



DATA SHEET

2170140

UNITRONIC® LAN S-FTP-H 200 MHz CAT.5e 2x(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, ISO/IEC 11801 2nded., EN 50173-1, EN 50288-2-1; IEC 61156-5. For LANs IEEE 802.3; Fast- and Gigabit-Ethernet.

Design

Conductor	solid bare copper AWG24/1		
Core insulation	SFS-PE		
Colour 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 aluminium foil + tinned copper braid		
Sheath	halogen free sheath, flame retardant acc. 60332-1-2, grey		
Outer diameter Ø	duplex ca. 13,2 x 6,5		

Electrical data

conductor loop resistance		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

100