

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

PVC 1x2xAWG24 shielded vt UL/CSA 20m

Art.No.: 7000-44001-8502000

Weight: 1.329 Country of origin: DE

Model designation: MSBBL0-BA-F850 20.0-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 – female straight M12, 4-pole – M12, 2-pole B-coded

shielded

Plastic housings with good resistance against chemicals and oils.

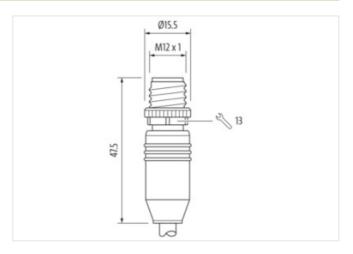
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

Link to Product

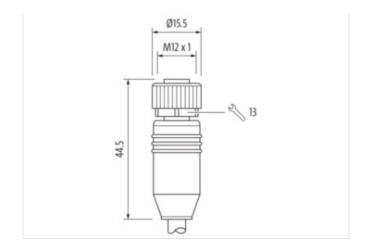
Illustration

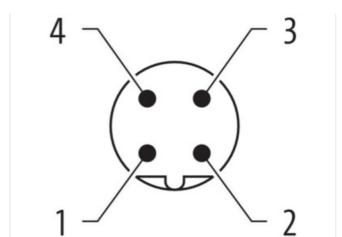


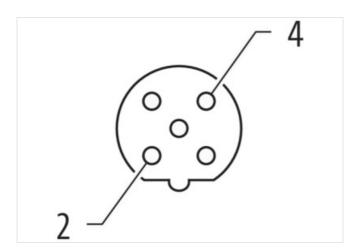


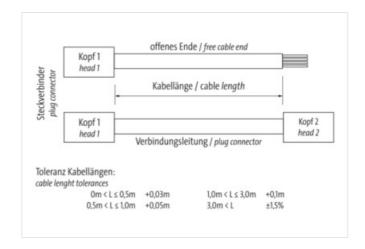


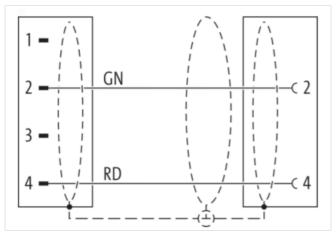
stay connected











Product may differ from Image















Header

Cable length

20.0 m

Side 1



stay connected

Family construction form	M12
No. of poles	2
Coding	В
Gender	male
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Side 2	
Family construction form	M12
No. of poles	2
Coding	В
Gender	female
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-44001-8502000
customs tariff number	85444290
EAN	4048879582704
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Current operating per contact max.	4 A
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
	···
Diagnostics	
Status indication LED	no
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP67, IP68, IP66K, IP65
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1.5 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Locking material	Zinc die-casting
-	Nickeled
Coating locking	
Coating locking Mechanical data Mounting data	
	inserted, screwed, Shaking protection



stay connected

Operating temperature max. 485 **C. Additional condition temperature range important installation notes Note on hending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Conformity Product standard DIN EN 61076-2-101 (M12) **Torduct standard DIN EN 61076-2-101 (M12) **Torduct standard DIN EN 61076-2-101 (M12) **Torduct standard Torse **Torout standard Torout standar	Operating temperature min.	
depending on cable quality important installation notes Note on bending radius Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Conformity Product standard DIN EN 61076-2-101 (M12) Installation (Cable Amount stranding 1 Stranding Nires Amount stranding 70 (copper braid, tinned Cable shielding (coverage) 70 (copper braid, tinned Cable shielding (coverage) 70 (copper braid, tinned Cable shielding (coverage) 75 (green Cable shielding (coverage) 75 (green Cable shielding (roverage) 75 (green Cable weight 75 (green Cabl	operating temperature iiiii.	-30 °C
Mote on bending radius Altention: Observe the permissable bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Conformity Product standard DIN EN 61076-2-101 (M12) Installation Cable Amount stranding If a Cable shielding (type) capper braid, tinned Cable shielding (coverage) 70 % Sanding Floece, Foll Filter yes Wire arrangement red, green Cable weight 75.9 g/m Material source insulation PE Amount vires Outer diameter insulation PE Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor orisosses wire insulation Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor diameter (lakelt) 7.8 mm Tolerance outer diameter (lakelt) 7.9 (Rikm @ 20 °C Freedom from ingredients ((acket)) 7.0 (Rikm @ 20 °C F	Operating temperature max.	85 °C
Note on bending radius Attention: Observe the parmissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Product standard DIN EN 61076-2-101 (M12) Installation Cable Amount stranding I stranding Vires Cable shielding (coverage) 70 % Banding Fleece, Foil Filler yes Wive arrangement Cable weight 75.9 g/m Material wive insulation PE Autount vires Cable weight 75.9 g/m Material wive insulation PE Amount strands (wire) Duter diameter of characaccer insulation CFC-free, halogen-free, lead-free Amount vires Conductor creassection (wire) 19 Diameter of shielp wires 36 AWG Conductor creassection (wire) Material wire outer diameter (sheat) 7.6 mm Toleranco outer diameter (sheat) 7.7 file mm Material productor wire Outer-diameter (sheat) 7.8 mm Toleranco outer diameter (sheat) 7.8 th might give the conductor resistance (wire) Withstand voltage (wire - sheiter) Current load capacity (ster - wire) Withstand voltage (wire - sheiter) Current load capacity (ster - wire) Withstand voltage (wire - sheiter) Current load capacity (ster dameter) Po C Coperating temperature (min. (fryamic) Po C Coperating temperature min. (Additional condition temperature range	depending on cable quality
endangered by excessive bending forces. Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Conformity Product standard DI Entitlo (M12) Installation Cable Minount stranding II Stranding Wires Cable shielding (type) copper braid, tinned Cable shielding (coverage) 70 % Banding Fleece, Foll Filler yes Banding Fleece, Foll Filler yes Wire arrangement red, green Cable weight 75 8.9 im Material wire insulation PE Amount wires 2 Outer diameter insulation PE Amount wires 2 Outer diameter tolerance cone insulation CFC-free, halogen-free, lead-free Amount wires of single wires Conductor crossaction (wire) 19 Diameter of single wires Outer diameter (sheat) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.8 mm Toldrandoutor wire Stranded copper wire, bare Outer diameter (glocker) 7.5 kW @ 60 s Withstand voltage (wire - shield) 1.5 kW @ 60 s Withstand voltage (wire - shield) 1.5 kW @ 60 s Withstand voltage (wire - shield) 1.5 kW @ 60 s Withstand voltage (wire - shield) 1.5 kW @ 60 s Withstand voltage (wire - shield) 1.5 kW @ 60 s Withstand voltage (wire - wire) 1.5 kW @ 60 s Withstand voltage (wire - wire) 1.5 kW @ 60 s Withstand voltage (wire - wire) 1.5 kW @ 60 s Withstand voltage (wire - wire) 1.5 kW @ 60 s Withstand voltage (wire - wire) 1.5 kW @ 60 s Withstand voltage (wire - wire) 1.5 kW @ 60 s Withstand voltage (wire - wire) 1.5 kW @ 60 s Withstand voltage (wire - wire)	Important installation notes	
Product standard DIN EN 61076-2-101 (M12)	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.
Product standard DIN EN 61076-2-101 (M12)	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Installation Cable Amount stranding	Conformity	
Amount stranding 1 Stranding Wires Cable shielding (type) copper braid, tinned Cable shielding (coverage) 70 % Banding Fleece, Foil Filler yes Wire arrangement red, green Cable weight 75.9 g/m Material wire insulation PE Amount wires 2 Outer diameter insulation 2.55 mm Outer diameter tolerance core insulation 1 Ingredient freeness wire insulation 2.55 mm Outer diameter olerance core insulation 2.55 mm Outer diameter folerance core insulation 2.54 mm Ingredient freeness wire insulation 2.4 AWG Onductor crosssaction (wire) 19 Diameter of single wires 36 AWG Conductor crosssaction (wire) 24 AWG Material jacket 1 Stranded copper wire, bare Outer-diameter (lacket) 7.8 mm Tolerance outer diameter (sheath) 2.5 % Material jacket 9 PVC Freedom from ingredients (jacket) 7.8 mm Tolerance outer diameter (sheath) 2.5 % Material jacket 9 PVC Freedom from ingredients (jacket) 7.8 k/m 20 °C Electric capacitance (wire) 7.8 k/m 20 °C Electric capacitance (wire) 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withs	Product standard	DIN EN 61076-2-101 (M12)
Amount stranding 1 Stranding Wires Cable shielding (type) copper braid, tinned Cable shielding (coverage) 70 % Banding Fleece, Foil Filler yes Wire arrangement red, green Cable weight 75.9 g/m Material wire insulation PE Amount wires 2 Outer diameter insulation 2.55 mm Outer diameter tolerance core insulation 1 Ingredient freeness wire insulation 2.55 mm Outer diameter olerance core insulation 2.55 mm Outer diameter folerance core insulation 2.54 mm Ingredient freeness wire insulation 2.4 AWG Onductor crosssaction (wire) 19 Diameter of single wires 36 AWG Conductor crosssaction (wire) 24 AWG Material jacket 1 Stranded copper wire, bare Outer-diameter (lacket) 7.8 mm Tolerance outer diameter (sheath) 2.5 % Material jacket 9 PVC Freedom from ingredients (jacket) 7.8 mm Tolerance outer diameter (sheath) 2.5 % Material jacket 9 PVC Freedom from ingredients (jacket) 7.8 k/m 20 °C Electric capacitance (wire) 7.8 k/m 20 °C Electric capacitance (wire) 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withstand voltage (wire - shield 1.5 k/w 60 s Withs	Installation Cable	
Stranding Wires Cable shielding (type) copper braid, tinned Cable shielding (coverage) 70 % Banding Fleece, Foll Filler yes Wilve arrangement red, green Cable weigth 75.9 g/m Material wire insulation PE Amount wires 2 Outer diameter rouslation 2.55 mm Ingredient freeness wire insulation CPC-free, halogen-free, lead-free Ingredient freeness wire insulation GPC-free, halogen-free, lead-free Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor crossacction (wire) 24 AWG Material conductor wire Stranded copper wire, bare Oute-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CPC-tree, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolatior resistance 1,000 MΩ × km Nominal		1
Cable shielding (overage) 70 % Gable shielding (coverage) 70 % Bandling Fleece, Foll Filler yes Wire arrangement red, green Cable weight 75.9 g/m Material wire insulation PE Amount wires 2 Quiter diameter insulation 2.55 mm Outer diameter tolerance core insulation 1.0.1 mm Ingredient freeness wire insulation CFC-free, halogen-free, lead-free Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor crossection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheet) \$ 5 % Material jacket PVC Freedom from ingredients (jacket) \$ 5 % Material jacket PVC Freedom from ingredients (jacket) \$ 5 % Material jacket PVC Freedom from ingredients (jacket) \$ 5 % Material jacket PVC	<u>_</u>	
Cable shielding (coverage) 70 % Banding Fleece, Foll Filter yes Wire arrangement red, green Cable weight 75.9 g/m Material wire insulation PE Amount wires 2 Outer diameter insulation 2.55 mm Outer diameter tolerance core insulation CFC-free, halogen-free, lead-free Amount strands (wire) 19 Diameter of Isingle wires 36 AWG Conductor crossection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Cute-diameter (alcake) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Dkm @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MQ × km Nominal voltage (wire - isoket) 1.5 kV @ 60 s Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - sheld) 1.5 kV @ 60 s <		
### Fleece, Foll		
Wite arrangement red, green		Fleece. Foil
Virtual earrangement Fed., green	Filler	·
Cable weight 75.9 g/m Material wire insulation PE Outer diameter lossulation 2.55 mm Outer diameter lossulation 2.55 mm Outer diameter tolerance core insulation 2.55 mm Outer diameter tolerance core insulation 3.0.1 mm Ingredient freeness wire insulation CFC-free, halogen-free, lead-free Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance Solotion resistance 100 MΩ x km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Current load capacity (standard) 10 DIN VDE 0298-4 Current load capacity (standard) 150 Ω 15 MHz Min. operating temperature (fixed) 70 °C Operating temperature (fixed) 70 °C Operating temperature min. (dryamic) 50 °C Caparding temperature min. (dryamic) 50 °C Operating temperature min. (dryamic) 50 °C Operating temperature min. (dryamic) 50 °C Coperating temperature min. (dryamic) 50 °C Operating temperature min. (dryamic) 50 °C Deparating temperature min. (dryamic) 50 °C Traversing distance (C-track) 5 m @ 25 °C	Wire arrangement	·
Material wire insulation PE Amount wires 2 Outer diameter insulation 2.55 mm Outer diameter tolerance core insulation 2.55 mm Outer diameter tolerance core insulation 5.0.1 mm Ingredient freeness wire insulation 6.0.2 mm Amount strands (wire) 19 Diameter of single wires 38 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (glack) 7.8 mm Tolerance outer diameter (sheath) ± 5.% Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance Isolation resistance (wire) 78 Ω/km @ 20 °C Electric capacitance Isolation resistance (wire wire) 1.5 kV @ 60 s Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - wire) 1.5 kV @ 60 s Current load capacity (standard) 1.0 DIN VDE 0298-4 Current load capacity (stand	Cable weigth	
Amount wires 2 Outer diameter insulation 2.55 mm Outer diameter tolerance core insulation ingredient freeness wire insulation CFC-free, halogen-free, lead-free Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 D/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MM × km Nominal voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - sheld) 1.5 kV @ 60 s Withstand voltage (wire - sheld) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (fixed) 70 °C Operating temperature (fixed)	Material wire insulation	
Outer diameter insulation 2.55 mm Outer diameter tolerance core insulation ± 0.1 mm Ingredient freeness wire insulation CFC-free, halogen-free, lead-free Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ x km Nominal voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - sheld) 1.5 kV @ 60 s Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature min. (dynamic) <td< td=""><td>Amount wires</td><td></td></td<>	Amount wires	
Outer diameter tolerance core insulation ± 0.1 mm Ingredient freeness wire insulation CFC-free, halogen-free, lead-free Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s 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 15 MHz Min. operating temperature (static)<	Outer diameter insulation	2.55 mm
Ingredient freeness wire insulation CFC-free, halogen-free, lead-free Amount strands (wire) 19 Diameter of single wires 36 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Ellectric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - sheld) 1.5 kV @ 60 s Current load capacity (standard) to IDIN VDE 298-4 Current load capacity inin. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) 25 °C Max. operating temperature (fixed) 70 °C Operating temperature max. (dynamic) 40 °C Operating temperature max. (dynamic) 50 °C Bending radius (dynamic) 12 × Outer diameter Bending radius (dynamic) 12 × Outer diameter On of bending cycles (C-track) 5 m@ 25 °C Travers loged (C-track) 5 m@ 25 °C Traver loged (C-track) 5 m@ 25 °C		± 0.1 mm
Amount strands (wire) Diameter of single wires 36 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) Creditable (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) Current load capacity min. wire 3 A Current load capacity min. wire 3 A Current load capacity (standard) Current load capacity min. wire 3 A Min. operating temperature (static) 25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) 20 °C Operating temperature max. (dynamic) 50 °C Bending radius (dynamic) 12 × Outer diameter Bending radius (dynamic) 12 × Outer diameter Bending radius (dynamic) 13 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 Traversing distance (C-track) 5 π @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C		
Diameter of single wires 36 AWG Conductor crossection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s 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 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature min. (dynamic) 20 °C Operating temperature max. (dynamic) 60 °C Operating temperature min. (drag chain)		
Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity inin. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 50 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic)	· , ,	36 AWG
Material conductor wire Stranded copper wire, bare Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature min. (drag chain) 20 °C Operating temperature max. (dynamic) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-trac		
Outer-diameter (jacket) 7.8 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (static) -26 °C Operating temperature min. (dynamic) -20 °C Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) <	* *	
Tolerance outer diameter (sheath) ± 5 % Material jacket PVC Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (fixed) 7.5 × Outer diameter Bending radius (fixed) 5 m @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C Traver in the capacity in		
Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ x km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) 10 DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (drag chain) -20 °C Operating temperature max. (drag chain) -50 °C Bending radius (fixed) 7.5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C Trave	Tolerance outer diameter (sheath)	± 5 %
Freedom from ingredients (jacket) CFC-free, lead-free Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature max. (dynamic) 20 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (drag chain) -20 °C Operating temperature max. (drag chain) 7.5 × Outer diameter Bending radius (fixed) 7.5 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C Traver sing distance (C-track) 3 m/s @ 25 °C Traver sing distance (C-track) 3 m/s @ 25 °C Traver sing distance (C-track) 3 m/s @ 25 °C	Material iacket	PVC
Conductor resistance (wire) 78 Ω/km @ 20 °C Electric capacitance 30,000 pF/km Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -25 °C Max. operating temperature min. (dynamic) -20 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (drag chain) -20 °C Operating temperature max. (drag chain) -50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C Trave	Freedom from ingredients (jacket)	CFC-free, lead-free
Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traver speed (C-track) 5 m @ 25 °C Traver speed (C-track) 3 m/s @ 25 °C Traver speed (C-track) 3 m/s @ 25 °C	Conductor resistance (wire)	78 Ω/km @ 20 °C
Isolation resistance 1,000 MΩ × km Nominal voltage AC max. 30 V Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traver speed (C-track) 5 m @ 25 °C Traver speed (C-track) 3 m/s @ 25 °C Traver speed (C-track) 3 m/s @ 25 °C	Electric capacitance	30,000 pF/km
Nominal voltage AC max. Withstand voltage (wire - wire) 1.5 kV @ 60 s Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature max. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Isolation resistance	· · · · ·
Withstand voltage (wire - jacket) 1.5 kV @ 60 s Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Nominal voltage AC max.	
Withstand voltage (wire - shield) 1.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Withstand voltage (wire - wire)	1.5 kV @ 60 s
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Traver speed (C-track) 3 m/s @ 25 °C	Withstand voltage (wire - jacket)	1.5 kV @ 60 s
Current load capacity min. wire 3 A Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature min. (drag chain) -20 °C Operating temperature min. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Withstand voltage (wire - shield)	1.5 kV @ 60 s
Characteristic impedance 150 Ω 15 MHz Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 70 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature min. (drag chain) -20 °C Operating temperature min. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Current load capacity (standard)	to DIN VDE 0298-4
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (drag chain) -20 °C Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Current load capacity min. wire	3 A
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature min. (drag chain) Operating temperature max. (drag chain) Operating temperature min. (drag chain) Operating temperature min. (drag chain) Operating temperature min. (drag chain) Operating temperature max. (drag chain) Operating temperature max. (drag chain) Operating temperature max. (dynamic) Operating temperature max. (dynam	Characteristic impedance	150 Ω 15 MHz
Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 60 °C Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Min. operating temperature (static)	-25 °C
Operating temperature max. (dynamic) 60 °C Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Max. operating temperature (fixed)	70 °C
Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Operating temperature min. (dynamic)	-20 °C
Operating temperature min. (drag chain) -20 °C Operating temperature max. (drag chain) 50 °C Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Operating temperature max. (dynamic)	60 °C
Bending radius (fixed) 7.5 × Outer diameter Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Operating temperature min. (drag chain)	-20 °C
Bending radius (dynamic) 12 × Outer diameter No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Operating temperature max. (drag chain)	50 °C
No. of bending cycles (C-track) 2 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Bending radius (fixed)	7.5 × Outer diameter
Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3 m/s @ 25 °C	Bending radius (dynamic)	12 × Outer diameter
Travel speed (C-track) 3 m/s @ 25 °C	No. of bending cycles (C-track)	2 Mio. @ 25 °C
	Traversing distance (C-track)	5 m @ 25 °C
Acceleration (C-track) 5 m/s² @ 25 °C	Travel speed (C-track)	3 m/s @ 25 °C
	Acceleration (C-track)	5 m/s² @ 25 °C

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: 2025-08-29

Product-PDF for Article 7000-44001-8502000

