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| 2170144 | DATA SHEET |  |
| valid from: 2025-12-19 | UNITRONIC® LAN 600 S/FTP Cat.7 Y Flex 4x2x26/7 AWG | |

Application

Flexible data cable for transmission of digital and analog signals up to 600 MHz. The cable is mainly designed for the use in the area of the workstation. According to TIA/EIA-568-B, ISO/IEC 11801 2nd edition, EN 50173, EN 50288-4-2, IEC 61156-6. For application in LANs like IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; FDDI; ISDN; ATM; Cable sharing.

Design

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| Conductor | stranded bare copper AWG 26/7 |
| Insulation | Skin-Foam-Skin PE (Polyethylene), ca. 1.03 mm core diameter |
| Core identification code | pair 1: white-blue/blue, pair 2: white-orange/orange, pair 3: white-green/green, pair 4: white-brown/brown (colored ring marking on the white cores is optional) |
| Stranding | cores stranded to pair, 4 pairs stranded to bundle |
| Pair screen | plastic laminated aluminum foil |
| Screen | braid of tinned copper wires (coverage: nom. 70 %) |
| Outer sheath | PVC grey, similar RAL 7035 outer diameter: approx. 6.2 mm |

Electrical properties at 20 °C

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| Loop resistance | max. 29 Ω/100 m |
| Insulation resistance | min. 2 GΩ x km |
| Mutual capacitance | nom. 45 nF/km |
| Characteristic impedance | nom. 100 Ω acc. to IEC 61156-6 |
| Velocity of propagation | 0.78 c |
| Signal propagation time | ≤ 450 ns/100 m |
| Maximum operating voltage | 100 V (not intended to be used in conjunction with low impedance sources, such as power grids) |
| Test voltage | Core/Core: 700 V Core/Screen: 700 V |

Mechanical and thermal properties

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| Minimum bending radius | during installation: 8 x cable diameter fixed installation: 4 x cable diameter |
| Temperature range | during installation: 0 °C up to +50 °C fixed installation: -20 °C up to +60 °C |
| Flammability | flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 |
| General requirements | These cables conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances) and the LV-Directive 2014/35/EU (Low voltage Directive). |

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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