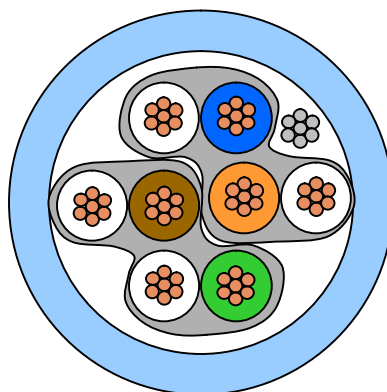




UC500 S27 Cat.6A

U/FTP Patch Cable



Application

Work area and patch cord cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-5-2
ISO/IEC 11801; IEC 61156-6
TIA/EIA-568-B.2

Flame resistance

LSHF: IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	stranded bare copper wire \varnothing 0.42 mm (AWG27)
Insulation	Foam Skin Polyethylene, \varnothing 0.98 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	STP: Al-laminated plastic foil, patented wrapping of two pairs each, stranded drain wire AWG26 tinned
Sheath	LSHF(LSOH)

Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C



UC500 S27 Cat.6A

Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 340 Ω/km
Resistance unbalance		≤ 3%
Insulation resistance	(500 V)	≥ 2000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	(100 ± 15) Ω
	(100 - 250 MHz)	(100 ± 18) Ω
Nominal velocity of propagation		Ca.79 %
Propagation delay		≤ 427 ns/100m
Delay skew		≤ 12 ns/100m
Test voltage		1000 V
Transfer impedance	at 1 MHz	≤ 50 mΩ/m
	at 10 MHz	≤ 100 mΩ/m
	at 30 MHz	≤ 200 mΩ/m
Coupling attenuation		≥ 55 dB

Electrical data (nominal)

acc. to Cat.6 (at 20°C)

F (MHZ)	Attenuation (dB/10m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	0,3	87	84	75	72	23
4,0	0,7	78	75	75	72	23
10,0	1,0	72	69	75	72	23
16,0	1,3	69	66	71	68	23
20,0	1,5	68	65	69	66	23
31,2	1,8	65	62	65	62	23
62,5	2,6	60	57	59	56	23
100,0	3,3	57	54	55	52	23
125,0	3,6	56	53	53	50	21
155,5	4,1	54	51	51	48	21
175,0	4,3	53	50	50	47	21
200,0	4,6	53	50	49	46	21
250,0	5,1	51	48	47	44	20
300,0	5,6	50	47	45	42	20
400,0	6,5	48	45	43	40	18
500,0	7,3	46	43	40	37	18

Technical data

Product code	Cable type	Brand name	Colour	Outer diameter r mm	Fire load		Weight kg/km	Copper content	Tensile force N
					MJ/km	kWh/m			
1019004 1018934	Li-02YS(St)H 4x2x0.42L	UC500 S27 Cat.6A U/FTP 4P LSHF	green grey	5.7	342	0.090	27.5	12	50