



DATA SHEET	2170136
UNITRONIC® LAN FTP-H 200 MHz CAT.5e 4x2x AWG24/1	Date: 11.12.2009

Application

Data cable for transmission of digital and analogical signals up to 200 MHz. It's designed for horizontal cabling subsystems as connection between a floor distribution and the telecommunication outlets (TO's). According to TIA/EIA-568-B.2, ISO/IEC 11801 2nd ed., EN 50173-1, EN 50288-2-1; IEC 61156-5. For LANs IEEE 802.3; Fast- and Gigabit-Ethernet.

Design

Conductor	bare copper conductor AWG 24/1		
Core Insulation	SFS-PE		
Color code		a-core	b-core
	pair 1:	white(-blue)	blue
	pair 2:	white(-orange)	orange
	pair 3:	white(-green)	green
	pair 4:	white(-brown)	brown
Stranding	cores twisted to pairs, plastic foil around all pairs		
Screen	plastic laminated aluminum foil + drain wire		
Sheath	halogen free sheath (FRNC), grey , sheath thickness 0,6mm		
Outer diameter Ø	6,1 mm		

Electrical characteristics at 20°C

Loop impedance		max.Ω/100 m	19
Insulation resistance		min. GΩ x km	5
Operating capacitance		nom. nF/km	50
Char. impedance	1 up to 100 MHz	Ω	100 ± 15
Rel. propagation velocity		ca. 0.74 c	
test voltage		700 V-AC	

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Frequency [MHZ]	Attenuation [dB/100m]		NEXT [dB]		EL-FEXT [dB]		RL [dB]	
	NOM	MAX CAT.5e	NOM	MIN CAT.5e	NOM	MIN CAT.5e	NOM	MIN CAT.5e
1	1,8	[2,1]	80	65,3	65	[64]	23	[20]
4	3,7	4,0	75	56,3	56	52	26	23
10	5,9	6,3	70	50,3	45	44	28	25
16	7,4	8,0	68	47,3	41	40	28	25
20	8,3	9,0	65	45,8	39	38	28	25
31,25	10,3	11,4	60	42,9	35	34	28	23,6
62,5	14,4	16,5	56	38,4	30	28	26	21,5
100	18,2	21,3	52	35,3	25	24	25	20,1
155	19,9	n. def.	47	n. def.	24	n. def.	24	n. def.
200	23,8	n. def.	44	n. def.	21	n. def.	22	n. def.

NEXT Near-end crosstalk
 EL-FEXT Equal level far-end crosstalk
 RL Return loss
 values in [] are purely calculative values and only for information

Mechanical and thermal properties

minimum bending radius

installation

8xØ

stationary

4xØ

temperature range

stationary

°C

-20 up to + 60

flexing

°C

0 up to + 50

max. tractive force

N

90

flammability

acc.

IEC 60332-1-2

smoke density

acc.

IEC 61034-2

halogen free

acc.

IEC 60754-1

corrosivity

acc.

IEC 60754-2