




















USB3 Type #4

- for medium load requirements
- PUR outer jacket
- shielded
- oil-resistant and coolant-resistant
- notch-resistant
- PVC-free/halogen-free
- flame-retardant
- hydrolysis-resistant and microbe-resistant

| | | |
|---|-----------------------------------|---|
|  | Conductor | Stranded conductor in especially bending-resistant version consisting of bare copper wires (following EN 60228). |
|  | Core insulation | According to bus specification. |
|  | Core stranding | According to bus specification. |
|  | Core identification | According to bus specification ▶ Schedule delivery program |
|  | Overall shield | Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical. |
|  | Outer jacket | Low-adhesion, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in energy chains* (following DIN VDE 0282 Part 10). Colour: Red lilac (similar to RAL 4001) |
|  | Bending radius | moved minimum 12,5 x d fixed minimum 7,5 x d |
|  | Temperature | moved -20 °C to +70 °C fixed -40 °C to +70 °C |
|  | v max. unsupported/gliding | 3 m/s, 2 m/s |
|  | a max. | 30 m/s ² |
|  | Travel distance | Freely suspended travel distances and up to 20 m for gliding applications, Class 2 |
|  | UV-resistant | Medium |
|  | Nominal voltage | 50 V |
|  | Testing voltage | 500 V |
|  | Oil | Oil-resistant (following DIN EN 50363-10-2), Class 3. |
|  | Offshore | MUD-resistant following NEK 606 – status 2009. |
|  | Flame-retardant | According to IEC 60332-1-2, CEI 20-35, FT1, WW-1 |
|  | Silicon-free | Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992). |
|  | Halogen-free | Following EN 50267-2-1. |

| | | |
|---|-------------------|--|
|  | UL/CSA | Style 1598 and 20236, 30 V, 80 °C |
|  | NFPA | Following NFPA 79-2012 chapter 12.9 |
|  | CEI | Following CEI 20-35 |
|  | CE | Following 2006/95/EG |
|  | DESINA | According to VDW, DESINA standardisation |
|  | Lead free | Following 2011/65/EC (RoHS-II) |
|  | Clean room | According to ISO Class 1. Outer jacket material complies with CF77.UL.05.12.D, tested by IPA according to standard 14644-1 |
|  | CTP | Certified according to N° C-DE.PB49.V.00396 |
|  | EAC | Certified according to N° TC RU C-DE.ME77.B.00963 |

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| Double strokes* | v max. [m/s] | a max. [m/s ²] | Travel distance [m] | 5 million R min. [factor x d] | 7,5 million R min. [factor x d] | 10 million R min. [factor x d] |
|---------------------------|--------------|----------------------------|---------------------|-------------------------------|---------------------------------|--------------------------------|
| Temperature, from/to [°C] | unsupported | gliding | | | | |
| -20 / -10 | | | 30 | ≤20 | 15 | 16 |
| -10 / +60 | 3 | 2 | | | 12,5 | 13,5 |
| +60 / +70 | | | | | 15 | 16 |

* higher number of double strokes possible

Typical application area

- for medium load requirements
- almost unlimited resistance to oil
- indoor and outdoor applications without direct sun radiation
- freely suspended travel distances and up to 20 m for gliding applications
- Bus connection cable for machining units/machine tools, low-temperature applications

| Delivery program Part No. | Number of cores and conductor nominal cross section [mm ²] | External diameter max. [mm] | Copper index [kg/km] | Weight [kg/km] | Delivery program Part No. | Characteristic wave impedance approx. [Ω] | Core group | Colour code |
|----------------------------------|--|-----------------------------|----------------------|----------------|----------------------------------|---|--------------------------|--|
| Profibus | | | | | Profibus | | | |
| CFBUS.PUR.001 | (2x0,25)C | 8,5 | 27 | 74 | CFBUS.PUR.001 | 150 | (2x0,25)C | red, green |
| CAN-Bus | | | | | CAN-Bus | | | |
| CFBUS.PUR.021 | (2x0,5)C | 8,5 | 33 | 83 | CFBUS.PUR.021 | 120 | (2x0,5)C | white, brown |
| CFBUS.PUR.022 ²⁰ | (4x0,5)C | 8,5 | 46 | 93 | CFBUS.PUR.022 ²⁰ | 120 | (4x0,5)C | white, green, brown, yellow (star-quad stranding) |
| Ethernet/CAT5/GigE | | | | | Ethernet/CAT5/GigE | | | |
| CFBUS.PUR.040 ²⁰ | (4x0,25)C | 6,5 | 30 | 68 | CFBUS.PUR.040 ²⁰ | 100 | (4x0,25)C | white, green, brown, yellow (star-quad stranding) |
| CFBUS.PUR.045 | (4x(2x0,15))C | 7,5 | 35 | 68 | CFBUS.PUR.045 | 100 | (4x(2x0,15))C | white-blue/blue, white-orange/orange, white-green/green, white-brown/brown |
| Ethernet/CAT6_A | | | | | Ethernet/CAT6_A | | | |
| CFBUS.PUR.050 | 4x(2x0,20)C | 9,5 | 69 | 122 | CFBUS.PUR.050 | 100 | 4x(2x0,20)C | white/blue, white/orange, white/green, white/brown |
| FireWire IEEE 1394b | | | | | FireWire IEEE 1394b | | | |
| CFBUS.PUR.056 | (2x(2x0,15)C+2x0,38)C | 9,0 | 62 | 94 | CFBUS.PUR.056 | 100 | (2x(2x0,15)C+2x0,38) | orange/blue, blue/red, black, white |
| Profinet | | | | | Profinet | | | |
| CFBUS.PUR.060 ^{20/16} | (4x0,38)C | 7,0 | 35 | 66 | CFBUS.PUR.060 ^{20/16} | 100 | (4x0,38)C | white, orange, blue, yellow (star-quad stranding) |
| USB 3.0 | | | | | USB 3.0 | | | |
| CFBUS.PUR.068 | (2x(2xAWG28)+2x(2xAWG28)C)C | 7,0 | 41 | 66 | CFBUS.PUR.068 | 90 | 2x(2xAWG28)+2x(2xAWG28)C | red/black, green/white-green, blue/yellow, red/fioletowy |