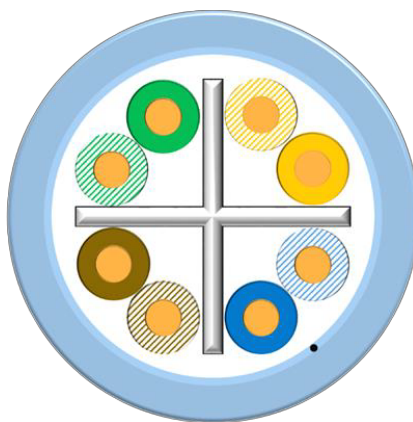


Draka UC500 Cat.6a U/UTP 23AWG LSFRZH-3A



(Only for reference)

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+); IEEE 802.3bt (PoE++)

Standards

ANSI/TIA 568.2-D

ISO/IEC 11801-1/2

IEC 61156-5

EN 50173-1

EN 50288-11-1

Construction

Conductor	Solid copper wire Nom. $\geq \varnothing$ 0.56 mm (23AWG)
Insulation	Foam PE (3 pairs PE and 1 pair Foam PE), Nom. \varnothing 1.15 mm
Twisting	2 cores to the pair
Cable Lay Up	4 x pairs to the core non-metallic cross separator
Overall Screen	PE Mylar and Single PET AL-Foil (without Drain wire)
Sheath / Colour	LSFRZH-3A (BLUE). (Ripcord Underneath)
Outer Diameter	Nom. \varnothing 7.3 mm
Approximate Weight	Nom. 56 kg/km

Mechanical properties

Bend radius	With Load	$\geq 8 \times O. D$
	No Load	$\geq 4 \times O. D$
Temperature range	During operation	-20°C to +60°C
	During installation	0°C to +50°C
Maximum Pulling Force	During installation	110 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		$\leq 9.38 \Omega/100m$
DC Loop Resistance		$\leq 187.6 \Omega/km$
DC Resistance Unbalance		$\leq 4\%$
Mutual Capacitance (@1 kHz)		$\leq 5.6 nF/100m$
Capacitance Unbalance	Pair to ground	$\leq 330 pF/100m$
Velocity of Propagation		Nom. 68%
Propagation Delay (@250 MHz)		$\leq 536.0 ns/100m$
Delay Skew		$\leq 45 ns/100m$

Freq. (MHz)	Attenuation (dB)	NEXT Far (dB)	PS-NEXT Far (dB)	ACR-F (dB)	PS-ACRF (dB)	Return Loss Far (dB)
1.0	1.77	107.16	96.09	80.16	78.45	34.42
4.0	3.51	99.36	90.00	73.27	71.56	49.21
16.0	7.09	91.15	84.86	68.76	63.21	58.24
31.25	9.95	87.82	74.98	65.20	62.19	46.13
62.5	14.16	71.87	65.20	60.01	55.43	42.08
100.0	18.00	70.58	65.75	58.56	54.78	64.39
250.0	28.82	62.00	56.05	55.43	52.18	48.76
300.0	31.74	62.55	50.84	52.21	50.80	50.06
400.0	36.90	60.75	50.18	51.01	48.65	30.77
500.0	41.48	60.85	56.89	50.34	45.32	35.23

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)

Note5: All parameters are typical values

Fire Rating

LSFRZH-3A

IEC 60332-1; IEC60332-3-22; IEC 60754-1&2; IEC 61034-2

Ordering Information

UC Part Number	SAP1C	Description	Packaging
80045BL-5H	TBC	DRAKA UCDATA CATEGORY CABLE UC500 CAT.6A UUTP 4 PAIR 23AWG LSFRZH-3A BLUE IEC 60332-1, IEC60332-3-22, IEC 60754-1&2, IEC 61034	500m/reel

Marking:

Marked in 1-meter intervals as follows:

DRAKA UC500 U/UTP LSFRZH-3A CAT 6a CABLE P/N <UC PART NUMBER> VERIFIED TO EN 50288 ISO/IEC 11801 ANSI/TIA-568 <FC> <BATCHCODE> <XXX>M

<UC 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

Marking size: 3.0±0.5 mm, Marking color: White on black sheath, black on other color sheath

Logistic

Packing:

Wooden Drum.

Delivery Lengths:

500m per drum.

Enquiries

Please contact our local sales office or email to: 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 Structured Cabling Solutions with 25 Years System Warranty.

Visit www.drakauc.com for more information.

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