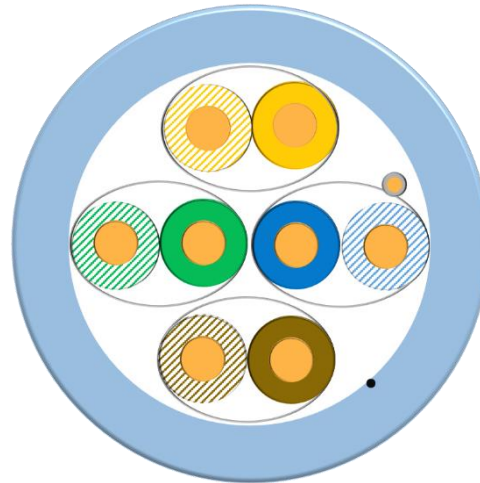


Draka UC500 Cat. 6a U/FTP 23 AWG LSZH & LSFRZH

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 568-2.D: 2018;
 ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017;
 IEC 61156-5: 2012;
 EN 50173-1: 2011 / EN 50173-2: 2007 including amendment A1: 2010;
 EN 50288-10-1: 2012

Construction

Conductor	Solid copper wire Nom. $\geq \varnothing 0.546$ mm (23AWG)
Insulation	Foam PE, Nom. $\varnothing 1.25$ mm
Twisting	2 cores to the pair
Pair Screen	High performance individual pair screen with tinned copper drain wire (0.4mm)
Cable Lay Up	4 x pairs to the core
Sheath / Color	LSZH & LSFRZH (BLUE RAL5024 & GREEN RAL6018)
Outer Diameter	Nom. $\varnothing 7.5$ mm (LSZH) & Nom. $\varnothing 7.9$ mm (LSFRZH)
Approximate Weight	Nom. 50.0 kg/km (LSZH) & Nom. 70.0 kg/km (LSFRZH)

Mechanical properties

Bend radius	With Load	≥ 8 x O.D [60mm (LSZH) & 63.2mm (LSFRZH)]
	No Load	≥ 4 x O.D [30mm (LSZH) & 31.6mm (LSFRZH)]
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

Mean Characteristic Impedance	1-100 MHz	100 ± 15 Ω
	100-250 MHz	100 ± 22 Ω
	250-500 MHz	100 ± 25 Ω
DC Loop Resistance		≤ 187.6 Ω/km
DC Resistance Unbalance		≤ 4%
Mutual Capacitance (@1 kHz)		≤ 5.6 nF/100m
Capacitance unbalance	Pair to ground	≤ 330 pF/100m
Velocity of Propagation		Nom. 75%
Propagation Delay (@500 MHz)		≤ 536.0 ns/100m
Delay Skew		≤ 45 ns/100m

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
31.25	10.5	51.9	49.9	37.9	34.9	23.6
62.5	15.0	47.4	45.4	31.9	28.9	21.5
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
300.0	34.3	37.1	35.1	18.3	15.3	16.8
400.0	40.1	35.3	33.3	15.8	12.8	15.9
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 60332-1-1: 2015; IEC 60332-1-2: 2015; IEC 60754-1: 2011; IEC 60754-2: 2011; IEC 61034-2: 2013
LSFRZH	IEC 60332-1-1: 2015; IEC 60332-1-2: 2015; IEC 60332-3-24: 2018; IEC 60754-1: 2011; IEC 60754-2: 2011; IEC 61034-2: 2013

Ordering Information

SAP 1C	UC P/N	Product Description	P.U
60067328	86075	UC 500 Cat 6a U/FTP 23 AWG LSZH, Blue, IEC 60332-1	500m/reel
60067244	86075GN	UC 500 Cat 6a U/FTP 23 AWG LSZH, Green, IEC 60332-1	500m/reel
60067195	86075GN	UC 500 Cat 6a U/FTP 23 AWG LSZH, Green, IEC 60332-1	1000m/reel
60067136	86048	UC 500 Cat 6a U/FTP 23 AWG LSFRZH, Green, 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

<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 (Meter marking is 1-500m or 1-1000m with larger number in the outside layer of the drum)

Logistic

Packing:

Wooden drum.

Delivery Lengths:

500m per drum or 1000m per drum.

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.

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