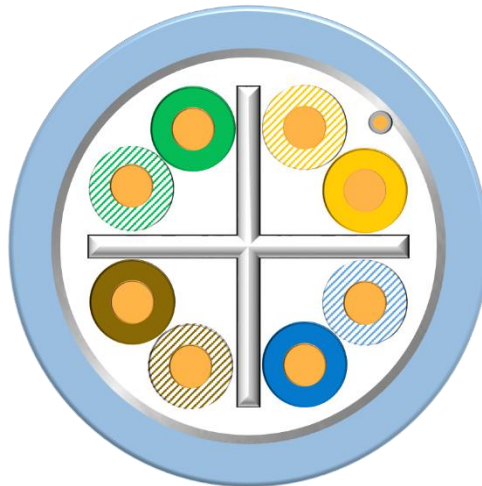


## Draka UC500 Cat. 6a F/UTP 23 AWG

Ethernet cable up to 500 MHz



### Application

Generic cabling systems

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IEEE 802.3 10Base-T; 100Base-T; 1000Base-T; 10GBase-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

IEEE 802.3af (PoE); IEEE 802.3at (PoE+)

### Standards

ANSI EIA/TIA 568-C.2; ISO/IEC 11801 2<sup>nd</sup> Ed.; IEC 61156 2<sup>nd</sup> Ed.; EN 50173-1; EN 50288

### Construction

Conductor	Solid copper wire Nom. $\geq \varnothing 0.555$ mm (23AWG)
Insulation	Three pairs PE and one pair foam PE, Nom. $\varnothing 1.1$ mm
Twisting	2 cores to the pair
Cable Lay Up	4 x pairs to the core non-metallic cross separator
Pair Screen	-
Overall Screen	Aluminium Laminated Foil with Tinned copper drain wire (0.4 mm)
Sheath / Colour	LSZH alt LSFRZH (BLUE RAL5024)
Outer Diameter	Nom. $\varnothing 7.2$ mm
Approximate Weight	Nom. 55 kg/km

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### Mechanical properties

Bend radius	With Load	$\geq 8 \times \text{O.D}$
	No Load	$\geq 4 \times \text{O.D}$
Temperature range	During operation	-20°C to +60°C
	During installation	0°C to +50°C
Maximum Pulling Force	During installation	100 N

### Electrical properties

Characteristic Impedance	1-100 MHz	$100 \pm 15 \Omega$
	100-250 MHz	$100 \pm 22 \Omega$
	250-500 MHz	$100 \pm 25 \Omega$
DC Loop Resistance		$\leq 187.6 \Omega/\text{km}$
DC Resistance Unbalance		$\leq 4\%$
Mutual Capacitance (@1 kHz)		$\leq 5.6 \text{ nF}/100\text{m}$
Capacitance Unbalance	Pair to ground	$\leq 330 \text{ pF}/100\text{m}$
Velocity of Propagation		Nom. 68%
Propagation Delay (@500 MHz)		$\leq 536 \text{ ns}/100\text{m}$
Delay Skew		$\leq 45 \text{ ns}/100\text{m}$

Freq. (MHz)	Max. Attenuation (dB)	Min. NEXT (dB)	Min. PS-NEXT (dB)	Min. ACR-F (dB)	Min. PS-ACRF (dB)	Min. Return Loss (dB)
1.0	2.1	74.3	72.3	67.8	64.8	20.0
4.0	3.8	65.3	63.3	55.8	52.8	23.0
16.0	7.5	56.2	54.2	43.7	40.7	25.0
100.0	19.1	44.3	42.3	27.8	24.8	20.1
250.0	31.1	38.3	36.3	19.8	16.8	17.3
500.0	45.3	33.8	31.8	13.8	10.8	15.2

Note1: All tests include 401 points swept frequency measurements

Note2: All electrical characteristics are given at 20°C

Note3: All above stated values are nominal and subject to changes

Note4: Transmission performance based on 100 m (328 ft)

### Fire Rating

PVC	IEC 60332-1
LSZH	IEC 60332-1; IEC 60754-1 & -2; IEC 61034
LSFRZH	IEC 60332-1; IEC 60332-3-24; IEC 60754-1 & -2; IEC 61034

## Draka UC500 Cat. 6a F/UTP 23 AWG

### Ordering Information

SAP 1C	UC P/N	Product Description	P.U
TBA	83075	UC 500 Cat 6a F/UTP 23 AWG, Overall foil, LSZH, IEC 60332-1	500m/reel
TBA	83048	UC 500 Cat 6a F/UTP 23 AWG, Overall foil, LSFRZH, IEC 60332-3-24	500m/reel

#### Marking:

Marked in 1 meter intervals as follows:

**DRAKA UC500 F/UTP <SHEATH> CAT 6a CABLE P/N <PART NUMBER> VERIFIED TO EN 50288 ISO/IEC 11801  
ANSI/TIA-568-C.2 <FC> <BATCHCODE> <XXX>M**

<SHEATH>: LSZH/LSFRZH

<PART NUMBER>: Cable part number

<FC>: Draka defined factory Code

<BATCHCODE>: Factory defined tracking code MM/YYYY or WW/YYYY

<XXX>: Increasing length marking by 1 metre

### Logistic

#### Packing:

Wooden drum.

#### Delivery Lengths:

500m per drum.

### Packaging Info

Drum design: Refer to MMS Category Drum

Label design: Refer to UC Category Cable Label

## Draka UC500 Cat. 6a F/UTP 23 AWG

### Enquiries

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Please contact our local sales office or [mms.asia@prysmiangroup.com](mailto:mms.asia@prysmiangroup.com)

Multimedia Solutions is the data communication portfolio of Prysmian Group and comprises all the necessary portfolio of cable solutions for data communication.

Ask about UC CONNECT for a complete Structure Cabling Solutions with 25 Years System Warranty.

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