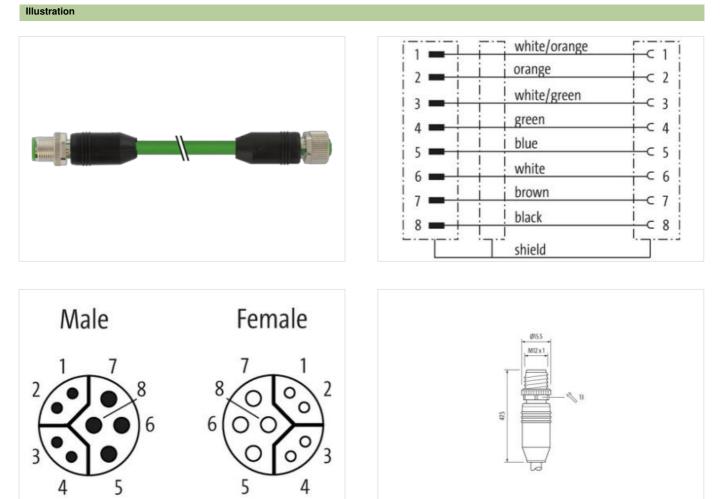


## M12 male $0^{\circ}$ / M12 female $0^{\circ}$ Y-cod. shielded

PUR AWG20/26 shielded gn UL/CSA+drag ch. 8m

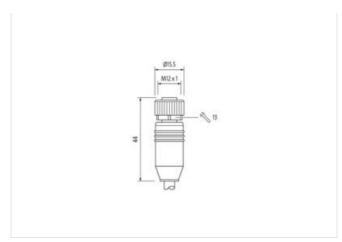
Ethernet CAT5 Male straight – female straight M12 – M12, 8-pole Y-coded shielded Transmission properties with channel transmission up to 50 m Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



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Product may differ from Image



Cable length	8 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
Coding	Y
Material	PUR
Width across flats	SW13
Side 2	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
Coding	Ŷ
Material	PUR
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	4048879804530
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	50 V
Operating voltage DC max.	50 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
operating voltage DC (UL-listed)	3U V

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Operating current per data contact max.	0,5 A	
Operating current per power contact max.	6 A	
Industrial communication		
Transfer parameters	CAT5e, Class D (ISO/IEC 11801)	
Data transmission rate max.	100 MBit/s	
Industrial communication   Ethernet func	tionality	
duplex	Full duplex	
Device protection   Electrical		
Degree of protection (EN IEC 60529)	IP65, IP67, IP68, IP66K	
Additional condition protection degree	inserted, screwed	
Pollution Degree	3	
Rated surge voltage	0,8 kV	
Material group (IEC 60664-1)	1	
Mechanical data   Material data		
Coating locking	Nickeled	
Locking material	Zinc die-casting	
Mechanical data   Mounting data		
Mounting method	inserted, screwed, Shaking protection	
-	inserted, screwed, onaking 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.	
Installation   Cable		
wire arrangement	black, brown, white, blue, (orange-white, green, orange, green-white)	
Cable identification	805	
Jacket Color	green	
Type of Certificate	cURus	
Amount stranding	1	
Stranding	4 wires around 1 Filler twisted	
Amount stranding (type 2)	1	
Stranding (type 2)	4 wires around Stranding combination with Filler twisted	
Cable shielding (type)	copper braid, tinned	
Cable shielding (coverage)	85 %	
Pair shielding (type)	copper braid, tinned	
Banding	Fleece, Foil	
Filler	yes	
wire arrangement	black, brown, white, blue, (orange-white, green, orange, green-white)	
Cable weigth	107,8 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)	8,1 mm	
Tolerance outer diameter (sheath)	±5%	
Material wire insulation	PP	
Amount wires	4	
Outer diameter insulation	1,5 mm	
Outer diameter tolerance core insulation	±5%	

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Ingredent freeness wire insulation in tead free, cadmium free, CFC-free, halogen-free, silcone-free Amount stands (wire) 19 Amount stands (wire) 20 AWG Conductor crosssection (wire) 20 AWG Conductor vire insulation (Data) PP Cuter diameter wire insulation (Data) 1, mm Control crosssection (wire) 25 ± 5 Store D Ingredient teeres wire insulation (Data) 5 ± 5 Store D Ingredient teeres wire insulation (Data) 19 Conductor crosssection wire (Data) 28 AWG Conductor vires (Data) 29 Content vires (Data) 20 Co	Shore hardness wire insulation	55 ± 5 Shore D
Dameter of aingle wires         20 AWG           Conductor crossection (wire)         20 AWG           Material conductor wires         Stranded copper wire, bare           Material divalence wire insulation (Data)         PP           Outer divanter wire insulation (Data)         PP           Outer divanter wire insulation (Data)         1,1 mm           Tolerance outer divanter wire insulation (Data)         55 t 5 Shore D           Ingredient Freeness wire insulation (Data)         55 t 5 Shore D           Ingredient Greeness wire insulation (Data)         16 S 4 KMG           Conductor crossection wire (Data)         26 AWG           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity mix. Wire (Data)         2 A           Current load capacity mix. Wire (Data)         2 A           Characteristic impedance         100 Q ± 1 5 % @ 1 MHz           Electrical resistance load constant wire 3 S QAm         Current load capacity (in constant wire 3 SQAm           Develor requerees conting wire (Data)         1 4 W Q & 60 s           AC withstand voltage (wire - shield)         1 kV Ø 60 s	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crossedion (wire)         20 AWG           Matterial conductor wire         Stranded copper wire, bare           Matterial wire insulation (Data)         PP           Outer diameter wire insulation (Data)         55 ± 5 Shore D           Torget dent freeness wire insulation (Data)         55 ± 5 Shore D           Ingredient freeness wire insulation (Data)         15 ± 5 Shore D           Ingredient freeness wire insulation (Data)         19           Damet wires (Data)         4           Amount wires (Data)         28 AWG           Conductor crossection wire (Data)         28 AWG           Contract of angia wires (Data)         28 AWG           Contract or decase constant wire         60 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (min. Wire (Data)         2 A           Characteristic impedance         100 Q ± 15 %, @ 1 MHz           Electrical resistance line constant wire         35 Q/km           Electrical resistance line constant wire - Vieo 80 s           Electrical resistance         5000 MC           Min. operating temperature (wine - wire)         14 V@ 60 s	Amount strands (wire)	19
Material conductor wive         Stranded copper wire, bare           Material conductor wive insulation (Data)         PP           Outer diameter wive insulation (Data)         1.1 mm           Tolerance outer diameter wive insulation (Data)         55 ± 5 Shore D           Ingredient freeness wive insulation (Data)         55 ± 5 Shore D           Ingredient freeness wive insulation (Data)         4           Amount strands wive (Data)         19           Diameter of sing wives (Data)         26 AWG           Conductor crossection wire (Data)         26 AWG           Conductor wire (Data)         26 AWG           Conductor wire (Data)         26 AWG           Conductor wire (Data)         26 AWG           Current load capacity min. wire (Data)         26 AWG           Current load capacity min. wire (Data)         2 A           Current load capacity min. wire (Data)         2 A           Current load capacity min. wire (Data)         2 A           Electrical resistance coating wire (Data)         140 Ω/km           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity in lice costant (wire - wire)         1 kV @ 60 s           Standed copper wire, balase         5000 MΩ           Min. operaling tomperature (stand)         80 °C / 90 °C @ 10000 h Operation <td>Diameter of single wires</td> <td>20 AWG</td>	Diameter of single wires	20 AWG
Material wire insulation (Data)         PP           Outer diameter wire insulation (Data)         1.1 mm           Tolerance unif existion (Data)         55 ± 5 Shore D           Shore hardness wire insulation (Data)         55 ± 5 Shore D           Ingredient Teeness wire insulation (Data)         54 ± 5 Shore D           Amount wire (Data)         4           Amount wire (Data)         4           Amount wire (Data)         26 AWG           Conductor crossection wire (Data)         26 AWG           Conductor or crossection wire (Data)         Stranded copper wire, bare           Nominal voltage AC max.         60 V           Current load capacity (standard)         to DIN VDE 0284-4           Current load capacity (standard)         to DIN VDE 028-4           Current load capacity (standard)         to DIN VDE 028-4           Current load capacity (standard)         to DIN VDE 028-4           Current load capacity (standard)         to DIN VDE 028-4 <td>Conductor crosssection (wire)</td> <td>20 AWG</td>	Conductor crosssection (wire)	20 AWG
Outer dameter wire insulation (Data)         1.1 mm           Tolerace outer diameter wire insulation (Data)         5 5 %           Shore hardness wire insulation (Data)         15 5 Shore           Amount stands wire (Data)         14 5 5 Shore           Amount stands wire (Data)         19           Diameter of single wires (Data)         26 AWG           Conductor crossection wire (Data)         26 AWG           Mount stands wire (Data)         26 AWG           Conductor crossection wire (Data)         Standed coper wire, bare           Naminal voltage AC max.         60 V           Current load capacity min. Wire (Data)         2 A           Characteristic impedance         100 Q ± 15 % @ 1 MHz           Electrical resistance coaling wire (Data)         2 A           Characteristic impedance         100 Q ± 15 % @ 1 MHz           Electrical resistance coaling wire (Data)         1 kV @ 60 s           Electrical resistance coaling wire (Data)         1 kV @ 60 s           AC withstand voltage (wire - shield)         1 kV @ 60 s           Electrical resistance         5000 F/m           Prower frequency withstand voltage (wire - shield)         1 kV @ 60 s           Isolation resistance         5000 F/m           Gorration temperature faital, dynamic)         60 ° C 10000 h Operation	Material conductor wire	Stranded copper wire, bare
Tolerance outer diameter wire insulation (data) $\pm 5 \%$ Shore hardness wire insulation (Data)55 $\pm 5$ Shore DImpredient freeness wire insulation (Data)4Amount wires (Data)4Amount strands wire (Data)19Diameter of single wires (Data)26 AWGConductor crosssection wire (Data)26 AWGMontin J (Data)5 stranded copper wire, bareNominal voltage wires (Data)5 AWGCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire5,9 ACurrent load capacity min. wire5,9 ACurrent load capacity min. wire5,9 ACurrent load capacity min. wire35 $\Omega$ kmElectrical resistance line constant wire35 $\Omega$ kmElectrical resistance line constant wire35 $\Omega$ kmElectrical resistance line constant (wire $\cdot$ )52000 pF/kmPower frequency withstand voltage (wire - wire)1 KV @ 60 sIsolation resistance500 MQMin. operating temperature (static)-50 °CMax. operating temperature (static)-50 °CMax. operating temperature (static)-60 °COperating temperature mix. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature mix. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature mix. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature mix. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature mix. (dynamic)80 °C / 90 °C @ 100	Material wire insulation (Data)	PP
Shore hardness wire insulation (Data)55 ± 5 Shore DIngredient freeness wire insulation (Data)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands wire (Data)4Amount strands wire (Data)19Diameter of single wires (Data)26 AWGConductor crossection wire (Data)Standed copper wire, bareNorminal voltage AC max.60 VCurrent load capacity (standard)to DIN VDE 0288-4Current load capacity min. Wire (Data)2 AChracteristic impedance100 $\Omega \pm 15 \% \oplus 1$ MHzElectrical resistance100 $\Omega \pm 15 \% \oplus 1$ MHzElectrical resistance localing wire (Data)5 Q kmElectrical resistance localing wire (Data)140 $\Omega$ kmAC withstand voltage (wire - wire)1 kV $\oplus$ 60 sElectrical resistance coating wire (Data)1.8V $\oplus$ 60 sStation resistance5000 MΩMin. operating temperature (static)-50 °CMax operating temperature (static)-50 °CAc withstand voltage (wire - shield)1.8V $\oplus$ 60 sIsolation resistance6000 MΩMin. operating temperature (static)-50 °CMax operating temperature (static)-50 °CCode, application-related testingOperating temperature max. (dynamic)40 °COperating temperature (static)-50 °CCode, application-related testingOli resistanceGood, application-related testingOli resistanceGood, application-related testingOli resistanceGood, application-related testingOli re	Outer diameter wire insulation (Data)	1,1 mm
Ingredient freeness wire insulation (Data)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands wire (Data)         19           Diameter of single wires (Data)         26 AWG           Conductor crossection wire (Data)         26 AWG           Material conductor wire (Data)         Stranded copper wire, bare           Nominal voltage AG max.         60 V           Current load capacity (standard)         to DIN VDE 0298.4           Current load capacity min. wire         5.9 A           Carrent load capacity min. wire (Data)         2 A           Characteristic impedance         100 0 2 ± 15 % @ 1 MHz           Electrical resistance coating wire (Data)         2 A           Characteristic impedance         100 0 2 ± 15 % @ 1 MHz           Electrical resistance coating wire (Data)         14 V Ø & 60 s           Electrical resistance coating wire (Data)         14 V Ø & 60 s           Electrical resistance coating wire - wire)         1 kV Ø & 60 s           Electrical resistance         5000 MQ           Min. operating temperature (statc)         -50 °C           Max. operating temperature (statc)         -50 °C           Max. operating temperature (statc)         -60 °C           Operating temperature (statc)         -60 °C           Operating temperature (	Tolerance outer diameter wire insulation (data)	±5%
Amount wires (Data)       4         Amount strands wire (Data)       19         Diameter of single wires (Data)       26 AWG         Conductor crossection wire (Data)       26 AWG         Material conductor wire (Data)       Stranded copper wire, bare         Nominal voltage AC max.       60 V         Current load capacity (standard)       to DIN VDE 298-4         Current load capacity min. wire       5,9 A         Current load capacity min. Wire (Data)       2 A         Characteristic impedance       100 Q ± 15 % @ 1 MHz         Electrical resistance line constant wire       35 Ω/km         Electrical resistance study in constant (wire - wire)       35 Ω/km         Electrical resistance line constant (wire - wire)       1 kV @ 60 s         Electrical resistance costing wire (Data)       14 Q Ω/km         AC withstand voltage (wire - shield)       1 kV @ 60 s         Isolation resistance       5000 MZ         Min: operating temperature (stallc)       -50 °C         Max. operating temperature (stallc)       -50 °C         Max. operating temperature min. (dynamic)       40 °C         Operating temperature min. (dynamic)       40 °C         Operating temperature min. (dynamic)       40 °C         Operating temperature min. (dynamic)       60 °C / 90 °C	Shore hardness wire insulation (Data)	55 ± 5 Shore D
Amount strands wire (Data)       19         Diameter of single wires (Data)       26 AWG         Conductor crosssection wire (Data)       26 AWG         Material conductor wire (Data)       Stranded copper wire, bare         Nominal voltage AC max.       60 V         Current load capacity (stranded)       to DIN VDE 0298-4         Current load capacity (wind wire (Data)       2 A         Characteristic impedance       100 Q ± 15 % @ 1 MHz         Electrical resistance coating wire (Data)       140 DAm         AC withstand voltage (wire - wire)       1 kV @ 60 s         Electrical capacity (ine constant (wire - wire)       52000 pF/km         Power frequency withstand voltage (wire - shield)       1 kV @ 60 s         Solaton resistance       5000 MQ         Min. operating temperature (static)       -50 °C         Max. operating temperature (stat	Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires (Data)       26 AWG         Conductor crosssection wire (Data)       26 AWG         Material conductor wire (Data)       Stranded copper wire, bare         Nominal voltage AC max.       60 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       5.9 A         Current load capacity min. wire (Data)       2 A         Characteristic impedance       100 Ω ± 15 % @ 1 MHz         Electrical resistance in constant wire       35 Ω/km         Electrical resistance coating wire (Data)       140 Ω/km         AC withstand voltage (wire - wire)       1 kV @ 60 s         Electrical capacity line constant (wire - wire)       5 2000 pF/km         Power frequency withstand voltage (wire - shield)       1 kV @ 60 s         Isolation resistance       5000 MΩ         Min. operating temperature (static)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (static)       -40 °C         Operating temperature (static)       -60 °C @ 10000 h Operation         Chareacter escance       Good, application-related testing         Galie resistance       Good, application-related testing         Olir resistance       Good, application-related testing         G	Amount wires (Data)	4
Conductor crosssection wire (Data)         26 AWG           Material conductor wire (Data)         Stranded copper wire, bare           Nominal voltage AC max.         60 V           Current to acpacity (standard)         to DIN VDE 0298-4           Current to acpacity (standard)         to DIN VDE 0298-4           Current to acpacity (standard)         2 A           Characteristic impedance         100 Ω ± 15 % @ 1 MHz           Electrical resistance line constant wire         35 Ω/km           Electrical resistance ine constant wire         35 Ω/km           Electrical resistance coating wire (Data)         140 Ω/km           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical resistance         5000 P/km           Power frequency withstand voltage (wire - sheld)         1 kV @ 60 s           Isolation resistance         5000 MQ           Min. operating temperature (static)         -50 °C           Max. operating temperature (static)         -60 °C           Operating temperature (static)         -60 °C @ 10000 h Operation           Operating temperature (static)         -60 °C           Operating temperature (static)         -60 °C @           Flame resistance         Good. application-related testing           Operating temperature (static)         -60 °C @	Amount strands wire (Data)	19
Material conductor wire (Data)Stranded copper wire, bareNominal voltage AC max.60 VCurrent load capacity min. wire5.9 ACurrent load capacity min. wire5.9 ACurrent load capacity min. wire5.9 ACurrent load capacity min. wire35 $\Omega$ kmElectrical resistance ine constant wire35 $\Omega$ kmElectrical resistance coating wire (Data)140 $\Omega$ /kmAC withstand voltage (wire - wire)1 kV @ 60 sElectrical capacity min. Wire (Data)1 kV @ 60 sElectrical capacity line constant (wire - wire)52000 pF/kmPower frequency withstand voltage (wire - a jacket)1 kV @ 60 sAC withstand voltage (wire - shield)1 kV @ 60 sAc withstand voltage (wire - biseld)1 kV @ 60 sAc withstand voltage (wire - biseld)1 kV @ 60 sAc withstand voltage (wire - biseld)1 kV @ 60 sAc withstand voltage (wire - biseld)1 kV @ 60 sAc withstand voltage (wire - biseld)1 kV @ 60 sCorrenting temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 158 \ 1100 FT2   IEC 6032-2-2   UL 158 \ 9 1090Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, applic	Diameter of single wires (Data)	26 AWG
Nominal voltage AC max.60 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. Wire (Data)2 ACharacteristic impedance100 $\Omega \pm 15 \% \oplus 1$ MHzElectrical resistance line constant wire35 $\Omega$ kmElectrical resistance coating wire (Data)140 $\Omega$ /kmAC withstand voltage (wire - wire)1 kV $\oplus$ 60 sElectrical capacity min. wire52000 pF/kmPower frequency withstand voltage (wire - jackel)1 kV $\oplus$ 60 sAC withstand voltage (wire - jackel)1 kV $\oplus$ 60 sSatistance5000 MQMin. operating temperature (static)-50° CMax. operating temperature (static)-50° COperating temperature (static)-40° COperating temperature (static)-50° CMax. operating temperature (static)-40° COperating temperature (static)-50° CGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistance	Conductor crosssection wire (Data)	26 AWG
Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       5,9 A         Current load capacity min. Wire (Data)       2 A         Characteristic impedance       100 Ω ± 15 % @ 1 MHz         Electrical resistance inc constant wire       35 Ω/km         Electrical resistance coating wire (Data)       140 Ω/km         AC withstand voltage (wire - wire)       1 kV @ 60 s         Electrical capacity inc constant (wire - wire)       52000 pF/km         Power frequency withstand voltage (wire - iacket)       1 kV @ 60 s         Isolation resistance       5000 MΩ         Min. operating temperature (static)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (static)       -60 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -40 °C         Operating temperature min. (dynamic)       -60 °C @ 10000 h Operation         Flame resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing	Material conductor wire (Data)	Stranded copper wire, bare
Current load capacity min. Wire         5,9 A           Current load capacity min. Wire (Data)         2 A           Characteristic impedance         100 Ω ± 15 % @ 1 MHz           Electrical resistance ine constant wire         35 Ω/km           Electrical resistance coating wire (Data)         140 Ω/km           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         5000 pF/km           Power frequency withstand voltage (wire - lacket)         1 kV @ 60 s           Isolation resistance         5000 MΩ           Min. operating temperature (static)         -50 °C           Max. operating temperature (static)         -50 °C           Max. operating temperature (static)         -40 °C           Operating temperature max. (dynamic)         -40 °C           Operating temperature max. (dynamic)         -40 °C           Operating temperature max. (dynamic)         -60 °C @ 10000 h Operation           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           Oll resistance         Good, application-related testing           Bending radius (fixed)         5 × Outer diameter	Nominal voltage AC max.	60 V
Current load capacity min. Wire (Data)         2 A           Characteristic impedance         100 $\Omega \pm 15 \% @ 1$ MHz           Electrical resistance coating wire (Data)         140 $\Omega$ /m           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         52000 pF/km           Power frequency withstand voltage (wire - shield)         1 kV @ 60 s           KC withstand voltage (wire - shield)         1 kV @ 60 s           Isolation resistance         5000 MQ           Min. operating temperature (static)         -50 °C           Max. operating temperature (static)         -50 °C           Operating temperature (static)         -40 °C           Operating temperature (static)         -50 °C           Max. operating temperature (static)         -40 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           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           Gasoline resistance         Good, application-related testing           Gil resistance         Good, application-related testing           Bending radius (installation)         x Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
Characteristic inpedance100 $\Omega \pm 15 \% \oplus 1$ MHzElectrical resistance line constant wire35 $\Omega$ /kmElectrical resistance coating wire (Data)140 $\Omega$ /kmAC withstand voltage (wire - wire)1 kV $\oplus$ 60 sElectrical capacity line constant (wire - wire)5 2000 pF/kmPower frequency withstand voltage (wire - jacket)1 kV $\oplus$ 60 sIsolation resistance5000 MQMax. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C $\oplus$ 10000 h OperationOperating temperature (min. (dynamic))-40 °COperating temperature max. (dynamic)80 °C / 90 °C $\oplus$ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   IEC 60322-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOiler resistanceGood, application-related testingOiler resistanceGood, application-related testingOiler resistanceGood, application-related testingOiler resistanceGood, application-related testingOil resistanceGood, application-related testingOiler resistanceGood, application-related testingOiler resistanceGood, application-related testingOiler resistanceGood, application-related testingOil resist	Current load capacity min. wire	5,9 A
Electrical resistance line constant wine       35 Ω/km         Electrical resistance coating wire (Data)       140 Ω/km         AC withstand voltage (wire - wire)       1 kV @ 60 s         Electrical capacity line constant (wire - wire)       52000 pF/km         Power frequency withstand voltage (wire - shield)       1 kV @ 60 s         AC withstand voltage (wire - shield)       1 kV @ 60 s         Isolation resistance       5000 MQ         Min. operating temperature (static)       -50 °C         Max. operating temperature (static)       -50 °C         Operating temperature min. (dynamic)       -40 °C         Operating temperature min. (dynamic)       -40 °C         Operating temperature min. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, applica	Current load capacity min. Wire (Data)	2 A
Electrical resistance coating wire (Data)       140 Ω/km         AC withstand voltage (wire - wire)       1 kV @ 60 s         Electrical capacity line constant (wire - wire)       52000 pF/km         Power frequency withstand voltage (wire - jacket)       1 kV @ 60 s         AC withstand voltage (wire - shield)       1 kV @ 60 s         Isolation resistance       5000 MΩ         Min. operating temperature (static)       -50 °C         Max. operating temperature (isted)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (isted)       80 °C / 90 °C @ 10000 h Operation         Operating temperature max. (dynamic)       -40 °C         Operating temperature max. (dynamic)       -40 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       God, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (installation)       x Outer diameter         Bending radius (dynamic)       10 x Outer diameter	Characteristic impedance	100 Ω ± 15 % @ 1 MHz
AC withstand voltage (wire - wire)       1 kV @ 60 s         Electrical capacity line constant (wire - wire)       52000 pF/km         Power frequency withstand voltage (wire - jacket)       1 kV @ 60 s         AC withstand voltage (wire - shield)       1 kV @ 60 s         Isolation resistance       5000 MQ         Min. operating temperature (static)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (static)       -40 °C         Operating temperature min. (dynamic)       -40 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         Chemical resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (fixed)       <	Electrical resistance line constant wire	35 Ω/km
Electrical capacity line constant (wire - wire)       52000 pF/km         Power frequency withstand voltage (wire - jacket)       1 kV @ 60 s         AC withstand voltage (wire - shield)       1 kV @ 60 s         Isolation resistance       5000 MΩ         Min. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -40 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         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       Good, application-related testing         Oil resistance       Good, application-related testing         Bending radius (installation)       x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Bending cycles (C-track)       5 Mio.         Traversing distance (C-track)       5 m	Electrical resistance coating wire (Data)	140 Ω/km
Power frequency withstand voltage (wire - jacket)       1 kV @ 60 s         AC withstand voltage (wire - shield)       1 kV @ 60 s         Isolation resistance       5000 MΩ         Min. operating temperature (static)       -50 °C         Max. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -40 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         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       Good, application-related testing         Bending radius (installation)       x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 m         Traversing distance (C-track)       5 m         Travel speed (C-track)       3,3 m/	AC withstand voltage (wire - wire)	1 kV @ 60 s
jacket)       1 kV @ 60 s         AC withstand voltage (wire - shield)       1 kV @ 60 s         Isolation resistance       5000 MΩ         Min. operating temperature (static)       -50 °C         Max. operating temperature (ifxed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -40 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         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       Good, application-related testing   DIN EN 60811-404         Bending radius (installation)       x Outer diameter         Bending radius (isted)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 m         Traversing distance (C-track)       5 m         Traversing distance (C-track)       3,3 m/s         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m	Electrical capacity line constant (wire - wire)	52000 pF/km
Isolation resistance       5000 MΩ         Min. operating temperature (static)       -50 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -40 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         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       Good, application-related testing         Oil resistance       Good, application-related testing         Bending radius (installation)       x Outer diameter         Bending radius (stixt)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 m         Traversing distance (C-track)       5 m         Travel speed (C-track)       3,3 m/s         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m		1 kV @ 60 s
Min. operating temperature (static)-50 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-40 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (installation)x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 mTraversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - shield)	1 kV @ 60 s
Max. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-40 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)5 x Outer diameterBending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Isolation resistance	5000 ΜΩ
Operating temperature min. (dynamic)-40 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Min. operating temperature (static)	-50 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Operating temperature min. (dynamic)	-40 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)× Outer diameterBending radius (fixed)5 × Outer diameterBending radius (dynamic)10 × Outer diameterNo. of bending cycles (C-track)5 mTravel speed (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Oil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	chemical resistance	Good, application-related testing
Bending radius (installation)x Outer diameterBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Gasoline resistance	Good, application-related testing
Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Bending radius (installation)	x Outer diameter
No. of bending cycles (C-track)5 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track)5 mTravel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	No. of bending cycles (C-track)	5 Mio.
Travel speed (C-track)3,3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m		5 m
No. of torsion cycles     2 Mio.       Torsion stress     ± 30 °/m	Travel speed (C-track)	3,3 m/s
Torsion stress ± 30 °/m		2 Mio.
Torsion speed 35 cycles/min		± 30 °/m
	Torsion speed	35 cycles/min

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