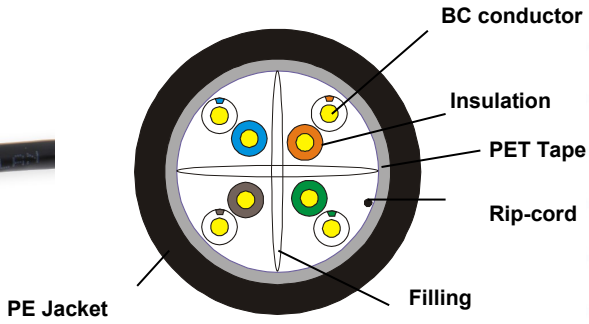
PRODUCT SPECIFICATION

EUROLAN Copper cable

C6 U/UTP Outdoor PE



Ordering information		
Part number	**E-number**	**Description**
19C-U6-07BL-B305	4901993	Eurolan outdoor cable Cat 6 U/UTP 4pairs PE,305m in box
19C-U6-07BL-R500		Eurolan outdoor cable Cat 6 U/UTP 4pairs PE,500m in reel

Construction	
Conductor	Bare copper wire Ø 0,55 mm (AWG23)
Insulation	High Density Polyethylene, Ø 0,98 ± 0,03 mm
Shield	PET Tape
Twisting	2 cores to the pair
Cable lay up	1x4 pairs to the core, non-metallic cross separator (spline), rip-cord
Sheath	Clean, frap, satiation
Sheath outer Ø	Ø 6,3 ± 0,5 mm - LDPE (RoHS compliant) Black

Mechanical Properties		
Bending radius	Without load	≥ 4 x OD
	With load	≥ 8 x OD
Temperature range	Installation temperature	-30°C to +50°C

√ Verified for high-speed applications up to 250 MHz (1Gbit Ethernet)

√ **Application:**
Primary (campus), Secondary (riser), Tertiary (horizontal)
IEEE 802.3:
10/100/1000/10000 BaseT
IEEE 802.5 16MB; ISDN;
FDDI; ATM Power over Ethernet (PoE)/ PoE+

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

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Electrical Properties		
Sheat Physical Properties	Before aging	Tensile Strenght (Mpa) ≥ 10,0 Elongation (%) ≥ 350
	Aging period (°Cxhrs)	100°Cx24hx10d
	After aging	Elongation (%) ≥ 300
	Cold bend	(-20±2°Cx4h) no visible cracks
Electrical Characteristics (20°C)	Characteristic impedance	(Ω) 100±15
	Delay skew 20°C (ns/100m)	≤45
	DC resistance 20°C (Ω/100m) max	9,5
	DC conductor Resistance Unbalance (%)	Max 5,0
Nominal velocity propagation (NVP	69%	

Electrical Data (nominal) acc, to $C6_A$ (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	2,03	74,3	570,00	72,3	68,0	65,0
4,0	23	3,78	65,3	552,00	63,3	56,0	53,0
8.0	24,5	5,32	60,8	546,73	58,7	49,9	46,9
10,0	25	5,95	59,3	545,38	57,3	48,0	45,0
16,0	25	7,55	56,2	543,00	54,2	43,9	40,9
20,0	25	8,47	54,8	542,05	52,8	42,0	39,0
25.0	24,3	9,51	53,3	541,20	51,3	40,0	37,0
31,25	23,6	10,67	52,0	540,44	49,9	38,1	35,1
62,5	21,5	15,38	47,4	538,55	45,4	32,1	29,1
100,0	20,1	19,80	44,3	537,60	42,3	28,0	25,0
200,0	18,0	28,98	39,8	536,54	37,8	22,0	19,0
250,0	17,3	32,85	38,3	536,27	36,3	20,0	17,0