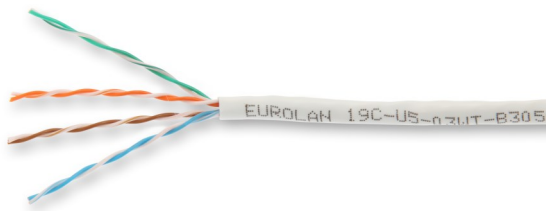


EUROLAN Copper cable

C5e U/UTP



Ordering information

Part number	E-number	Description
19D-U5-23WT-B305	4903273	Eurolan C5e 4 pair U/UTP LSZH Dca 305m/box

Construction

Conductor	Bare copper wire \varnothing 0,49 mm (AWG23)	
Insulation	High Density Polyethylene, \varnothing 0,88 \pm 0,03 mm	
Twisting	2 cores to the pair	
Cable lay up	1x4 pairs to the core, rip-cord	
Sheath outer \varnothing	\varnothing 5,0 \pm 0,4 mm - LSZH (RoHS compliant)	

Mechanical Properties

Bending radius	Without load	$\geq 4 \times OD$
	With load	$\geq 8 \times OD$
Temperature range	Installation temperature	-30°C to +50°C

DoP

Documentno	2018-306
Certification date	2018-03-28
Notified body	Force Technology
Declared performance	Reaction to Fire: Dca-s1,d2,a2

✓ Verified for high-speed applications up to 100 MHz (1Gbit Ethernet)

✓ **Application:**
Primary (campus), Secondary (riser), Tertiary (horizontal)
IEEE 802.3: 10/100/1000/ BaseT IEEE 802.5 16MB; ISDN; FDDI; ATM Power over Ethernet (PoE)/ PoE+

✓ **Standards:**
ISO/IEC 11801; TIA568-C.2

✓ **Fire rating:**
EN 50575:2014 including amendment A1:2016
EN 60332-1-2:2004 incl. Am A1:2015 and A11-2016
EN 50399:2011 incl. Am A1:2016
EN 60754-2:2014
EN 13501-6:2014
Class Dca-s1,d2,a1

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Electrical Properties		
Sheat Physical Properties	Before aging	Tensile Strenght (Mpa) $\geq 10,0$ Elongation (%) ≥ 125
	Aging period ($^{\circ}\text{C}\times\text{hrs}$)	100 $^{\circ}\text{C}\times 24\text{h}\times 7\text{d}$
	After aging	Tensile Strenght (Mpa) $\geq 8,0$ Elongation (%) ≥ 100
	Cold bend	(-20 $\pm 2^{\circ}\text{C}\times 4\text{h}$) 8xCable O.D. no visible cracks
Electrical Characteristics (20 $^{\circ}\text{C}$)	1-100 MHz	Impedance (Ω) 100 ± 15
	1-100 MHz	Delay skew (ns/100m) ≤ 45
	DC resistance ($\Omega/100\text{m}$) max	9,5
	DC conductor Resistance Unbalance (%)	Max 5,0

Electrical Data (nominal) acc. to C5e (at 20 $^{\circ}\text{C}$)							
F	Return loss	Attenuation	NEXT	PHASE	PS-NEXT	ELFEXT	PS-ELFEXT
(MHz)	(dB)	(dB/100m)	(dB)	$\leq \text{ns}$	(dB)	(dB/100m)	(dB/100m)
1,0	20	2,0	65,3	570,00	62,3	63,8	60,8
4,0	23	4,1	56,3	552,00	53,3	51,8	48,8
8,0	24,5	5,8	51,8	546,73	48,8	45,7	42,7
10,0	25	6,5	50,3	545,38	47,3	43,8	40,8
16,0	25	8,2	47,2	543,00	44,4	39,7	36,7
20,0	25	9,3	45,8	542,05	42,8	37,8	34,8
25,0	24,3	10,4	44,3	541,20	41,3	35,8	32,8
31,25	23,6	11,7	42,9	540,44	39,9	33,9	30,9
62,5	21,5	17	38,4	538,55	35,4	27,9	24,9
100,0	20,1	22,0	35,3	537,60	32,3	23,8	20,8