
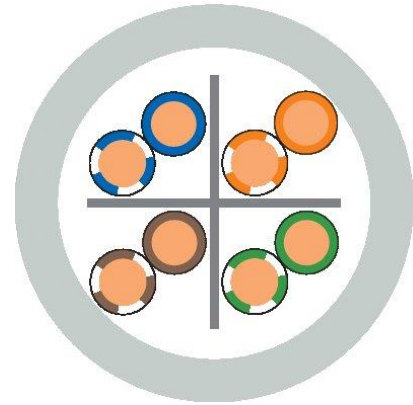


2170954	DATA SHEET	
Valid from: 01.05.2018	ETHERLINE® LAN 350 Cat.6 U/UTP	

Description

ETHERLINE® LAN 350 Cat.6 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, pairs are separated by a central cross element	
Outer sheath	PVC compound outer Ø: approx. 6.0 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)

Creator: TOST/PDC Released: HAPF/PDC	Document: DB2170954EN Version: 01	Page 1 of 2
---	--------------------------------------	-------------

We reserve all rights according to DIN ISO 16016.

PD 0019/05_04.18EN

2170954	DATA SHEET	
Valid from: 01.05.2018	ETHERLINE® LAN 350 Cat.6 U/UTP	

Electrical characteristics

DC-Resistance (loop)	max. 172.0 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	100 V (not for power purposes)
velocity of propagation	approx. 0.68 c
Test voltage	core/core: 1000 V

Transmission properties

Transmission properties acc. to IEC 61156-5 for Category Cat.6:

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	1.8	75	90	68	82	20.0	25
4	3.8	3.5	66	80	56	75	23.0	30
10	6.0	5.6	60	75	48	67	25.0	34
16	7.6	7.2	57	70	44	65	25.0	35
31,25	10.7	10.1	53	68	38	60	23.6	35
62,5	15.5	14.4	48	62	32	53	21.5	33
100	19.9	18.4	45	60	28	50	20.1	30
250	33.0	29.1	39	57	20	44	17.3	25
300	-	34.8	-	53	-	41	-	23
350	-	38.5	-	48	-	39	-	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.

Creator: TOST/PDC Released: HAPF/PDC	Document: DB2170954EN Version: 01	Page 2 of 2
---	--------------------------------------	-------------