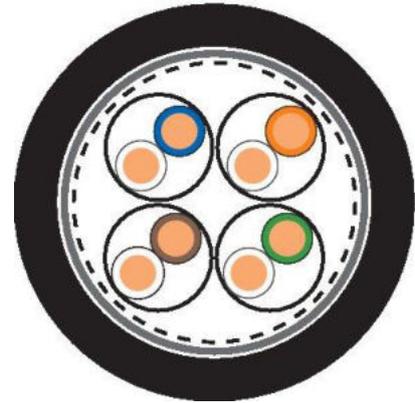


2170978	DATA SHEET	
Valid from: 13.11.2018	ETHERLINE® LAN 1000 Cat.7 S/FTP PE OUTDOOR	

Description

ETHERLINE® LAN 1000 Cat.7 S/FTP PE OUTDOOR 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 10GBase-T. The copper braid overall screen offers protection against electromagnetic interference as well as mechanical reinforcement. The cable has PE outer sheath and is suitable for outdoor usage but not for direct burial. ISO/IEC 11801, EN 50173-1, IEC 61156-5



General characteristics

Conductor	Solid bare copper wire, AWG 23/1
Insulation	solid polyethylene
Core identification code	Pair 1: white - blue Pair 2: white - orange Pair 3: white - green Pair 4: white - brown
Stranding	two cores stranded to pairs
Pair screening	Aluminum laminated plastic foil
Stranding	Pairs stranded to bundle
Screening	Braiding of tinned copper wires
Outer sheath	PE compound outer Ø: approx. 7.7 mm color: black, similar to RAL 9005

Mechanical characteristics

Minimum bending radius	at installation: 4 x cable Ø fixed installation: 8 x cable Ø
Permissible temperature range	at installation: -10 °C up to +50 °C fixed installation: -30 °C up to +70 °C
Classification of fire behaviour acc. to EU Regulation 305/2011 (CPR)	Fca (acc. to EN13501-6 and EN50575)

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2170978	DATA SHEET	
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Electrical characteristics

DC-Resistance (loop)	max. 150.0 Ω/km
Insulation resistance	min. 5 GΩ x km
Mutual capacitance	nom. 43 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. 0.79 c
Test voltage	core/core: 1000 V

Transmission properties

Transmission properties acc. to IEC 61156-5 for Category Cat.7:

f [MHz]	Attenuation [dB/100m]		PS NEXT [dB]		EL FEXT [dB]		Return Loss [dB]	
	standard	typical	standard	typical	standard	typical	standard	typical
1*	2.0	1.8	78	103	78	101	20.0	-
4	3.7	3.4	78	103	78	101	23.0	29
10	5.9	5.3	78	103	75	96	25.0	35
16	7.4	6.7	78	103	71	91	25.0	35
31,25	10.4	9.5	78	103	65	85	23.6	35
62,5	14.9	13.7	78	103	59	81	21.5	34
100	19.0	17.2	75	102	55	80	20.1	34
200	27.5	24.5	71	100	49	80	18.0	34
300	34.2	30.3	68	96	46	75	17.3	32
600	50.1	43.2	64	92	40	71	17.3	31
900	58.5	53.5	61	90	36	60	15.5	25
1000	61.9	56.8	60	89	35	55	15.1	23

* 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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