

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

PUR AWG24+22 shielded vt UL/CSA+drag ch. 16m

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

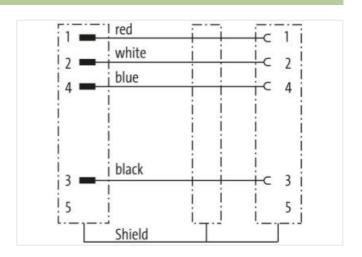
Plastic housings with good resistance against chemicals and oils.

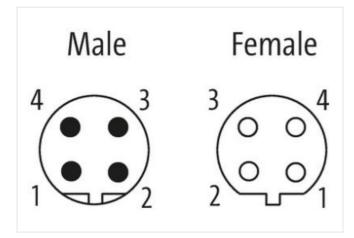
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

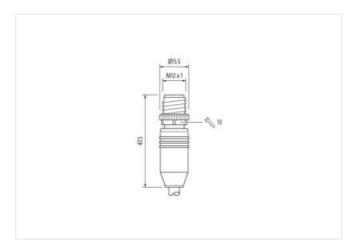
## **Link to Product**

## Illustration



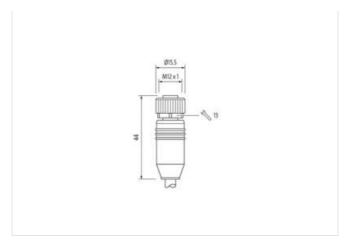








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Product may differ from Image





Cable length	16 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	4048879507011
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	1,5 kV
Material group (IEC 60664-1)	<u> </u>
Mechanical data	
	without
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	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
wire arrangement	(white, blue), (black, red)
Cable identification	803
Jacket Color	violet
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
-	2 wires twisted 1
Stranding	
Stranding Amount stranding (type 2)	1
Stranding Amount stranding (type 2) Stranding (type 2)	1 2 Stranded joints twisted
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type)	1 2 Stranded joints twisted copper braid, tinned
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage)	1 2 Stranded joints twisted copper braid, tinned 65 %
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding	1 2 Stranded joints twisted copper braid, tinned 65 % Foil
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section)	1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement	1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red)
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket	1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket	1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 6,9 mm
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 6,9 mm ± 5 %
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 6,9 mm

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: 2024-05-22



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Outer diameter blearance core insulation         2,1 mm           Outer diameter blearance 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 work insulation (Data)         PE           Cuter diameter 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           Ingredient freeness wire insulation (Data)         1,5 mm           Amount strands wire (Data)         2           Diameter of single wires (Data)         2           Conductor crosssection wire (Data)         2           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Sata)         20           Current load capacity wires (Pata)         20 pper stranded wire, tinned           Incertical procision wire (Sata)         2           Current load	Amount wires	2
Shore hardness wire insulation lead-free, CFC-free, halogen-free Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire)  Diameter of single wires  24 AWG Conductor crosssection (wire)  22 AWG Material conductor wire  Copper stranded wire, linned  Electrical function wire  Data  Material wire (noss-section)  PE Outer diameter wire insulation (Data)  PE Outer diameter wire insulation (Data)  Ingredient freeness wire insulation  Ingredient freeness wire insulation free i	Outer diameter insulation	2.1 mm
Shore hardness wire insulation lead-free, CFC-free, halogen-free  Amount strands (wire) 19  Diameter of single wires 24 AWG  Conductor crosssection (wire) 24 AWG  Material conductor wire copper stranded wire, tinned  Electrical function wire Data  Material substance swire insulation (Data) PE  Outer diameter wire insulation (Data) PE  Outer diameter wire insulation (Data) 1,5 mm  Tolerance (Data) 2,2 MVG  Diameter of single wires (Data) 19  Diameter of single wires (Data) 2,2 MVG  Conductor orossection wire (Data) 2,2 MVG  Material conductor wire (Data) 2,2 MVG  Material conductor wire (Data) 2,2 MVG  Current load capacity min. Wire (Data) 2,2 MVG  Current load capacity min. Wire (Data) 2,2 MVG  Current load capacity min. Wire (Data) 5,6 A  Electrical function wire (Data) 6,7 Mm  Data Electrical f	Outer diameter tolerance core insulation	±5%
Amount strands (wire)   19   Diameter of single wires   24 AWG		
Amount strands (wire)   19   Diameter of single wires   24 AWG		
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)         lead-free, CFC-free, halogen-free           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Mortinal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         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         79 G/km           Electrical resistance coating wire (Data)         2 kV @ 60 s		
Conductor crosssection (wire) 24 AWG Drain wire (cross-section) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire Data Material vire 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 outer d	,	
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 strands wire (Data)         2           Amount strands wire (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         22 AWG           Conductor wire (data)         Power           Nominal voltage AC max.         300 V           Current load capacity min. 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 Ω ± 10 % @ 1 MHz           Electrical resistance learned wire, wire)         2 kV @ 60 s           Electrical resistance coating wire (Data)         5 4 Ω/km           AC withstand voltage (wire -		
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)         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           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Sata)         22 AWG           Conductor wire (data)         Power           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Nominal voltage AC max.         300 V           Current load capacity win. wire         4.5 A           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 contain wire         78 Ω/m	( )	
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) ± 63 %  Ingredient freeness wire insulation (Data) ± 64 %  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) 25 AWG  Current load capacity (standard) 10 IN VDE 0298-4  Current load capacity (standard) 10 IN VDE 0298-4  Current load capacity min. Wire 10 A4 5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire (data) Power  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  Electric 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 (fixed) 80 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance Good, application-related testing  Bending radius (installation) × Outer diameter  Bending radius (installation) 10 × Outer diameter  Bending radius (installation) 10 × Outer diameter  Bending radius (installation) 10 × Outer diameter  Bending radius (opvanic) 10 × Outer diameter		
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           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 capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C		
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) 29 AWG Mominal 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) 9 AWG Electrical function wire (Data) 9 AWG 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 (static) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1551 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090 chemical resistance Good, application-related testing Good, application-related testing Good, application-related testing Bending radius (installation) × Outer diameter Bending radius (installation) 10 × Outer diameter Bending radius (installation) 5 m	,	
Ingredient freeness wire insulation (Data) 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) 23 AWG Material conductor wire (Data) 24 AWG Material conductor wire (Data) 25 AWG Material conductor wire (Data) 26 AWG Material voltage AC max. 300 V Current load capacity (standard) 10 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 \( \Omega \) 1 MHz Electrical resistance line constant wire 78 \( \Omega \) 1 MHz Electrical resistance coating wire (Data) 54 \( \Omega \) 1 MHz Electrical resistance coating wire (Data) 54 \( \Omega \) 60 s Electric agenciance 40000 \( \Omega \) 60 s Electric agenciance 40000 \( \Omega \) 60 s Electric agenciance 40000 \( \Omega \) 60 s Min. operating temperature (static) 40 \( \Chi \) Max. operating temperature (static) 40 \( \Chi \) Max. operating temperature max. (dynamic) 70 \( \Chi \) Flame resistance UL 1581 \( \String \) 1100 FT2   IEC 60332-2-2   UL 1581 \( \String \) 1900 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404   Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (installation) 70 \( \Chi \) Cuter diameter Bending radius (installation) 71 \( \Omega \) Outer diameter Bending radius (dynamic) 70 \( \Omega \) Outer diameter	. ,	
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 (Data)       6 A         Electrical function wire       Data         Electrical function wire (data)       Power         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance los constant wire       78 Ω/km         Characteristic impedance       120 Ω ± 10 % @ 1 MHz         Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electrical resistance voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (fixed)       80 °C         Operating temperature (fixed)       80 °C         Operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090		
Amount strands wire (Data)  Diameter of single wires (Data)  22 AWG  Conductor crosssection 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  Current load capacity min. Wire (Data)  Electrical function wire (data)  Power  Characteristic impedance  120 \( \Omega \text{ 10 } \text{ \infty} \) (mHz  Electrical resistance line constant wire  78 \( \Omega \text{ \infty} \) (mA  AC withstand voltage (wire - wire)  AC withstand voltage (wire - shield)  AC with stand voltage (wi		
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           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         Good, application-related testing           Gasol	,	
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           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)         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 testi	<u> </u>	
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  Electrical function wire Data  Electrical function wire 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 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 (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  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 m		
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 Ω ± 10 % @ 1 MHz  Electrical resistance line constant wire 78 Ω/km  Electrical resistance loating 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 Good, application-related testing  Gasoline resistance DIN E 6004, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m		
Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4,5 A         Current load capacity min. Wire (Data)       6 A         Electrical function wire       Data         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 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)       -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 (dyn	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         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 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)       -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	<u> </u>	
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 $\Omega \pm 10$ % @ 1 MHz  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  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  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m	Nominal voltage AC max.	300 V
Current load capacity min. Wire (Data) 6 A  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) $40  \text{cC}$ Max. operating temperature (static) $40  \text{cC}$ Max. operating temperature (ixed) $80  \text{cC}$ Operating temperature min. (dynamic) $70  \text{cC}$ Operating temperature max. (dynamic) $70  \text{cC}$ Flame resistance UL $1581  \text{\S}  1100  \text{FTz}     \text{EC}  60332-2-2     \text{UL}  1581  \text{\S}  1090$ Chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) $6  \text{x}  \text{Outer diameter}$ Bending radius (dynamic) $10  \text{x}  \text{Outer diameter}$ Bending radius (dynamic) $10  \text{x}  \text{Outer diameter}$ No. of bending cycles (C-track) $1  \text{Mio}$ .  Traversing distance (C-track) $5  \text{m}$	Current load capacity (standard)	to DIN VDE 0298-4
Electrical function wire Data Electrical function wire (data) Power Characteristic impedance 120 $\Omega$ ± 10 % @ 1 MHz 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  Electric capacitince 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	Current load capacity min. wire	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) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $-40 \degree \text{C}$ Max. operating temperature (fixed) $80 \degree \text{C}$ Operating temperature min. (dynamic) $-30 \degree \text{C}$ Operating temperature max. (dynamic) $70 \degree \text{C}$ 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 (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	Current load capacity min. Wire (Data)	6 A
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) $2 \text{ kV} @ 60 \text{ s}$ 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 $0 \text{ UL } 1581 \text{ § } 1100 \text{ FT2} \text{   IEC } 60332 \cdot 2 \cdot 2 \cdot 2 \text{   UL } 1581 \text{ § } 1090$ chemical resistance $0 \text{ Good}$ , application-related testing $0 \text{ Good}$ , application-related testing $0 \text{ olimitation}$ Gasoline resistance $0 \text{ DIN EN } 60811 \cdot 404 \cdot 1 \text{ Good}$ , application-related testing $0 \text{ Bending radius } (\text{installation})$ Ending radius (installation) $0 \text{ x Outer diameter}$ Bending radius (dynamic) $0 \text{ to x Outer diameter}$ Bending radius (dynamic) $0 \text{ to x Outer diameter}$ Bending radius (dynamic) $0 \text{ to x Outer diameter}$ Bending radius (C-track) $0 \text{ to x Outer diameter}$	Electrical function wire	Data
Electrical resistance line constant wire Electrical resistance coating wire (Data)  AC withstand voltage (wire - wire)  Electric capacitance  40000 pF/km  AC withstand voltage (wire - shield)  Electric capacitance  Electric capacitance  AC withstand voltage (wire - shield)  Electric capacitance  Electric capacitan	Electrical function wire (data)	Power
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  Bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m	Characteristic impedance	120 Ω ± 10 % @ 1 MHz
AC withstand voltage (wire - wire)  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  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	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  No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield)  Min. operating temperature (static)  Av °C  Max. operating temperature (fixed)  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 (dynamic)  Traversing distance (C-track)  5 m	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  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  No. of bending cycles (C-track)  1 Mio.  Traversing distance (C-track)  5 m	Electric capacitance	40000 pF/km
Max. operating temperature (fixed)  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  No. of bending cycles (C-track)  1 Mio.  Traversing distance (C-track)  5 m	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (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)  No. of bending cycles (C-track)  1 Mio.  Traversing distance (C-track)  5 m	vlin. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)  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  No. of bending cycles (C-track)  1 Mio.  Traversing distance (C-track)  5 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  No. of bending cycles (C-track)  1 Mio.  Traversing distance (C-track)  5 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 No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 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  No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m	-lame 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  No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 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  No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m	Gasoline resistance	Good, application-related testing
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	Dil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m	Bending radius (installation)	x Outer diameter
No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m	Bending radius (fixed)	6 x Outer diameter
No. of bending cycles (C-track) 1 Mio.  Traversing distance (C-track) 5 m	Bending radius (dynamic)	10 x Outer diameter
Traversing distance (C-track) 5 m		1 Mio.
		5 m
		3 m/s
No. of torsion cycles 2 Mio.		2 Mio.
Torsion stress ± 30 °/m	<u> </u>	± 30 °/m
Torsion speed 35 cycles/min		