

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

PUR AWG24+22 shielded vt UL/CSA+drag ch. 1.2m

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

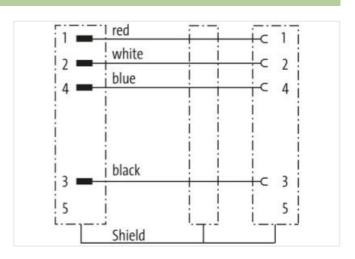
Plastic housings with good resistance against chemicals and oils.

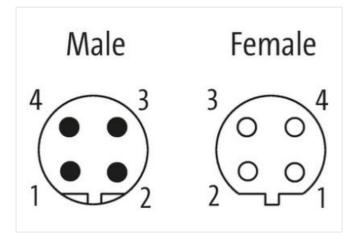
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

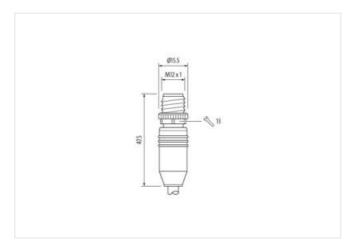
Link to Product

Illustration



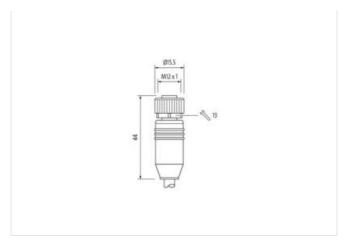








stay connected



Product may differ from Image





Cable length	1,2 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	4048879474146	
Packaging unit	1	
Electrical data Supply		



stay connected

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)	I
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	
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	Attention: 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
Amount stranding (type 2)	1
Stranding (type 2)	
· · · · ·	2 Stranded joints twisted
Cable shielding (type)	2 Stranded joints twisted copper braid, tinned
Cable shielding (type) Cable shielding (coverage)	
	copper braid, tinned
Cable shielding (coverage)	copper braid, tinned 65 %
Cable shielding (coverage) Banding	copper braid, tinned 65 % Foil
Cable shielding (coverage) Banding Drain wire (cross-section)	copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red)
Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement	copper braid, tinned 65 % Foil 22 AWG
Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth	copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m
Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket	copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR
Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket	copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red) 63,12 g/m PUR 90 ± 5 Shore A
Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	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
Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	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: 2024-06-23



stay connected

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 Electrical Processor wire (Sata) 20 pwer Nominal	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 free free free free free free free f	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) 5,6 A Electrical function wire (Data) 5,6 A Electrical function wire (Data) 6,7 A Wire diameter outer wire (Data) 6,7 A Wire diameter outer outer outer (Data) 6,7 A Wire diameter outer out	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 line constant wire 78 G/km		
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 line constant wire 78 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 apparature min. (dynamic) -30 °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 (dynamic) 10 × Outer diameter Bending radius (operated) 11 Mio. Traversing distance (C-track) 5 m		
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) 5 AURM Electrical function wire (Data) 5 AURM Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km Electrical resistance coating wire (Data) 5 AURM 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) 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 Oil resistance DIN EN 60811-404 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 Mominal voltage AC max. 300 V Current load capacity fini. wire 4.5 A Current load capacity min. wire 4.5 A Current load capacity min. wire (Data) 6 A Electrical function wire (Data) 6 A Electrical function wire (Data) Power Characteristic impedance 120 \Omega \text{1 MHz} Electrical resistance line constant wire 78 \Omega \text{Km} Electrical resistance coating wire (Data) 54 \Omega \text{Km} Electrical resistance coating wire (Data) 54 \Omega \text{Km} Cwithstand voltage (wire - wire) 2 kV \text{ 60 s} Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV \text{ 60 s} 8 C Operating temperature (static) 40 \text{ C} Max. operating temperature (static) 40 \text{ C} Max. operating temperature (fixed) 80 \text{ C} Operating temperature max. (dynamic) 70 \text{ C} Flame resistance UL 1581 \text{ 1100 FT2 IEC 60332-2-2 UL 1581 \text{ 1990} 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 \text{ Couter diameter} Bending radius (dynamic) 10 x 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 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 (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 40000pF/km AC withstand voltage (wire - shield) $2 \text{kV} @ 60 \text{s}$ Electric capaciting temperature (static) 40cC Max. operating temperature (static) 40cC Max. operating temperature (ixed) 80cC Operating temperature min. (dynamic) 70cC Operating temperature max. (dynamic) 70cC 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) 1Mio . Traversing distance (C-track) 5m	Current load capacity (standard)	to DIN VDE 0298-4
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 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 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 pF/km AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ 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 $0 \text{ UL } 1581 \text{ § } 1100 \text{ FT2} \text{ IEC } 60332 \cdot 2 \cdot 2 \cdot \text{ UL } 1581 \text{ § } 1090$ chemical resistance 0 Good , application-related testing 0 Good , application-related testing 0 olimitation Gasoline resistance $0 \text{ DIN } \text{ EN } 60811 \cdot 404 \cdot \text{ Good}$, application-related testing 0 olimitation Bending radius (installation) $0 \text{ x Outer diameter}$ Bending radius (fixed) $0 \text{ x Outer diameter}$ Bending radius (dynamic) $0 \text{ x Outer diameter}$ Bending cycles (C-track) $0 \text{ x Outer diameter}$ Traversing distance (C-track) $0 \text{ x Outer diameter}$	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) Bending radius (dynamic) Traversing distance (C-track) UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Good, application-related testing DIN EN 60811-404 Good, application-related testing x Outer diameter 1 No. of bending cycles (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		