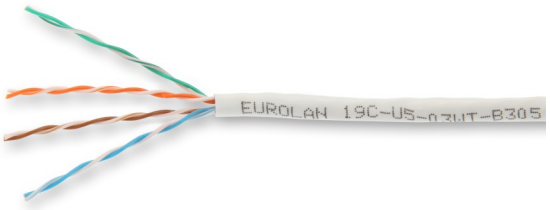
PRODUCT SPECIFICATION

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

Mechanical Properties		
Bending radius	Without load	≥ 4 x OD
	With load	≥ 8 x 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) ≥ 10,0 Elongation (%) ≥ 125
	Aging period (°Cxhrs))	100°Cx24hx7d
	After aging	Tensile Strenght (Mpa) ≥ 8,0 Elongation (%) ≥ 100
	Cold bend	(-20±2°Cx4h) 8xCable O.D. no visible cracks
Electrical Characteristics (20°C)	1-100 MHz	Impedance (Ω) 100±15
	1-100 MHz	Delay skew (ns/100m) ≤45
	DC resistance (Ω/100m) max	9,5
	DC conductor Resistance Unbalance (%)	Max 5,0

Electrical Data (nominal) acc, to C5e (at 20°C)							
F	**Return loss**	**Attenuation**	**NEXT**	**PHASE**	**PS-NEXT**	**ELFEXT**	**PS-ELFEXT**
(MHz)	**(dB)**	**(dB/100m)**	**(dB)**	**≤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