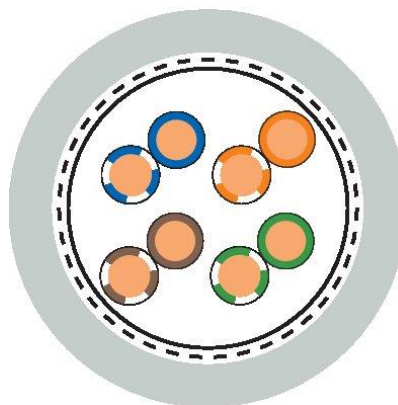


2170951	DATA SHEET	
Valid from: 01.05.2018	ETHERLINE® LAN 200 Cat.5e SF/UTP	

Description

ETHERLINE® LAN 200 Cat.5e SF/UTP is an installation cable for structured horizontal cabling. These cables are ideal for LAN data transmission in all Ethernet (IEEE 802.3) applications up to 1000 Base-T. IEC 61156-5/ISO/IEC 11801, EN 50173-1, EIA/TIA 568C.2



General characteristics

Conductor	Solid bare copper wire, AWG 24/1
Insulation	solid polyethylene
Core identification code	Pair 1: white/blue – blue Pair 2: white/orange – orange Pair 3: white/green – green Pair 4: white/brown – brown
Stranding	two cores stranded to pairs
Screening	aluminum laminated polyester foil <u>above:</u> braiding of tinned copper wires
Outer sheath	PVC compound outer Ø: approx. 6.3 mm color: grey, similar to RAL 7035

Mechanical characteristics

Minimum bending radius	at installation: 4 x cable Ø fixed installation: 8 x cable Ø
Permissible temperature range	at installation: 0 °C up to +50 °C fixed installation: -20 °C up to +60 °C
Flame propagation	flame retardant acc. to IEC 60332-1-2
Classification of fire behaviour acc. to EU Regulation 305/2011 (CPR)	Eca (acc. to EN13501-6 and EN50575)

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Electrical characteristics

DC-Resistance (loop)	max. 176.0 Ω /km
Insulation resistance	min. 5 G Ω x km
Mutual capacitance	nom. 50 nF/km at 1 kHz
Characteristic impedance	nom. 100 Ω acc. to IEC 61156-5
Operating peak voltage	100 V (not for power purposes)
velocity of propagation	approx. 0.69 c
Test voltage	core/core: 700 V

Transmission properties

Transmission properties acc. to IEC 61156-5 for Category Cat.5e:

f [MHz]	Attenuation [dB/100m]		PS NEXT [dB]		EL FEXT [dB]		Return Loss [dB]	
	standard	typical	standard	typical	standard	typical	standard	typical
1*	2.1	1.9	65	83	64	83	20.0	31
4	4.1	3.7	56	73	52	71	23.0	33
10	6.5	5.7	50	71	44	63	25.0	37
16	8.3	7.5	47	68	40	59	25.0	27
31,25	11.7	10.5	43	63	34	55	23.6	38
62,5	17.0	15.0	38	57	28	49	21.5	33
100	22.0	19.1	35	49	24	47	20.1	28
155	-	23.2	-	45	-	41	-	25
200	-	25.5	-	41	-	37	-	22

* Extract of normative minimum requirements

Standard

EU-Directive	Dangerous and forbidden substances acc. to RoHS directive (2011/65/EU) are not allowed to the manufacturing.
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