



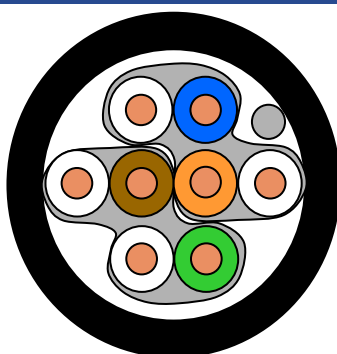
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Prysmian
Group

UC500 S23 Cat.6_A U/FTP OUTDOOR

U/FTP AWG23/1



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) / PoE+
 For installations outdoors in non permanent wet conditions

Standards

EIA/TIA-568-C.2
 ISO/IEC 11801
 IEEE 802.3at
 EN 50173-1
 EN 50288-10
 IEC 61156-5

Construction

Conductor	bare copper wire, Ø 0.56 mm (AWG23/1)
Insulation	Foamskin Polyethylene, Ø 1.35 mm
Twisting	2 cores to the pair
Pair screen	High Performance STP: Al-laminated plastic foil, patented wrapping of two pairs each, drain wire AWG26 tinned
Cable lay up	2x2 pairs to the core
Sheath	PE, black

Mechanical properties

Bending radius	Installation	8 x Outer diameter
	Installed	4 x Outer diameter
Temperature range	During operation	-40°C to + 60°C
	During installation	-15°C to + 50°C



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Electrical properties

at 20°C ± 5°C

Loop resistance		154 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	Nominal	≤ 427 ns/100m
Delay skew	Nominal	≤ 12 ns/100m
Test voltage	(DC, 1 min) core/ core and core/screen	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
Segregation classification acc. EN 50174-2		"C"

Electrical data (nominal)

acc. to Cat.6A (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



ALIOPOLIS

35 RUE D'ILLZACH
68100 MULHOUSE
+33 389 317 347
contact@aliopolis.eu

FICHE TECHNIQUE



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Product order data

Product code	Brand name	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force
			MJ/km	kWh/m			N
	UC500 OUTDOOR Cat.6A U/FTP PE	6.9	**)	**)	55	24	100

Product Code Table

Product Description	PG Reference Code	PG Part Number
UC500 OUTDOOR Cat.6A U/FTP PE	*)	*)
UC500 OUTDOOR Cat.6A U/FTP PE 500DP	*)	*)

*)-Product code will be given in case of purchase order. When ordering pls. refer to data sheet: uc05_s23u-ftp_pe_e

**- On request only.

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