

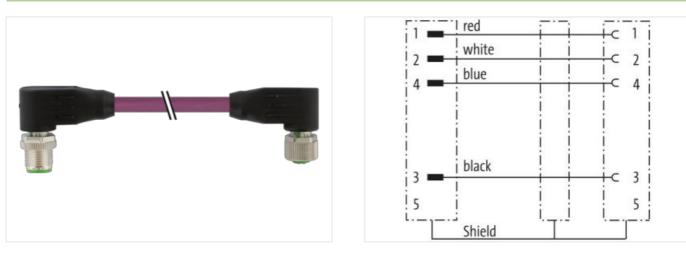
M12 male 90° / M12 female 90° B-cod. shielded

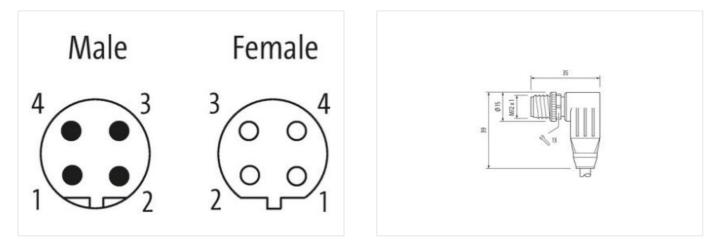
PUR AWG24+22 shielded vt UL/CSA+drag ch. 2m

Male 90° – female 90° M12 – M12, 4-pole B-coded shielded 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.

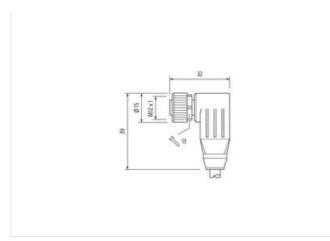
Link to Product











Product may differ from Image



Cable length	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	4048879141642	
Packaging unit	1	
Electrical data Supply		

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



Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
1 0 0	30 V
Operating voltage AC (UL-listed)	
Operating voltage DC (UL-listed) Current operating per contact max.	30 V 4 A
	4 A
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)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Coating locking	Nickeled
Locking material	Zinc die-casting
Mechanical data Mounting data	ب ب
	incorted corrowed Shaking protection
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	
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)	copper braid, tinned
Cable shielding (coverage)	65 %
Banding	Foil
Drain wire (cross-section)	22 AWG
wire arrangement	(white, blue), (black, red)
Traversing distance (C-track)	5 m
Cable weigth	63,12 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	6,9 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PE
Amount wires	2
Outer diameter insulation	2,1 mm

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



Shore hardwass wire insulation 64.4 5 Shore D Ingredient inceness wire insulation kead free, CFC-free, habogen free Amount stands (kine) 19 Diamator of single wires 24 AWG Constact crossessection (wire) 24 AWG Data wire (cross-section) 22 AWG Material conductor wire copper stranded wire, linned Electrical functions wire Data Outer diameter wire insulation (Data) PE Outer diameter wire insulation (Data) 53 % Ingredient Inceness wire insulation (Data) 24 AWG Conductor crossecolitom wire (Data) 22 AWG Conductor crossecolitom wire (Data) 22 AWG Conductor crossecolitom wire (Data) 20 AWG Conductor crossecolitom wire (Data) 20 AWG Construct Tossecolitom wire (Data) 20 AWG Construct Tossecolitom wire (Data) 20 AWG C	Outer diameter tolerance core insulation	±5%
Anount strands (wine) 19 Diameter of aingle wines 24 AWG Conductor crossescienton (wine) 24 AWG Drain wire (cross-section) 22 AWG Matorial conductor wire (cross-section) 22 AWG Matorial conductor wire (cross-section) 22 AWG Matorial conductor wire (cross-section) 22 AWG Matorial wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.6 mm Conductor crossescient wire (Data) 2 Amount wise (Data) 1.9 Diameter of aingle wires (Oata) 2 Conductor crossescient wire (Data) 2.2 AWG Matorial conductor wire (Data) 2.2 AWG Conductor crossescient wire (Data) 2.2 AWG Conductor crossescient wire (Data) Power Nominal voltage AC max. 300 V Current load capacity (standardt) D DIN VDE D298-4 Current load capacity (win. wire (Data) Power Characteristic impedance 120 Ω 1 10 % @ 1 MHz Electricial function wire (Data) Power<	Shore hardness wire insulation	64 ± 5 Shore D
Dameter of single wires 24 AWG Conductor crossection (wire) 24 AWG Dami wire (Cross section) 22 AWG Material conductor wire copper stranded wire, tinned Elactrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.9 mm Diameter of single wires (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Conductor wire (Data) 22 AWG Conductor wire (Data) 22 AWG Conductor wire (Data) copper stranded wire, tinned Electrical function wire (Data) copper stranded wire, tinned Control (Data) copper stranded wire, tinned Control (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 function wire (Data) Power Characteristis impedance 120 Ω 10 % @ 1 MHz <td>Ingredient freeness wire insulation</td> <td>lead-free, CFC-free, halogen-free</td>	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crossection (wire) 24 AWG Drain wire (cross-section) 22 AWG Material conductor wire Data Material conductor wire insulation (Data) PE Outor diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Conductor crossection wire insulation (Data) 2.2 Amount wires (Data) 2 Conductor crossection wire (Data) 2.2 AWG Conductor rossection wire (Data) 2.2 AWG Contract more crossection wire (Data) 0.2 AWG Contract moder consection wire (Data) 0.0 VP Current load capacity min. wire 4.5 A Current load capacity min. wire 4.5 A Current load capacity min. wire 0.2 M 10 % 0.1 MHz Electricial inclion wire (data) Power Characteristic ingodance 1.20 Ω 1 0 % 0.1 MHz Electricial resistance conting wire (Data) 5.4 Okm	Amount strands (wire)	19
Drain wire (cross-section) 22 AWG Material conductor wire coppor strandou wire, finned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Ata) ES % Ingredient freeness wire insulation (Data) 1.5 mm Tolerance outer situation (Ata) ES % Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free Amount strands wire (Data) 2 Amount strands wire (Data) 22 AWG Conductor onssection wire (Data) 22 AWG Conductor vire (Data) 22 AWG Conductor vire (Data) 20 AWG Material conductor wire (Data) copper strandod wire, linned Electrical function wire (Data) copper strandod wire, linned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity (sinntardur) to DIN VDE 0298-4	Diameter of single wires	24 AWG
Material conductor wire copper stranded wire, tinned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 2 s Amount Wires (Data) 2 Amount wires (Data) 2 Amount stands wire (Data) 2 Conductor or senses wire insulation (Data) 19 Diameter of single wires (Data) 22 AWG Conductor or sensection wire (Data) 22 AWG Conductor vires (Data) 22 AWG Conductor vires (Data) 20 AWG Conductor vires (Data) 20 AWG Conductor vires (Data) 20 AWG Conductor vires (Data) 00 V Current load capacity min. wire (Data) Power Current load capacity min. wire (Data) A Electrical function wire (Data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 O.Km AC withstand voltage (wire - wire) 2 AV @ 60 S Electrical resistance in con	Conductor crosssection (wire)	24 AWG
Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Ingredient feenoes wire insulation (Data) 1.8 mm Amount wires (Data) 2 Amount wires (Data) 2 Amount wires (Data) 2 Conductor crosses of the wires (Data) 22 Amount wires (Data) 22 Amount wires (Data) 22 Conductor crosses 22 AWG Conductor crosses 22 AWG Conductor crosses 22 AWG Conductor crosses 23 AWG Conductor crosses 23 AWG Conductor crosses 24 AWG Conductor crosses 24 AWG Conductor crosses 25 AWG Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. Wire (Data) 6 A Electrical function wire (data) Power Characteristic inpedance 120 0 2 10 % @ 1 MHz Electrical resistance ine constant wire 78	Drain wire (cross-section)	22 AWG
Material wire insulation (Data) PE Outer dameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) 163 %. Ingredient freeness wire insulation (Data) 164-free, CFC-free, halogen-free Amount wires (Data) 2 Amount wires (Data) 2 Amount wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Conductor wire (Data) 0per stranded wire, tinned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0296-4 Current load capacity min. Wire (Data) 6 A Electrical function wire Data Electrical runction wire Data Electrical runction wire Ta Qurm Characteristic impedance 120 Q ± 10 % @ 1 MHz Electrical runction wire Ta Qurm Coperating temperature (static) 40	Material conductor wire	copper stranded wire, tinned
Outer diameter wire insulation (Data) 1,5 mm Tolerance soure diameter wire insulation (Data) E3 % Ingredient freeness wire insulation (Data) E3 % Amount wire (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor or sossection wire (Data) Copper stranded wire, Itnned Electrical function wire (Data) copper stranded wire, Itnned Conductor or sossection wire (Data) Copper stranded wire, Itnned Current toad capacity (standard) to DIN VDE 0298-4 Current toad capacity (standard) to DIN VDE 0298-4 Current toad capacity min. Wire Data Electrical function wire (data) Power Characteristic impedance 120 Q± 10 % @ 1 MHz Electrical resistance coating wire (Data) 54 QJKm Electrical resistance coating wire (Data) 54 QJKm AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical resistance 40000 pF/km AG withstand voltage (wire - shield) 2 kV @ 60 s Max. operating temperature (static) 40 °C Querating temperature (static)	Electrical function wire	Data
Tolerance outer diameter wire insulation (data) ± 53 % Ingredient Treeness wire insulation (Data) lead-free, CFC-free, halogen-free Amount strands wire (Data) 2 Amount strands wire (Data) 19 Dameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) Copper stranded wire, tinned Electrical function wire (Data) Copper stranded wire, tinned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity (standard) to DI NUPE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire Data Electrical function wire (data) Power Chrancel statistic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 CMm Electrical resistance coating wire (Data) 54 Ω/km Electrical resistance 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 Max. operating temperature (fixed) 80 °C Operating temperature (fixed) 30 °C <	Material wire insulation (Data)	PE
Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free Amount wires (Data) 2 Amount strands wire (Data) 19 Diametor of single wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (Data) copper stranded wire, tinned Current load capacity (sindard) to DIN VDE 0288-4 Current load capacity min. wire 4,5 A Current load capacity min. wire (Data) 6 A Electrical function wire (Data) Power Characteristic impedance 120 £ ± 10 % @ 1 MHz Electrical function wire (Data) 6 A Electrical function wire (Data) 54 Q/km AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical resistance ine constant wire 78 Q/km AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical resistance outing wire (Data) 54 Q/km AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical resistance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60	Outer diameter wire insulation (Data)	1,5 mm
Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current to dacapacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 6 A Electrical function 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 Ω/km AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical resistance coating wire (Data) 2 kV @ 60 s Min. operating temperature (fixed) 80 °C Operating temperature (mixed) 20 °C Parating temperature (mixed) 80 °C Operating temperature (mixed) 80 °C Operating temperature (mixed) 80 °C Operating temperature (mixed) <td< td=""><td>Tolerance outer diameter wire insulation (data)</td><td>± 53 %</td></td<>	Tolerance outer diameter wire insulation (data)	± 53 %
Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Identities of the standed wire, tinned Electrical function wire (data) Power Nominal voltage AC max. Current to accapacity (standard) to DIN VDE 0298-4 Current to accapacity (standard) to DIN VDE 0298-4 Current to accapacity (standard) 6 A Electrical function wire (data) Power Characteristic impedance Data Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 QKm Electrical resistance on constant wire 78 QKm Electrical resistance (stato) 54 QKm AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (stato) 40 °C Max. operating temperature (stato) 40 °C Max. operating temperature (stato) 70 °C Plame resistance UL 1581 § 1100 FT2 IEC 60332-22 UL 1581 § 1090 Chernical resistance Good, application-related testing	Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Diameter of single wires (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 (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.5 A Current load capacity min. wire Data Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical stance constant wire 78 Ω/km Electrical resistance constant wire (bata) 54 Ω/km AC withstand voltage (wire - wire) 2 KV @ 60 s Min. operating temperature (static) -40 °C Max. operature min. (dynamic) 30 °C Operating temperature (static) -40 °C Querature mediator-related testing Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Gine resistance Good, application-related testing Oil resistance	Amount wires (Data)	2
Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. Wire (Data) 6 A Electrical function wire (data) Power Characteristic impedance Data Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ωkm Electrical 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 Max. operating temperature (tatle) -40 °C Max. operating temperature (tatle) -30 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) 10 °C Flame resistance Good, application-related testing <td< td=""><td>Amount strands wire (Data)</td><td>19</td></td<>	Amount strands wire (Data)	19
Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity min. wire 4,5 A Current load capacity min. wire 0 A Electrical function wire (data) Power Current load capacity min. wire 0 A Electrical function wire (data) Power 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 Electrical capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (state) 30 °C Operating temperature (state) 30 °C Operating temperature (state) -30 °C Operating temperature (state) 60 c Flame resistance Good, applic	Diameter of single wires (Data)	22 AWG
Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. Wire (Data) 6 A Electrical function wire Data Electrical function wire (data) Power Characteristic impedance 120 0 ± 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 (fixed) 80 °C Operating temperature (static) -70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chernical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oll resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) <td>Conductor crosssection wire (Data)</td> <td>22 AWG</td>	Conductor crosssection wire (Data)	22 AWG
Nominal voltage AC max.300 VCurrent Load capacity (standard)to DIN VDE 0298-4Current Load capacity (standard)to DIN VDE 0298-4Current Load capacity min. Wire (Data)6 AElectrical function wireDataElectrical function wire (data)PowerCharacteristic impedance120 Ω ± 10 % @ 1 MHzElectrical runction wire (inder wire)2 KV @ 0 1 MHzElectrical runction wire (Data)54 Ω/kmAC withstand voltage (wire - wire)2 KV @ 60 sElectric a resistance coaling wire (Data)2 KV @ 60 sElectric capacitance40000 pF/kmAC withstand voltage (wire - shield)2 KV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-30 °COperating temperature (static)-30 °COperating temperature (static)70 °CFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)× Outer diameterBending radius (dynamic)10 × Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	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 Electrical resistance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Max. operating temperature (fixed) 80 °C Operating temperature (fixed) 80 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 EC 60332-2-2 UL 1581 § 1090 chemical resistance God, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Oli resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (installation) x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Electrical function wire (data)	Power
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 A withstand voltage (wire - wire) 2 kV @ 60 s Electrical respective extreme 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical reperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature min. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 6032-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Oir resistance DIN EN 60811-404 Good, application-related testing Oir resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) × Outer diameter	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 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km Electrical resistance 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 Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C 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 (f	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 Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (static) -30 °C Operating temperature max. (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 6081-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (fixed) 6 x Outer diameter Travel speed (C-track)	Current load capacity min. wire	4,5 A
Electrical function wire (data)PowerCharacteristic 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 (static) $-40 \degree \text{C}$ Max. operating temperature (static) $-40 \degree \text{C}$ Operating temperature (inced) $80 \degree \text{C}$ Operating temperature max. (dynamic) $-30 \degree \text{C}$ Operating temperature max. (dynamic) $70 \degree \text{C}$ Flame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed) $6 \times Outer diameter$ Bending radius (fixed) $6 \times Outer diameter$ Travel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress $\pm 30 \degree/m$	Current load capacity min. Wire (Data)	6 A
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 EC 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 (fixed) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Electrical function wire	Data
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 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 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 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 (static) -40 °C 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	Characteristic impedance	120 Ω ± 10 % @ 1 MHz
AC withstand voltage (wire - wire)2 kV @ 60 sElectric capacitance40000 pF/kmAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Electrical resistance line constant wire	78 Ω/km
Electric capacitance40000 pF/kmAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (chrack)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (installation)10 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Electric capacitance	40000 pF/km
Max. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)70 °CFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Max. operating temperature (fixed)	2° 08
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	Operating temperature min. (dynamic)	-30 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)× Outer diameterBending radius (fixed)6 × Outer diameterBending radius (dynamic)10 × Outer diameterTravel speed (C-track)1 Mio.No. of torsion cycles2 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 × 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 cycles2 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

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