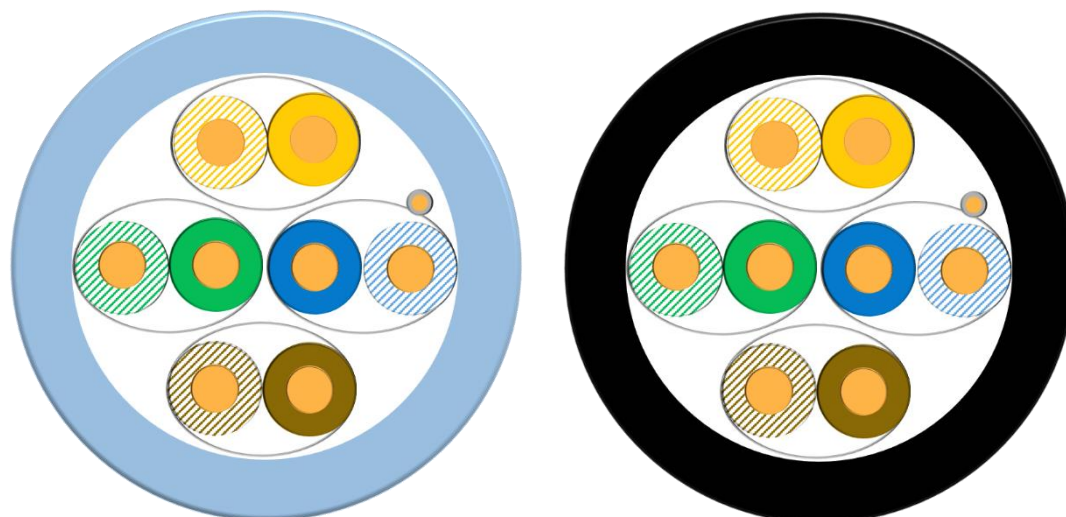


Draka UC500 Cat. 6a U/FTP 23 AWG

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 2nd Ed.; IEC 61156 2nd Ed.; EN 50173-1; EN 50288

Construction

Conductor	Solid copper wire Nom. $\geq \varnothing$ 0.545 mm (23AWG)
Insulation	Foam PE, Nom. $\varnothing$ 1.32 mm
Twisting	2 cores to the pair
Pair Screen	High Performance Individual Pair Screen with Tinned copper drain wire (0.4 mm)
Cable Lay Up	4 x pairs to the core
Sheath / Colour	LSZH & LSFRZH (BLUE RAL5024); PE (BLACK)
Outer Diameter	Nom. $\varnothing$ 7.4 mm (LSZH & PE) & Nom. $\varnothing$ 7.9 mm (LSFRZH)
Approximate Weight	Nom. 50 kg/km (LSZH) & Nom. 47 kg/km (PE) & Nom. 70 kg/km (LSFRZH)

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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 Resistance		$\leq 93.8 \Omega/\text{km}$
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. 75%
Propagation Delay (@500 MHz)		$\leq 536.0 \text{ ns}/100\text{m}$
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

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

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Ordering Information

SAP 1C	UC P/N	Product Description	P.U
TBA	86075	UC 500 Cat 6a U/FTP 23 AWG, Individual pair foil, LSZH, IEC 60332-1	500m/reel
TBA	86034	UC 500 Cat 6a U/FTP 23 AWG, Individual pair foil, PE	500m/reel
TBA	86048	UC 500 Cat 6a U/FTP 23 AWG, Individual pair foil, LSFRZH, IEC 60332-3-24	500m/reel

Marking:

Marked in 1 meter intervals as follows:

**DRAKA UC500 U/FTP <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/PE

<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

Enquiries

Please contact our local sales office or 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.

Visit www.DrakaUC.com for more information.

Draka UC500 Cat. 6a U/FTP 23 AWG

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