PRODUCT SPECIFICATION

EUROLAN Copper cable

$C6_A$ U/FTP

Ordering information		
Part number	**E-number**	**Description**
19B2-TA-R500WT		Eurolan C6a 4pair U/FTP LSZH White B2ca 500m/reel

Construction	
Conductor	Bare copper wire Ø 0,565 mm (AWG23)
Insulation	Skin-foam-skin PE , 1.330±0.05 mm
Twisting	2 cores to the pair
Cable lay up	1x4 pairs to the core
Overall screen	Al/Mylar Drain wire
Sheath	7.4±0.5 mm - FR-LSZH(complies RoHS)
Fire load	585 MJ/km; 0,163 kWh/m
Weight kg/km	45
Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥9.0 Elongation (%) ≥100 Aging Period (C×hrs) 100C×24h×7d After Aging Tensile Strength (Mpa) ≥8.0 Elongation (%) ≥70 Cold bend (-20±2□×4h) 15times cable O.D. No visible cracks
Electrical Characteristics (20C)	Impedance(Ω) 1.0-250.0MHz 100±15 250.0-500.0MHz 100±22 1.0-500.0MHz Delay Skew (ns/100m) ≤45 Unbalanced-to-ground capacitance(pf/100m)max 330 DC Resistance (Ω/100m) max 9.38 DC Conductor Resistance Unbalance (%) max 5.0
Reaction to fire Classification	B2ca,s1,d1

Mechanical Properties		
Bending radius	Without load	≥ 4 x OD
	With load	≥ 8 x OD
Temperature range	During operation	-20°C to + 70°C
	During installation	0°C to + 50°C

√ Verified for high-speed applications up to 500MHz (10Gbit 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:**
EIA/TIA 568-C.2
ISO/IEC 11801 2nd ed;

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Electrical Data (nominal) acc, to $C6_A$ (at 20°C)						
F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0		74,3	72,3	67,8	64,8	20,0
4,0	3,8	65,3	63,3	55,8	52,8	23,0
10,0	5,9	59,3	57,3	47,8	44,8	25,0
16,0	7,5	56,2	54,2	43,7	40,7	25,0
20,0	8,4	54,8	52,8	41,8	38,8	25,0
31,2	10,5	51,9	49,9	37,9	34,9	23,6
62,5	15,0	47,4	45,4	31,9	28,9	21,5
100,0	19,1	44,3	42,3	27,8	24,8	20,1
200,0	27,6	39,8	37,8	21,8	18,8	18,0
250,0	31,1	38,3	36,3	19,8	16,8	17,3
300,0	34,3	37,1	35,1	18,3	15,3	16,8
400,0	40,1	35,3	33,3	15,8	12,8	15,9
500,0	45,3	33,8	31,8	13,8	10,8	15,2