

## M12 male 0° B-cod. with cable shielded

PUR 1x2xAWG24 shielded vt UL/CSA+drag ch. 3m

Art.No.: 7000-14051-8400300

Weight: 0.279 Country of origin: CZ

Model designation: MSBAL0-F840 3.0-ZS

## Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

If you are missing technical information? Please feel free to use our dictionary to find more technical details.

**Product details:** 

**PROFIBUS** 

Male straight

M12, 2-pole

**B-coded** 

shielded

Plastic housings with good resistance against chemicals and oils.

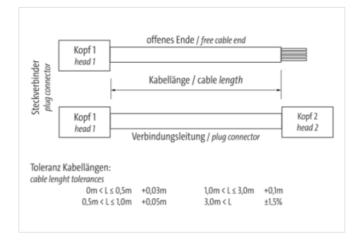
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

## **Link to Product**

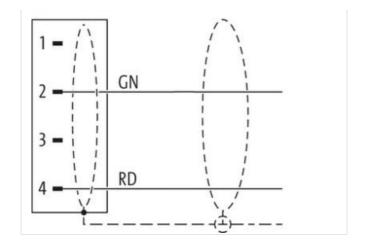
## Illustration

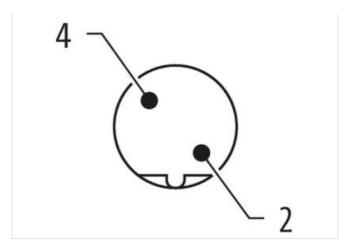


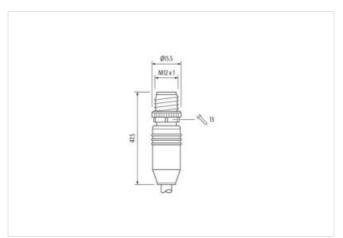




stay connected







Product may differ from Image















Cable length	3 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Cable outlet	straight
Coding	В
Material contact	Copper alloy
Material	PUR
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Family construction form	free cable end
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 customs tariff number 85444290 EAN 4048879198455 EAN 4048879198455 Packaging unit 1 Packaging unit 1 Electrical data | Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V Operating voltage AC (UL-listed) 30 V 30 V Operating voltage DC (UL-listed) Current operating per contact max. 4 A **Diagnostics** Status indication LED no Installation | Connection Stripping length (jacket) 20 mm Mounting set M12 x 1 Installation | Pin assignment Configuration partly used Device protection | Electrical Additional condition protection degree inserted, screwed **Pollution Degree** 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) ı Mechanical data without Contour for corrugated hose Mechanical data | Material data Coating locking Nickeled Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection 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. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be Note on bending radius endangered by excessive bending forces.

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: 2025-06-13



Cable shielding (coverage)         70 %           Banding         Fleece, Foil           wire arrangement         red, green           Cable weigth         82.5 g/m           Material Jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (Jacket)         7,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         TPE-V           Color (Inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2,55 mm           Ingredient freeness wire insulation         16 ± 5 %           Ingredient freeness wire insulation         16 ± 6 WG           Ingredient freeness wire insulation         18 ± 5 %           Ingredient freeness wire insulation         18 ± 6 WG           Demarker of slipe wires         36 AWG           Conductor crosssection (wire)         19           Diameter of slipe wires         36 AWG           Conductor crosssection (wire)         24 AWQ           Material conductor wire         150 Ω ± 10 % © 1 MHz           Electrical capacity fixendard         150 Ω ± 10 %		
wite arrangement Cable identification Cable identification Cable identification Cable identification  Jacket Color Volet Type of Certificate Amount stranding 1 Stranding 2 wires twisted Cable shielding (type) Cable shielding (ty	Product standard	DIN EN 61076-2-101 (M12)
Cabe is destrification         840           Function cable         Date           Jacket Color         violet           Type of Certificate         CNBus           Amount stranding         1           Stranding         2 wires twisted           Cable shielding (type)         copper braid, flinned           Cable shielding (coverage)         70 %           Banding         Fleece, Foll           wire arrangement         red, green           Cable weight         82,5 gm           Material jacket         PDR           Preaded miron ingredients (jacket)         108           Outer-dismeter (facket)         7,8 mm           Tolerance outer diameter (shelt)         5 %           Material inner jacket         TPE-V           Color (inner jacket)         15 %           Material inner jacket         TPE-V           Color (inner jacket)         15 %           Material inner jacket         15 %           Color (inner jacket)         15 %           Material inner jacket         15 %           Color (inner jacket)         25 mm           Color (inner jacket)         24 Mm le           Color (inner jacket)         24 Mm le           Material i	Installation   Cable	
Function cable	wire arrangement	red, green
Jacket Color   violet	Cable identification	840
Type of Certificate         cURus           Amount stranding         1           Stranding         2 wires twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         70 %           Banding         Fleece, Foll           wire arrangement         red, green           Cable weight         82.5 gm           Material jacket         PUR           Freedom from ingredients (jacket)         7.8 mm           Outer-diameter (jacket)         7.8 mm           Tolerance outer diameter (jacket)         2.5 mm           Tolerance outer diameter (jacket)         7.8 mm           Material inner jacket         TPE-V           Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2.55 mm           Ingredient freeness wire insulation         18.05 mm           Ingredient freeness wire insulation         18.05 mm           Ingredient freeness wire insulation         18.04 mm           Ingredient freeness wire insulation         18.05 mm           Conductor crossection (wire)         24 AWG           Material conductor wire         38 AVG<	Function cable	Data
Amount stranding 1 Stranding 2 wires twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 70 % Banding Fleece, Foll wire errangement red, green Cable weight 82.5 gm Material jubete PIR Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 7,8 mm Collerance outer diameter (sheath) 3 5 % Material inner jacket TFE-V Color (inner jacket) white Material inner jacket TFE-V Color (inner jacket) white Material wire insulation cell polyethylene Amount wires 2 Couter diameter tolerance core insulation 1 5 5 % Ingredient freeness wire insulation 2,25 mm Outer diameter tolerance core insulation 1 5 5 % Conductor crosssection (wire) 19 Diameter of single wires 36 AWG Conductor crosssection (wire) 19 Diameter of single wires 36 AWG Conductor crosssection (wire) 19 Simulaterial core insulation 1 5 DIN VDE 0298-4 Current load capacity (intandard) to DIN VDE 0298-4 Cervent load capacity (intandard) to DIN VDE 0298-4 Current load capacity (intender 0.000 prickm Power frequency withstand voltage (wire - wire) 30000 prickm Power frequency withstand voltage (wire - wire) 30000 prickm Power frequency withstand voltage (wire - wire) 30000 prickm Power frequency withstand voltage (wire - wire) 30000 prickm Power frequency withsta	Jacket Color	violet
Stranding         2 wires twisted           Cable shielding (type)         coppor braid, tinned           Cable shielding (coverage)         70 %           Banding         Fleece, Foll           wire arrangement         red, green           Cable weigth         82.5 gm           Material jacket         PUR           Freedom from ingredients (jacket)         18.0 mm           Outer-diameter (jacket)         7.8 mm           Tolerance outer diameter (sheatth)         2.5 %           Material inner jacket         TPE-V           Color (mer jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2.55 mm           Under diameter insulation         2.55 mm           Under diameter insulation         1.9 0 mm           Ingredient freeness wire insulation         1.9 0 mm           Ingredient freeness wire insulation         1.9 0 mm           Banding freeness wire insulation         1.9 0 mm           Ingredient freeness wire insulation         1.9 0 mm           Ingredient freeness wire insulation         1.9 0 mm           Ingredient freeness wire insulation         1.9 0 mm           Conduct an acco	Type of Certificate	cURus
Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         70 %           Cable shielding (coverage)         70 %           Banding         Fleoco, Foll           wire arrangement         red, green           Cable weight         82,5 g/m           Material jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7,8 mm           Tolerance outer diameter (sheath)         2,5 %           Material inner jacket         TPE-V           Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter tolerance core insulation         2,5 mm           Outer diameter folerance core insulation         2,5 %           Ingredient freeness wire insulation         2,5 %           Ingredient freeness wire insulation         2,5 %           Outer diameter olerance core insulation         3,6 AWG           Conductor crossection (wire)         19           Diameter of single wires         3,6 AWG           Conductor crossection (wire)         24 AWG           Material conductor wire         Strande	Amount stranding	1
Cable shielding (coverage)         70 %           Banding         Fieoce, Foil           wire arrangement         red, green           Cable weigth         82.5 g/m           Material jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material kiner jacket         TFE-V           Color (inner jacket)         white           Material kiner insulation         ell polysthylene           Amount wires         2           Outer diameter insulation         2,55 mm           Ingredient freeness wire insulation         16 √ 5 %           Ingredient freeness wire insulation         16 √ 6 √ FC- free, halogen-free           Amount strands (wire)         19           Diameter of Islay wires         36 AWG           Conductor crosssection (wire)         24 AWQ           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         25 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity fistandard         15 0 Ω ± 10 % @ 1 MHz           Electrical capacity line	Stranding	2 wires twisted
Banding   Fleece, Foll	Cable shielding (type)	copper braid, tinned
wire arrangement         red, green           Cable weight         82,5 g/m           Material Jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, sillicone-free           Outer-diameter (facket)         7,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         TPE-V           Color (inner jacket)         white           Amount wires         2           Outer diameter insulation         cell polyethylene           Amount strands (wire)         2,55 mm           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         35 MG           Conductor crossection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Current load capacity (stendard)         to DIN VDE 0298-4           Current load capacity (stendard)         to DIN VDE 0298-4           Current load capacity (wire wire)         3 A           AC withstand voltage (wire - wire)         3 NW @ 0 NW           Electrical resistance line constant wire         7 S Q Ikm @ 20 ° C           AC withstand voltage (wire - wire)         1 kV @ 60 s </td <td>Cable shielding (coverage)</td> <td>70 %</td>	Cable shielding (coverage)	70 %
Cable weight         82,5 g/m           Material jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, sillcone-free           Outer-diameter (jacket)         7,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         TPE-V           Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Quter diameter losirance core insulation         ± 5 %           User diameter tolerance core insulation         ± 5 %           Under diameter folerance core insulation         ± 5 %           Under diameter folerance core insulation         ± 5 %           Under diameter of single wires         3 6 AWG           Conductor or diameter of single wires         3 6 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         78 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         78 Ω/km @ 20 °C           AC withstand voltage (wire - wire)	Banding	Fleece, Foil
Material jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, sillicono-free           Outcr-cliameter (jacket)         7,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         TPE-V           Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         ± 5 % mm           Outer diameter insulation         ± 5 % m           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material onductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           AC withstand voltage (wire - wire)         150 Ω ± 10 % @ 1 MHz           Electrical presidance         150 Ω ± 10 % @ 1 MHz           Electrical presidance (wire - shield)         1 kV @ 60 s           AC withstand voltage (wire - shield)         1 k	wire arrangement	red, green
Material jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, sillcone-free           Outer-diameter (jacket)         7,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         TPE-V           Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2,55 mm           Outer diameter insulation         1,25 mm           Under diameter insulation         1,25 mm           Outer diameter insulation         2,55 mm           Under diameter solicities (wire)         19           Diameter of single wires         36 AWG           Conductor crossection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical presidence (inc constant (wire - wire)         1 kV @ 60 s           Electrical resistance (withstand voltage (wire - shield)         1 kV @ 60 s		<del>-</del>
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         TPE-V           Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2,55 mm           Uter diameter rolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DN VDE 299-4           Current load capacity min. wire         3 A           Characteristic impedance         150 Ω ± 10 % @ 1 MHz           Electrical resistance line constant (wire - wire)         3000 pFikm           Power frequency withstand voltage (wire - sheld)         1 kV @ 60 s           Inio. operating temperature (static)         40 °C           Max. o	Material jacket	
Outer-diameter (jacket)         7,8 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         TPE-V           Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2,55 mm           Outer diameter insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire wire)         150 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         76 Ω km @ 20 °C           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         1 kV @ 60 s           Electrical capacity (wire - shield)         1 kV @ 60 s           Min. operating temperature (wire - shield) <td></td> <td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td>		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         TPE-V           Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2,55 mm           Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Characteristic impedance         150 Ω ± 10 % Ø 1 MHz           Electrical resistance line constant wire         78 QMm @ 20 °C           AC withstand voltage (wire - wire)         1 kV Ø 60 s           Electrical capacity line constant (wire - wire)         1 kV Ø 60 s           AC withstand voltage (wire - shield)         1 kV Ø 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)		
Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2,5 mm           Outer diameter insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Characteristic impedance         150 Ω ± 10 % @ 1 MHz           Electrical resistance line constant (wire - wire)         3000 pF/km           Electrical resistance line constant (wire - wire)         3000 pF/km           Power frequency withstand voltage (wire - shield)         1 kV @ 60 s           Min. operating temperature (fixed)         8 °C           Operating temperature (fixed)         80 °C           Operating temperature (min. (dynamic)         20 °C           Operating temperature (min. (dynamic)         20 °C           Operating temperature (min. (dyn	Tolerance outer diameter (sheath)	· · · · · · · · · · · · · · · · · · ·
Color (inner jacket)         white           Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2,5 mm           Outer diameter insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity standard)         to DIN VDE 0298-4           Current load capacity strandard)         to DIN VDE 0298-4           Current load capacity inie constant wire         3 A           Characteristic impedance         150 Ω± 10 % @ 1 MHz           Electrical resistance line constant (wire - wire)         3 Chm @ 20 °C           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         30000 pF/km           Power frequency withstand voltage (wire - shield)         1 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Opera	Material inner jacket	TPE-V
Material wire insulation         cell polyethylene           Amount wires         2           Outer diameter insulation         2,55 mm           Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Characteristic impedance         150 Ω± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         10000 pF/km           Power frequency withstand voltage (wire - shield)         1 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Operating temperature min. (dynamic)         60 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing <td>Color (inner jacket)</td> <td>white</td>	Color (inner jacket)	white
Outer diameter insulation         2,55 mm           Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Characteristic impedance         150 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         3000 ØF/km           Power frequency withstand voltage (wire - shield)         1 kV @ 60 s           Min. operating temperature (sked)         80 °C           Operating	Material wire insulation	cell polyethylene
Outer diameter tolerance core insulation         ± 5 %           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity win. wire         3 A           Characteristic impedance         150 Ω ± 10 % © 1 MHz           Electrical resistance line constant wire         78 Ω km @ 20 °C           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         30000 pF/km           Power frequency withstand voltage (wire - shield)         1 kV @ 60 s           AC withstand voltage (wire - shield)         1 kV @ 60 s           Min. operating temperature (stiked)         30 °C           Operating temperature (stiked)         80 °C           Operating temperature (stiked)         80 °C           Operating temperature (stiked)         80 °C           Flame resistance         Good, application-related testing           Gasoline resistance         Good, application-rel	Amount wires	
Ingredient freeness wire insulation Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 250 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1 kV @ 60 s Electrical capacity line constant (wire - wire) 3 λος withstand voltage (wire - shield) 1 kV @ 60 s AC withstand voltage (wire - shield) 1 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) 20 °C Operating temperature min. (dynamic) 20 °C Operating temperature max. (dynamic) 40 °C Germical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (dynamic) 12 x Outer diameter Bending radius (dynamic) 12 x Outer diameter Favores in devenue in diameter Favores in diameter Fav	Outer diameter insulation	2,55 mm
Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Characteristic impedance         150 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         1 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         20 °C           Operating temperature max. (dynamic)         60 °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         Good, appl	Outer diameter tolerance core insulation	±5%
Amount strands (wire)         19           Diameter of single wires         36 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Characteristic impedance         150 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         1 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         20 °C           Operating temperature max. (dynamic)         60 °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         Good, appl	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Diameter of single wires 36 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare  Nominal voltage AC max. 250 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Current load capacity min. wire 150 Δ ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km @ 20 °C AC withstand voltage (wire - wire) 1 kV @ 60 s Electrical capacity line constant (wire - wire) 30000 pF/km Power frequency withstand voltage (wire - a lk V @ 60 s Electrical capacity line constant (wire - wire) 30000 pF/km Power frequency withstand voltage (wire - a lk V @ 60 s  AC withstand voltage (wire - shield) 1 kV @ 60 s  Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -20 °C Operating temperature min. (dynamic) -20 °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 Dil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (fixed) 5 Mio. @ 25 °C   horizontal		
Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         250 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Characteristic impedance         150 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         1 kV @ 60 s           Electrical capacity line constant (wire - wire)         30000 pF/km           Power frequency withstand voltage (wire - shield)         1 kV @ 60 s           AC withstand voltage (wire - shield)         1 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -20 °C           Operating temperature max. (dynamic)         60 °C           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   DIN EN 60811-404           Bending radius (fixed)         10 x Outer diameter           Bending radius (gynamic)         12 x Outer diameter		36 AWG
Nominal voltage AC max. 250 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 3 A  Characteristic impedance 150 Ω ± 10 % @ 1 MHz  Electrical resistance line constant wire 78 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 1 kV @ 60 s  Electrical capacity line constant (wire - wire) 30000 pF/km  Power frequency withstand voltage (wire - a like with with with with with with with with		24 AWG
Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       3 A         Characteristic impedance $150 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega / \text{km} @ 20 ° \text{C}$ AC withstand voltage (wire - wire) $1 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $3000 \text{ pF/km}$ Power frequency withstand voltage (wire - shield) $1 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $1 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (fixed) $30 ° \text{C}$ Operating temperature min. (dynamic) $-20 ° \text{C}$ Operating temperature max. (dynamic) $60 ° \text{C}$ 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       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       10 x Outer diameter         Bending radius (dynamic)       12 x Outer diameter         No. of bending cycles (C-track)       5 Mio. @ 25 °C   horizontal         Traversing distance (C-track)       5 m@ 25 °C   horizontal	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       3 A         Characteristic impedance $150 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire       78 $\Omega$ /km @ 20 °C         AC withstand voltage (wire - wire) $1 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $3000 \text{ pF/km}$ Power frequency withstand voltage (wire - giacket) $1 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $1 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (fixed) $30 ^{\circ} \text{ C}$ Max. operating temperature (fixed) $30 ^{\circ} \text{ C}$ Operating temperature min. (dynamic) $-20 ^{\circ} \text{ C}$ Operating temperature max. (dynamic) $60 ^{\circ} \text{ C}$ Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       10 x Outer diameter         Bending radius (dynamic)       12 x Outer diameter         No. of bending cycles (C-track)       5 Mio. @ 25 °C   horizontal	Nominal voltage AC max	250 V
Current load capacity min. wire         3 A           Characteristic impedance $150 \Omega \pm 10\% \Omega \pm 10\% \Omega + 10$		
Characteristic impedance       150 Ω ± 10 % @ 1 MHz         Electrical resistance line constant wire       78 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       1 kV @ 60 s         Electrical capacity line constant (wire - wire) 30000 pF/km         Power frequency withstand voltage (wire - shield) acket)       1 kV @ 60 s         AC withstand voltage (wire - shield)       1 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature fixed)       80 °C         Operating temperature min. (dynamic)       -20 °C         Operating temperature max. (dynamic)       60 °C         Flame resistance       U1 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 (fixed)       10 x Outer diameter         Bending radius (dynamic)       12 x Outer diameter         No. of bending cycles (C-track)       5 Mio. @ 25 °C   horizontal		
Electrical resistance line constant wire 78 \( \text{D} \text{km} \end{aligned} 20 \circ C\)  AC withstand voltage (wire - wire) 1 kV \( \text{ 60 s} \)  Electrical capacity line constant (wire - wire) 30000 pF/km  Power frequency withstand voltage (wire - glacket) 1 kV \( \text{ 60 s} \)  AC withstand voltage (wire - shield) 1 kV \( \text{ 60 s} \)  Min. operating temperature (static) -40 \( \circ C \)  Max. operating temperature (fixed) 80 \( \circ C \)  Operating temperature min. (dynamic) -20 \( \circ C \)  Operating temperature max. (dynamic) 60 \( \circ C \)  Flame resistance UL 1581 \( \frac{1}{3} \) 1100 FT2   IEC 60332-2-2   UL 1581 \( \frac{1}{3} \) 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 (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 \( \circ C \)   horizontal		
AC withstand voltage (wire - wire) 1 kV @ 60 s  Electrical capacity line constant (wire - wire) 30000 pF/km  Power frequency withstand voltage (wire - jacket) 1 kV @ 60 s  AC withstand voltage (wire - shield) 1 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -20 °C  Operating temperature max. (dynamic) 60 °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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	<u> </u>	
Electrical capacity line constant (wire - wire) 30000 pF/km  Power frequency withstand voltage (wire - facket) 1 kV @ 60 s  AC withstand voltage (wire - shield) 1 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -20 °C  Operating temperature max. (dynamic) 60 °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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal		
Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  1 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -20 °C  Operating temperature max. (dynamic)  60 °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  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal		<del>-</del>
jacket)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  AC withstand voltage (mire - shield)  Max. operating temperature (fixed)  Operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Oi 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  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of bending cycles (C-track)  5 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal		•
Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -20 °C  Operating temperature max. (dynamic) 60 °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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	jacket)	
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Oil resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter  No. of bending cycles (C-track)  5 m@ 25 °C   horizontal		
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Oil resistance Oil resistance Oil resistance Ood, application-related testing Oil resistance Ood, application-related testing Oil resistance Ood, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal		
Operating temperature max. (dynamic) 60 °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 Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal		
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 (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C    Traversing distance (C-track) 5 m @ 25 °C   horizontal		
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal		
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal		
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal		
Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal		,
Bending radius (dynamic) 12 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	Oil resistance	
No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal	Bending radius (fixed)	
Traversing distance (C-track) 5 m @ 25 °C   horizontal	Bending radius (dynamic)	12 x Outer diameter
		5 Mio. @ 25 °C
Travel speed (C-track) 3 m/s @ 25 °C	Traversing distance (C-track)	
	Travel speed (C-track)	3 m/s @ 25 °C