2170129	DATA SHEET	
valid from: 10.02.2020	UNITRONIC® LAN 200 SF/UTP Cat.5e Y Flex 4x2x26/7 AWG	

Application

Flexible data cable for transmission of digital and analog signals up to 200 MHz. The cable is mainly designed for the use in the area of the workstation. According to TIA/EIA-568, ISO/IEC 11801 2nd edition, EN 50173, EN 50288-2-2, IEC 61156-6.
For application in LANs like IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T; FDDI; ISDN; ATM.

Design

Conductor	bare copper AWG 26/7, stranded wire
Insulation	PE, ca. 0.96 mm outer Ø
Core identification code	pair 1: white-blue/blue, pair 2: white-orange/orange, pair 3: white-green/green, pair 4: white-brown/brown
Stranding	cores stranded to pair, 4 pairs stranded to bundle
Screen	plastic laminated aluminum foil on top: braid of copper wire, tinned wire ca. 0,10 mm
Outer sheath	PVC grey, similar to RAL 7035 outer Ø: ca. 5.8 mm

Electrical properties at 20°C

Loop resistance	max. 29 Ω/100 m
Insulation resistance	min. 2 GΩ x km
Mutual capacitance	nom. 50 nF/km
Characteristic impedance	nom. 100 Ω acc. to IEC 61156-6
Velocity of propagation	0.67 c
Signal propagation time	≤ 510 ns/100 m
Delay	≤ 25 ns/100 m
Screening attenuation	> 40 dB
Peak operating voltage	100 V (not for power purposes)
Test voltage	Core/Core: 700 V Core/Screen: 700 V

Mechanical and thermal properties

Minimum bending radius	during installation: 8 x cable Ø fixed: 4 x cable Ø
Temperature range	during installation: 0° C up to +50° C fixed: -20° C up to +70° 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).

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