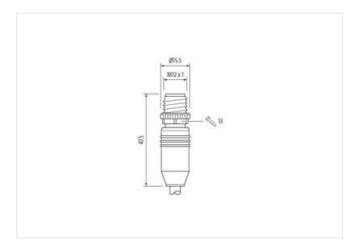
## **Link to Product**

## Illustration



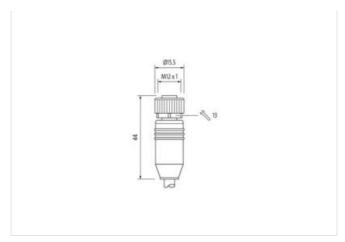








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Product may differ from Image





Cable length	15 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	В
Material	PUR
No. of poles	4
Width across flats	SW13
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	В
Material	PUR
No. of poles	4
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	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	EC001855
customs tariff number	85444290
GTIN	4048879141734
Packaging unit	1
Electrical data   Supply	



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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
Diagnostics	
Status indication LED	no
Device protection   Electrical	
•	
Degree of protection (EN IEC 60529)	IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage  Material group (IEC 60664-1)	1,5 kV
, ,	<u>'</u>
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
·	District the connectors by quitable messures from mechanical leads of a by the upage of cable ties
Note on strain 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
Note on bending radius	endangered by excessive bending forces.
Conformity	
<b>Conformity</b> Product standard	DIN EN 61076-2-101 (M12)
	DIN EN 61076-2-101 (M12)
Product standard	DIN EN 61076-2-101 (M12) 803
Product standard  Installation   Cable	
Product standard  Installation   Cable  Cable identification	803
Product standard Installation   Cable Cable identification Jacket Color	803 violet
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate	803 violet cURus
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding	803 violet cURus
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding	803 violet cURus 1 2 wires twisted
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)	803 violet cURus 1 2 wires twisted 1
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)	803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 %
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding	803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)	803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)  wire arrangement	803 violet cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red)
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)  wire arrangement  Traversing distance (C-track)	803 violet cURus  1 2 wires twisted  1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 5 m
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)  wire arrangement  Traversing distance (C-track)  Cable weigth	803 violet cURus  1 2 wires twisted  1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 5 m 63,12 g/m
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket	803 violet cURus  1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 5 m 63,12 g/m PUR
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket	803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  5 m  63,12 g/m  PUR  90 ± 5 Shore A
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  5 m  63,12 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  5 m  63,12 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  6,9 mm
Product standard  Installation   Cable  Cable identification  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Drain wire (cross-section)  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	803  violet  cURus  1  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  65 %  Foil  22 AWG  (white, blue), (black, red)  5 m  63,12 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free

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: 2024-05-07



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Outer diameter insulation         2,1 mm           Outer diameter (bitrance coro insulation)         4 ± 5 % %           Shore hardness wire insulation         64 ± 5 Shore D           Ingredient (reeness wire insulation)         64 ± 5 Shore D           Annount strands (vier)         19           Dameter of single wiree         24 AWG           Conductor crosssection (vivir)         24 AWG           Dameter of single wiree         29 AWG           Material conductor wire         opper standed wire, tenned           Electrical function wire         Department outer diameter wire insulation (clas)           Material conductor wire         PE           User diameter wire insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (clas)         ± 53 %           Ingredient freeness wire insulation (bata)         ± 53 %           Ingredient freeness wire insulation (bata)         ± 53 %           Ingredient freeness wire insulation (bata)         ± 22 AWG           Obundance outer diameter wire insulation (bata)         ± 25 %           Ingredient freeness wire insulation (bata)         ± 24 AWG           Dameter of single wires (bata)         ± 2 AWG           Dameter of single wires (bata)         ± 2 AWG           Conductor crossaccion wire (bata)         ± 2 AWG	Amount wires	2
Shore hardness wire insulation		
Shore hardness wire insulation	Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation   Lead-Free, CFC-free, halogen-free   Amount at artanda (wire)   19   Diameter of single wires   24 AWG   Conductor crosssoction (wire)   24 AWG   Darial wire (cross-section)   22 AWG   Malarial conductor wire   copper stranded wire, timed   Electrical function wire   Data   Marierial 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)   2.4 MVG   Amount strands wire (Data)   19   Amount wires (Data)   2.2 AWG   Diameter of single wires (Data)   2		
Amount strands (wire) 19 Diameter of single wires 24 AWG Conductor crossection) 22 AWG Material conductor wire Consessection) 22 AWG Material conductor wire Coper stranded wire, linned Electrical function wire Data Electrical resistance oracing wire (Data) Oracing function wire Data Electrical resistance oracing wire (Data) Oracing function wire Data Electrical resistance oracing wire (Data) Oracing function wire Data Data Data Data Data Data Data Dat	Ingredient freeness wire insulation	
Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Diam 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)         45 %           Ingredient freeness wire insulation (Data)         19           Amount wires (Data)         2           Amount strands wire (Data)         19           Damater of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         22 AWG           Conductor wire (Data)         22 AWG           Conductor wire (Data)         20 pper stranded wire, tinned           Electrical function wire (Data)         20 pper stranded wire, tinned           Electrical function wire (Data)         20 pper stranded wire, tinned           Current load capacity min. Wire (Data)         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Q ± 10		
Conductor crossaction (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           Under diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1 ead-free, CPC-free, halogen-free           Amount strands wire (Data)         2           Diameter of single wires (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crossacction wire (Data)         22 AWG           Besterical function wire (data)         22 AWG           Material conductor wire (Data)         22 AWG           Current load capacity fires (Marka)         20 Copper stranded wire, tinned           Electrical function wire (data)         20 Power           Current load capacity firm. wire (data)         4.5 A           Current load capacity firm. wire (data)         6 A           Electrical resistance line constant wire (data)         70 Data           Characteristic impedance         120 C± 10 % @ 1 MHz           Characteristic impedance         120 C± 10 % @ 1 MHz		
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           Ingredient freeness wire insulation (Data)         ±53 %           Ingredient freeness wire insulation (Data)         ±64 free, CFC-Free, halogen-free           Amount wires (Data)         ±2           Diamoter of single wires (Data)         ±2 AWG           Conductor crosssection wire (Data)         ±2 AWG           Conductor vires (Data)         ±2 AWG           Electrical function wire (Data)         ±0 Div           Electrical function wire (data)         Power           Current load capacity fram, wire         4,5 A           Current load capacity fram, wire         4,5 A           Current load capacity fram, wire (data)         Power           Characteriesi impedance         120 Ω±10 % @ 1 MHz           Elect		
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)         1 ead-free, CFC-free, halogen-free           Amount strands wire (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 min, wire (Data)         4.5 A           Current load capacity min, wire (Data)         6 A           Electrical function wire (data)         Power           Electrical resistance lime constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Q/km           Electrical resistance coating wire (Data)         54 Q/km           AC withstand voltage (wire - shield)         2 k/V @ 60 s           Min. operating temperature (fixed)         80 °C		
Electrical function wire		
Material wire insulation (Data)         FE           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 (Data)         copper stranded wire, tinned           Electrical function wire (Data)         power           Nominal voltage AC max.         300 V           Current load capacity gitandard?         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         70 ΩKm           Electrical resistance leading wire (Data)         54 Ω/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Electrical presistance         400000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Electrical persperature (shield)         40 °C		
Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (data)         ± 53 %           Ingredient freeness wire insulation (Data)         2           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 fish wire         4,5 A           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 0 ± 10 % ⊕ 1 MHz           Electrical resistance coating wire (Data)         54 Ω/km           Electrical resistance (Sancia)         400 °C           AC withstand vollage (wire - wire)         2 k V ⊕ 60 s           Electrical re		
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 min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ωkm           Electrical resistance coating wire (Data)         54 Ωkm           AC withstand voltage (wire - wire)         2 k V @ 60 s           Electrical capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 k V @ 60 s           Min. operating temperature (istatic)         -40 °C           Max. operating temperature mix. (dynamic)         30 °C           Operating temperature mix. (dynamic)         70 °C <t< td=""><td></td><td></td></t<>		
Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Dameter of single wires (Data)         22 AWG           Conductor crossection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Nominal voitage 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)         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 aprating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperature min. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 109           Chemical resistance         Good, application-relat		
Amount wires (Data)         2           Amount strands wire (Data)         19           Dameter 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           Current load apacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical sunction 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 capaciting temperature (static)         40 °C           Min. operating temperature (static)         40 °C           Min. operating temperature (min. (dynamic)         30 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance		
Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crossection 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 (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ωkm           Electrical resistance coating wire (Data)         54 Ωkm           Electrical resistance coating wire (Data)         54 Ωkm           Electrical resistance voltage (wire - wire)         2 kV @ 60 s           Electric apacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Electric apacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operatin		
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           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           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           Electrical capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         30 °C           Filame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing		
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           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 0± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance line constant wire         78 Ω/km           Electrical resistance wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical resistance (inc expacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Max. operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         -30 °C           Pilame resistance         U. 1 S81 § 1100 FT2   IEC 60332-2-2   U. 1 581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         G		
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           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         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 Q/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric apacitance         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)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gli resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good,		
Electrical function wire (data)		
Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. 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           Basoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)		
Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (maximic)		
Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Q ± 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         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (installation)       x Outer diameter         Bending radius (fixed)       6 x Outer diameter		
Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         1 Mio.           No. of torsion cycles		to DIN VDE 0298-4
Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance $120 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega \text{/km}$ Electrical resistance coating wire (Data) $54 \Omega \text{/km}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Electric capaciting temperature (static) $40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance $4000 \text{ pF/km}$ Chemical resistance $4000 \text{ pF/km}$ Gaodine resistance $4000 \text{ pF/km}$ Good, application-related testing $4000 \text{ pF/km}$ Gaodine resistance $40000 \text{ pF/km}$ Chemical resistance $40000 \text{ pF/km}$ Good, application-related testing $40000 \text{ pF/km}$ Bending radius (installation) $40000 \text{ pF/km}$ AC with a final resistance $40000 \text{ pF/km}$ Chemical resistance $40000 \text{ pF/km}$ Good, application-related testing $40000 \text{ pF/km}$ Bending radius (installation) $40000 \text{ pF/km}$ AC with a final resistance $40000 \text{ pF/km}$ Bending radius (fixed) $40000 \text{ pF/km}$ Bending radius (fixed) $40000 \text{ pF/km}$ Final resistance $40000 \text{ pF/km}$ Bending radius (dynamic) $40000 \text{ pF/km}$ Travel speed (C-track) $40000 \text{ pF/km}$ Torsion stress $40000 \text{ pF/km}$		4,5 A
Electrical function wire (data) Power  Characteristic impedance $120 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega \text{/km}$ Electrical resistance coating wire (Data) $54 \Omega \text{/km}$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $-30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance $40000 \text{ pF/km} \text{ line} $	Current load capacity min. Wire (Data)	6 A
Characteristic impedance $120 \Omega \pm 10 \% \oplus 1  \text{MHz}$ Electrical resistance line constant wire $78 \Omega / \text{km}$ Electrical resistance coating wire (Data) $54 \Omega / \text{km}$ AC withstand voltage (wire - wire) $2  \text{kV} \oplus 60  \text{s}$ Electric capacitance $40000  \text{pF/km}$ AC withstand voltage (wire - shield) $2  \text{kV} \oplus 60  \text{s}$ Min. operating temperature (static) $-40  ^{\circ} \text{C}$ Max. operating temperature (fixed) $80  ^{\circ} \text{C}$ Operating temperature min. (dynamic) $-30  ^{\circ} \text{C}$ Operating temperature max. (dynamic) $70  ^{\circ} \text{C}$ 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 (dynamic)       10 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       1 Mio.         No. of torsion cycles       2 Mio.         Torsion stress $\pm 30  ^{\circ}/m$	Electrical function wire	Data
Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /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 DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion stress $\pm 30$ °/m		
Electrical resistance coating wire (Data) 54 \( \Omega / \text{km} \)  AC withstand voltage (wire - wire) 2 kV \( \omega \) 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV \( \omega \) 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 \( \circ \) 1100 FT2   IEC 60332-2-2   UL 1581 \( \circ \) 1090  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Characteristic impedance	120 Ω ± 10 % @ 1 MHz
AC withstand voltage (wire - wire)  Electric capacitance  AC withstand voltage (wire - shield)  AC withstand voltage (wire - wire - shield)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - wire)  AC with fall wire - wire wire wire wire wire wire wire wire	Electrical resistance line constant wire	78 Ω/km
Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield)  Ac withstand voltage (wire - shield)  Ac withstand voltage (wire - shield)  An operating temperature (static)  An oc  Max. operating temperature (fixed)  An oc  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To oc  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  6 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  1 Mio.  No. of torsion cycles  2 Mio.  Torsion stress  ± 30 o/m	AC withstand voltage (wire - wire)	
Min. operating temperature (static)  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  6 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  1 Mio.  No. of torsion cycles  2 Mio.  Torsion stress  ± 30 °/m	Electric capacitance	40000 pF/km
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 DIN EN 60811-404   Good, application-related testing  Bending radius (installation) × Outer diameter  Bending radius (fixed) 6 × Outer diameter  Bending radius (dynamic) 10 × Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  6 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  1 Mio.  No. of torsion cycles  2 Mio.  Torsion stress  ± 30 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Max. operating temperature (fixed)	80 °C
Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Operating temperature min. (dynamic)	-30 °C
chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (installation)       x Outer diameter         Bending radius (fixed)       6 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       1 Mio.         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	chemical resistance	Good, application-related testing
Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Gasoline resistance	Good, application-related testing
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	Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Bending radius (installation)	x Outer diameter
Travel speed (C-track)         1 Mio.           No. of torsion cycles         2 Mio.           Torsion stress         ± 30 °/m	Bending radius (fixed)	6 x Outer diameter
No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 30 °/m	Travel speed (C-track)	1 Mio.
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 30 °/m
	Torsion speed	35 cycles/min