

**UNITRONIC® LAN 200 F/UTP Cat. 5e Y Flex  
4x2xAWG 26/7****DB2170127**

valid from: 18.03.2013

**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	acc. to IEC 708-1
Stranding	4 pairs, stranded to bundle
Screening	plastic laminated aluminum foil with stranded drain wire
Outer sheath	PVC, grey similar to RAL 7035, outer Ø: ca. 5.4 mm

**Electrical properties at 20° C**

Resistance (loop)	max. 290 Ω/km, acc. to VDE 0812
Insulation resistance	min. 2 GΩxkm
Mutual capacitance	nom. 50 nF/km
Characteristic impedance	100 Ω ±5 Ω (at 100 MHz)
Velocity of propagation	ca. 0.67 c
Signal propagation time	<510 ns/100m
Delay difference	<25 ns/100m
Coupling attenuation	>55 dB (up to 100 MHz)
Screening attenuation	>40 dB (up to 100 MHz)
Test voltage	700 V (AC)

**Transmission properties**

f [MHz]	Attenuation nom. [dB/10m]	NEXT nom. [dB]	ACR nom. [dB/10m]	ELFEXT nom. [dB/10m]	RL nom. [dB]
<b>1</b>	0.30	73	73	68	23
<b>4</b>	0.58	65	64	58	26
<b>10</b>	0.93	62	61	51	30
<b>16</b>	1.20	60	59	45	30
<b>20</b>	1.32	58	57	42	30
<b>31.25</b>	1.68	55	53	38	30
<b>62,5</b>	2.43	50	48	34	30
<b>100</b>	3.12	48	45	30	28
<b>155</b>	3.52	46	42	27	26
<b>200</b>	4.05	45	41	23	24

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**Mechanical and thermal properties**

Minimum bending radius	during installation: 8 x cable Ø static: 4 x cable Ø
Permissible temperature range	during installation: 0 ° C up to +50 ° C static: -20 ° C up to +60 ° C
Flame propagation	flame retardant acc. to IEC 60332-1-2
General requirements	Dangerous and forbidden substances acc. to RoHS directive (2002/95/EG) are not allowed to the manufacturing.