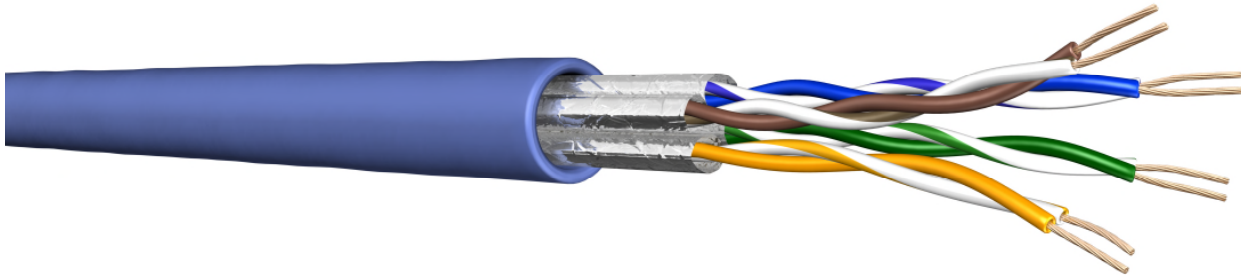


UC500 S27 Cat.6A

U/FTP Patch Cable AWG27/7



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
Mean characteristic impedance	100 MHz	100 ± 5 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.6A (at 20°C)

F (MHZ)	Attenuation (dB/10m)	NEXT (dB)	PS-NEXT (dB)	ACRF (dB/100m)	PS-ACRF (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

Product order data

Product code	Cable type	Brand name	Colour	Outer diameter 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

UC500 S27 Cat.6A

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
UC500 S27 C6A U/FTPp 4P LSHF BK	1023140	60015502	60015502
UC500 S27 C6A U/FTPp 4P LSHF BK 500DW	1023140-00500DW	60015502	60015503
UC500 S27 C6A U/FTPp 4P LSHF BK 500DP	1023140-00500DP	60015502	60015504
UC500 S27 C6A U/FTPp 4P LSHF RD	1023138	60015505	60015505
UC500 S27 C6A U/FTPp 4P LSHF RD 500DW	1023138-00500DW	60015505	60015506
UC500 S27 C6A U/FTPp 4P LSHF GN	1019004	60015507	60015507
UC500 S27 C6A U/FTPp 4P LSHF GN 500DW	1019004-00500DW	60015507	60015508
UC500 S27 C6A U/FTPp 4P LSHF BU	1023139	60015509	60015509
UC500 S27 C6A U/FTPp 4P LSHF BU 500DW	1023139-00500DW	60015509	60015512
UC500 S27 C6A U/FTPp 4P LSHF GY	1018934	60015514	60015514
UC500 S27 C6A U/FTPp 4P LSHF GY 500DP	1018934-00500DP	60015514	60015516
UC500 S27 C6A U/FTPp 4P LSHF GY 1000DW	1018934-01000DW	60015514	60015518
UC500 S27 C6A U/FTPp 4P LSHF VT	1026790	60022009	60022009
UC500 S27 C6A U/FTPp 4P LSHF VT 500DP	1026790-00500DP	60022009	60015522
UC500 S27 C6A U/FTPp 4P LSHF YE	1023137	60015524	60015524
UC500 S27 C6A U/FTPp 4P LSHF YE 500DW	1023137-00500DW	60015524	60015526

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