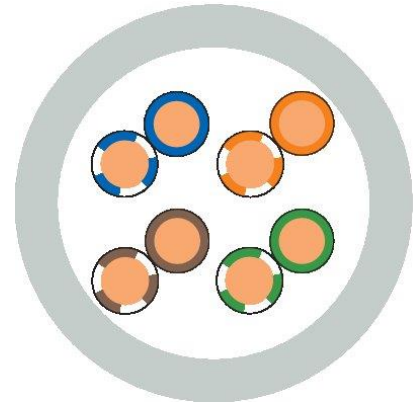


2170950	<b>DATA SHEET</b>	
Valid from: 01.05.2018	<b>ETHERLINE® LAN 200 Cat.5e U/UTP</b>	

## Description

**ETHERLINE® LAN 200 Cat.5e U/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
Outer sheath	PVC compound outer Ø: approx. 5.1 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 GΩ x km
Mutual capacitance	nom. 50 nF/km at 1 kHz
Characteristic impedance	nom. 100 Ω acc. to IEC 61156-5
Operating peak voltage	125 V (not for power purposes)
velocity of propagation	approx. 0.67 c
Signal propagation time	510 ns / 100 m
Delay difference	20 ns / 100 m
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
<b>1*</b>	2.1	1.9	65	73	64	72	20.0	28
<b>4</b>	4.1	3.8	56	65	52	60	23.0	30
<b>10</b>	6.5	6.0	50	60	44	55	25.0	30
<b>16</b>	8.3	7.7	47	58	40	50	25.0	32
<b>31,25</b>	11.7	10.9	43	52	34	44	23.6	30
<b>62,5</b>	17.0	15.7	38	49	28	41	21.5	28
<b>100</b>	22.0	19.8	35	42	24	36	20.1	25
<b>155</b>	-	25.8	-	39	-	29	-	22
<b>200</b>	-	29.4	-	37	-	25	-	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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