

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

PUR AWG20/26 shielded gn UL/CSA+drag ch. 10m

Art.No.: 7000-47051-8311000

Weight: 1.011 Country of origin: DE

Model designation: MSYBL0-YA-08D831 10.0-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:

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

Ethernet CAT5
Male straight – female straight
M12 – M12, 8-pole
Y-coded

shielded

Sillelueu

Transmission properties with channel transmission up to 50 m

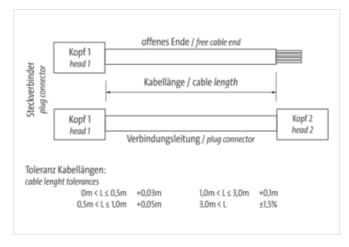
Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

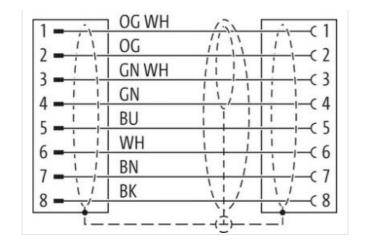
Link to Product

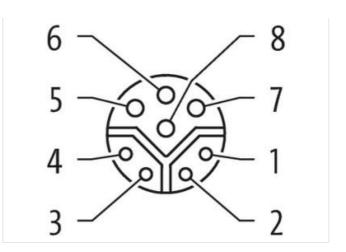
Illustration

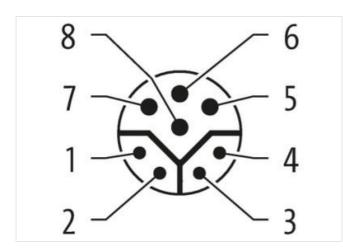


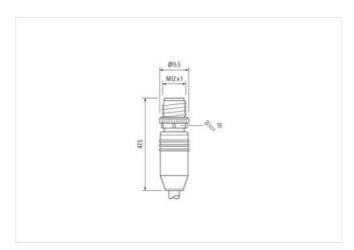


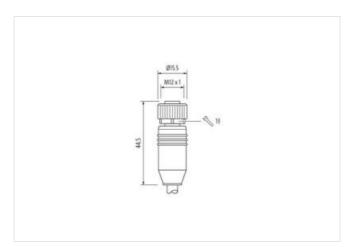












Product may differ from Image











Cable length

10 m

Side 1

Tightening torque

0,6 Nm



| Mounting method Mounting m | Manusting mathed | incested covered |
|--|--|---------------------------------------|
| Tread | | <u>`</u> |
| Cable outlet | | |
| Cable outlet straight Coding Y Material PUR No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 80529) IP65, IP66K, IP67 Side 2 Tightening torque Mounting method inserted, screwed Family construction form M12 Tread M12 x 1 Gender female Cable outlet straight Coding Y Material PUR No. of poles 8 Width across flats SW13 SCLASS-6. 27061801 ECLASS-6. 27061801 ECLASS-6. 2706307 ECLASS-6. 2706307 ECLASS-7.0 2706307 ECLASS-8.0 2706307 ECLASS-9.0 2706307 ECLASS-1.1 2706307 ECLASS-1.2 2706307 ECLASS-1.3 2706307 ECLASS-1.1 27060307 ECLASS-1.2 27060307 </td <td></td> <td></td> | | |
| Coding Y Material PUR No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Side 2 Tightening torque 0,8 Mm Mounting method Inserted, screwed Family construction form M12 Thread M12 x 1 Gender female Cable outlet straight Coding Y Material PUR No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data SW13 ECLASS-6.0 27061901 ECLASS-7.0 27060907 ECLASS-8.1 27060907 ECLASS-8.0 27060907 ECLASS-8.0 27060907 ECLASS-8.1.1 27060907 ECLASS-8.2.2 27060907 ECLASS-8.1.3 27060907 ECLASS-8.1.1 27060907 ECLASS-11.1 27060907 | | |
| Material PUR No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 60529) IPSE, IPSEK, IPS7 Side 2 Tightening torque 0,6 Nm Mounting method Inserted, screwed Family construction form M12 x 1 Gender female Cable outlet straight Coding Y Width across flats BUR No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 60529) IPSS, IPS6K, IPS7 Commercial data ECL ASS-6.0 ECL ASS-6.1 27063907 ECL ASS-6.1 27063907 ECL ASS-8.0 27063907 ECL ASS-8.0 27063907 ECL ASS-1.1 27069007 ECL | | |
| No. of poles | | |
| Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 Gender female Cabie outlet straight Coding Y Material PUR No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 ECLASS-6.0 27061801 ECLASS-7.0 27063037 ECLASS-9.0 27060307 ECLASS-9.0 27060307 ECLASS-1.1 27060307 ECLASS-1.2.0 27060307 ECLASS-1.1.1 27060307 ECLASS-1.2.0 27060307 ECLASS-1.1.1 27060307 ECLASS-1.2.0 27060307 ECLASS-1.1.1 27060307 ECLASS-1.2.0 27060307 ECLASS-1 | | |
| Degree of protection (EN IEC 60529) IP65, IP66K, IP67 | | |
| Side 2 Tightning torque 0,6 Nm Mounting method Inserted, screwed Family construction form M12 Thread M12 x1 Gender female Cable outlet straight Coding Y Material PUR No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 ECLASS-8.0 2706907 ECLASS-8.0 27069307 ECLASS-8.0 2706907 ECLASS-9.0 2706907 ECLASS-1.1 2706907 ECLASS-1.2 2706907 ECLASS-1.1 2706907 ECLASS-1.1 2706907 ECLASS-1.2.0 2706907 ECLASS-1.1 2706907 ECLASS-1.2.0 2706907 ECLASS-1.1 2706907 ECLASS-1.2.0 2706907 ECLASS-1.2.0 2706907 ECLASS-1.1 2706907 </td <td></td> <td></td> | | |
| Tightening torque 0,6 Nm Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 Gender female Cable outlet straight Coding Y Material PUR No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66, IP67 Commercial data ECLASS-6.0 2706307 ECLASS-6.1 27060307 ECLASS-1.0 27060307 ECLASS-1.1 1 27060307 ETMS-5.0 ECON18S5 Customs tariff number 85444290 Customs tariff number 85444290 EAN 4048679642606 EAN 4048879642606 EAN 4048879642606 EAN 4048879642606 EAN 4048879642606 EAN 4048879642606 EAN 50 V Operating voltage AC max. 50 V | Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |
| Mounting method | Side 2 | |
| Family construction form M12 | Tightening torque | 0,6 Nm |
| Thread | Mounting method | inserted, screwed |
| Gender | Family construction form | M12 |
| Cable outlet | Thread | M12 x 1 |
| Coding | Gender | female |
| Material PUR No. of poles 8 | Cable outlet | straight |
| No. of poles | Coding | Υ |
| Width across flats | Material | PUR |
| Degree of protection (EN IEC 60529) IP65, IP66K, IP67 | No. of poles | 8 |
| Commercial data | Width across flats | SW13 |
| ECLASS-6.0 27061801 ECLASS-6.1 27060307 ECLASS-7.0 27060307 ECLASS-8.0 27060307 ECLASS-9.0 27060307 ECLASS-9.0 27060307 ECLASS-10.1 27060307 ECLASS-11.1 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-12.0 19060307 ECLASS | Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |
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| ECLASS-7.0 27060307 ECLASS-8.0 27060307 ECLASS-9.0 27060307 ECLASS-1.1 27060307 ECLASS-11.1 27060307 ECLASS-12.0 27060307 ETIM-5.0 EC01855 customs tariff number 85444290 EAN 4048879642606 EAN 4048879642606 EAN 4048879642606 Packaging unit 1 Packaging unit 1 Electrical data Supply Operating voltage AC max. 50 V Operating voltage DC max. 50 V Operating voltage DC (UL-listed) 30 V Current operating per contact (UL) 3,3 A Operating current per data contact max. 6 A Industrial communication Transfer parameters CAT5e, Class D (ISO/IEC 11801) Data transmission rate max. 100 MBit/s Industrial communication Ethernet functionality duplex Full duplex | ECLASS-6.0 | 27061801 |
| 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 4048879642606 EAN 4048879642606 EAN 4048879642606 Packaging unit 1 Packaging unit 1 Electrical data Supply Operating voltage AC max. 50 V Operating voltage AC max. 50 V Operating voltage DC (UL-listed) 30 V Operating vortage DC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Operating current per data contact max. 0,5 A Operating current per data contact max. 6 A Industrial communication Transfer parameters CAT5e, Class D (ISO/IEC 11801) Data transmission rate max. 100 MBit/s Industrial communication Ethernet functionality duplex | ECLASS-6.1 | 27060307 |
| ECLASS-9.0 27060307 ECLASS-10.1 27060307 ECLASS-11.1 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ETIM-5.0 EC001855 customs tariff number 8544290 customs tariff number 8544290 EAN 4048879642606 EAN 4048879642606 EAN 4048879642606 Packaging unit 1 Electrical data Supply Operating voltage AC max. 50 V Operating voltage AC max. 50 V Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 30 V Operating voltage pc contact (UL) 3,3 A Operating current per data contact max. 0,5 A Operating current per data contact max. 6 A Industrial communication Transfer parameters CAT5e, Class D (ISO/IEC 11801) Data transmission rate max. 100 MBit/s Industrial communication Ethernet functionality duplex Full duplex | ECLASS-7.0 | 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 4048879642606 EAN 4048879642606 EAN 4048879642606 Packaging unit 1 Packaging unit 1 Electrical data Supply Operating voltage AC max. 50 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Current operating per contact (UL) 3,3 A 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 functionality duplex Full duplex | ECLASS-8.0 | 27060307 |
| ECLASS-11.1 27060307 ECLASS-12.0 27060307 ETIM-5.0 EC001855 customs tariff number 85444290 customs tariff number 85444290 EAN 4048879642606 EAN 4048879642606 Packaging unit 1 Packaging unit 1 Electrical data Supply Operating voltage AC max. 50 V Operating voltage AC (UL-listed) 30 V Operating voltage DC mus. 50 V Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Operating current per data contact max. 0,5 A Operating current per data contact max. 6 A Industrial communication Transfer parameters CAT5e, Class D (ISO/IEC 11801) Data transmission rate max. 100 MBit/s Industrial communication Ethernet functionality duplex | ECLASS-9.0 | 27060307 |
| ECLASS-12.0 27060307 ETIM-5.0 EC001855 customs tariff number 85444290 customs tariff number 85444290 EAN 4048879642606 EAN 4048879642606 Packaging unit 1 Electrical data Supply Operating voltage AC max. 50 V Operating voltage AC max. 50 V Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 30 V Current operating per contact (UL) 3,3 A 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 functionality duplex Full duplex | ECLASS-10.1 | 27060307 |
| ETIM-5.0 EC001855 customs tariff number 85444290 customs tariff number 85444290 EAN 4048879642606 EAN 4048879642606 Packaging unit 1 Packaging unit 1 Electrical data Supply Operating voltage AC max. 50 V Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 30 V Current operating per contact (UL) 3,3 A 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 functionality duplex Full duplex | ECLASS-11.1 | 27060307 |
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| Industrial communication Transfer parameters CAT5e, Class D (ISO/IEC 11801) Data transmission rate max. 100 MBit/s Industrial communication Ethernet functionality duplex Full duplex | | |
| Data transmission rate max. 100 MBit/s Industrial communication Ethernet functionality duplex Full duplex | | |
| Industrial communication Ethernet functionality duplex Full duplex | Transfer parameters | CAT5e, Class D (ISO/IEC 11801) |
| duplex Full duplex | Data transmission rate max. | 100 MBit/s |
| | Industrial communication Ethernet functi | onality |
| Diagnostics | duplex | Full duplex |
| | Diagnostics | |



| Status indication LED | no |
|---|--|
| | |
| Installation Pin assignment | |
| Configuration | fully used |
| Device protection Electrical | |
| Degree of protection (EN IEC 60529) | IP65, IP67, IP66K |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree | 3 |
| Rated surge voltage | 0,8 kV |
| Material group (IEC 60664-1) | I |
| Mechanical data | |
| Contour for corrugated hose | without |
| Mechanical data Material data | |
| Color housing | black |
| Coating locking | Nickeled |
| Color contact carrier | green |
| Material gasket | FKM |
| Locking material | Zinc die-casting |
| Material screw connection | Zinc die-casting |
| Mechanical data Mounting data | |
| Mounting method | inserted, screwed, Shaking protection |
| Environmental characteristics Climatic | |
| · | -25 °C |
| Operating temperature min. Operating temperature max. | 85 °C |
| Additional condition temperature range | depending on cable quality |
| | asponding on outlie quanty |
| 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 handing radius | 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. |
| Conformity | endangered by excessive bending forces. |
| - | endangered by excessive bending forces. DIN EN 61076-2-113 (M12) |
| Conformity | |
| Conformity Product standard | |
| Conformity Product standard Installation cable 2 | DIN EN 61076-2-113 (M12) |
| Conformity Product standard Installation cable 2 Cable identification | DIN EN 61076-2-113 (M12) 831 |
| Conformity Product standard Installation cable 2 Cable identification Function cable | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (type) | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Pair shielding (type) Banding | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned Fleece, Foil |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Pair shielding (type) Banding wire arrangement | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned Fleece, Foil (black, brown, white, blue), (orange-white, orange, green-white, green) |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Pair shielding (type) Banding wire arrangement Cable weigth | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned Fleece, Foil (black, brown, white, blue), (orange-white, orange, green-white, green) 107,8 g/m |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Pair shielding (type) Banding wire arrangement Cable weigth Material jacket | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned Fleece, Foil (black, brown, white, blue), (orange-white, orange, green-white, green) 107,8 g/m PUR |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (type) Banding wire arrangement Cable weigth Material jacket Shore hardness jacket | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned Fleece, Foil (black, brown, white, blue), (orange-white, orange, green-white, green) 107,8 g/m PUR 90 ± 5 Shore A |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Pair shielding (type) Banding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned Fleece, Foil (black, brown, white, blue), (orange-white, orange, green-white, green) 107,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Pair shielding (type) Banding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned Fleece, Foil (black, brown, white, blue), (orange-white, orange, green-white, green) 107,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 8,1 mm |
| Conformity Product standard Installation cable 2 Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Pair shielding (type) Banding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) | DIN EN 61076-2-113 (M12) 831 Hybrid, Data, Power green cURus 1 4 wires around Core filler star-shaped twisted 1 4 wires with 1 Stranding combination with Filler twisted copper braid, tinned 85 % copper braid, tinned Fleece, Foil (black, brown, white, blue), (orange-white, orange, green-white, green) 107,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |



| Amount wires | 4 |
|---|--|
| Outer diameter insulation | 1,5 mm |
| Outer diameter tolerance core insulation | ±5% |
| Shore hardness wire insulation | 55 ± 5 Shore D |
| Ingredient freeness wire insulation | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount strands (wire) | 19 |
| Diameter of single wires | 32 AWG |
| Conductor crosssection (wire) | 20 AWG |
| Material conductor wire | Stranded copper wire, bare |
| Material wire insulation (Data) | PP |
| Outer diameter wire insulation (Data) | 1,1 mm |
| Tolerance outer diameter wire insulation (data) | ±5% |
| Shore hardness wire insulation (Data) | 55 ± 5 Shore D |
| Ingredient freeness wire insulation (Data) | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount wires (Data) | 4 |
| Amount strands wire (Data) | 19 |
| Diameter of single wires (Data) | 38 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 (Data) | 2.4 A |
| Current carrying capacity min. wire (Power | · |
| Characteristic impedance | 100 Ω ± 15 % @ 1 MHz |
| Electrical resistance line constant wire | 35 Ω/km |
| Electrical resistance coating wire (Data) | 140 Ω/km @ 20 °C |
| AC withstand voltage (wire - wire) | 1 kV @ 60 s |
| Electrical capacity line constant (wire - wire | e) 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 × km |
| Min. operating temperature (static) | -40 °C |
| | |
| Max. operating temperature (fixed) | 80 °C / 90 °C @ 10000 h Operation |
| Operating temperature min. (dynamic) | -30 °C |
| Operating temperature max. (dynamic) | 80 °C / 90 °C @ 10000 h Operation |
| Flame resistance | IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 |
| chemical resistance | Good, application-related testing |
| Gasoline resistance | Good, application-related testing |
| Oil resistance | DIN EN 60811-404 Good, application-related testing |
| Bending radius (fixed) | 5 x Outer diameter |
| Bending radius (dynamic) | 10 x Outer diameter |
| No. of bending cycles (C-track) | 5 Mio. @ 25 °C |
| Traversing distance (C-track) | 5 m @ 25 °C |
| Travel speed (C-track) | 3,3 m/s @ 25 °C |
| No. of torsion cycles | 2 Mio. |
| Torsion stress | ± 30 °/m |
| Torsion speed | 35 cycles/min |