

2170144	DATA SHEET	 LAPP
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

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

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

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 are 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).

AbN
automation

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