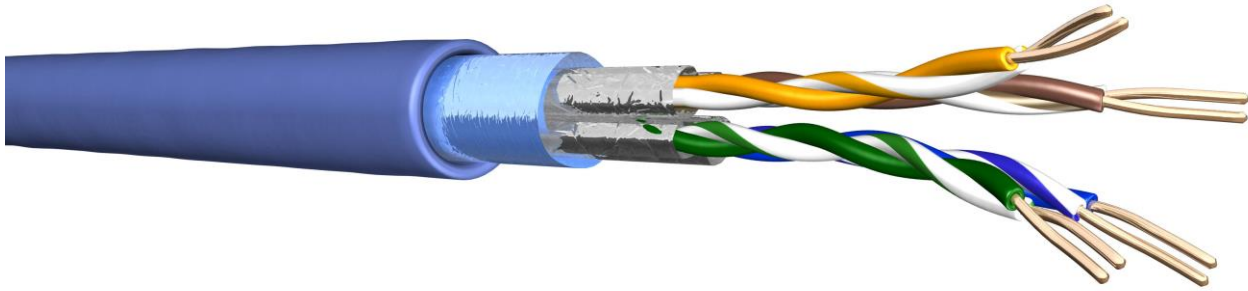


UC500 AS23 Cat.6_A F/FTP B2_{ca} s1a d1 a1

F/FTP AWG23/1 installation cable



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; FDDI; ATM
Power over Ethernet (PoE) / Type 1-4

Standards

EN 50173-1; EN 50288-10-1
ISO/IEC 11801; IEC 61156-5
IEEE 802.3af / at / bt

Flame resistance

EN 50399: Class B2_{ca} s1a d1 a1
LSHF-FR (LSOH-FR): IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034

Construction

Conductor	bare copper AWG23/1
Insulation	Foamskin Polyethylene, Ø 1.35 mm
Stranding	2 cores to the pair
Pair screen	Al-laminated plastic foil, drain wire AWG26 tinned
Cable lay up	4 pairs (PiMF) to the core
Screen	Advanced screen: Al-laminated plastic foil, drain wire AWG26 tinned
Sheath	B2 _{ca} s1a d1 a1, blue RAL 5024

Mechanical properties

Bending radius	without load	4 x D
	with load	8 x D
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

UC500 AS23 Cat.6_A F/FTP B2_{ca} s1a d1 a1

Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 156 Ω/km
Resistance unbalance		≤ 2%
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 ± 5Ω
Nominal velocity of propagation		ca. 79 %
Propagation delay		427 ns/100m
Delay skew		12 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	≤ 20 mΩ / m
	at 10 MHz	≤ 50 mΩ / m
	at 30 MHz	≤ 100 mΩ / m
Coupling attenuation		55 dB
Segregation classification acc. EN 50174-2		„C“

Electrical data (nominal)

acc. to Cat.6_A (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1.0	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
400.0	38.3	87	84	48	45	64	61	23
500.0	44.8	85	82	40	37	61	58	22

UC500 AS23 Cat.6_A F/FTP B2_{ca} s1a d1 a1

Technical data

Product Reference Code	Brand name	Outer diameter Mm	Euro Class	Fire load		Weight kg/km	Copper content	Tensile force N
				MJ/km	kWh/m			
60096426	UC500 AS23 Cat.6 _A F/FTP B2 _{ca} s1a d1a1 500DW	7.5	B2 _{ca} s1a d1 a1	585	0.18	61	24	120
60096427	UC500 AS23 Cat.6 _A F/FTP B2 _{ca} s1a d1a1 1000DW	7.5	B2 _{ca} s1a d1 a1	585	0.18	61	24	120