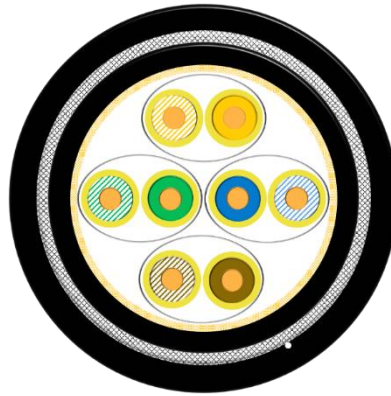


Draka UC500 Cat.6a S/FTP 23AWG GSWB LSFRZH AR_AT_UV

Fire Resistant



(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+)

Standards

ANSI/TIA 568.2-D

ISO/IEC 11801-1/2

IEC 61156-5

EN 50173-1

EN 50288-5-1

Construction

Conductor	Solid copper wire Nom. $\geq \varnothing 0.57$ mm (23AWG)
Insulation	Foam PE with special fire barrier tape
Twisting	2 cores to the pair
Pair Screen	High Performance Individual Pair Screen
Cable Lay Up	4 x pairs to the core
Overall Screen	50% Tinned copper wire braid
Inner Sheath	LSZH (BLACK). AR-AT-UV
Inner Diameter	Nom. $\varnothing 8.7 \pm 0.3$ mm
Armoring	90% Galvanized steel wire braiding
Sheath / Colour	LSFRZH (BLACK). AR-AT-UV Ripcord underneath
Outer Diameter	Nom. $\varnothing 12.0 \pm 1.0$ mm
Approximate Weight	Nom. 193 kg/km

Mechanical properties

Bend radius	With Load	$\geq 16 \times O. D$
	No Load	$\geq 8 \times O. D$
Temperature range	During operation	-15°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. 76%
Propagation Delay (@250 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

LSFRZH IEC60331-23; IEC 60332-1; IEC60332-3-24; IEC 60754-1&2; IEC 61034-2

Ordering Information

UC Part Number	SAP1C	Description	Packaging
85048FRBRTVBK-3H	60093991	DRAKA UCDATA CATEGORY CABLE UC500 CAT.6A SFTP 4 PAIR 23AWG GALVANIZED STEEL WIRE BRAID ARMORING LSFRZH FR ATARUV BLACK IEC60331-23, IEC 60332-3-24, IEC 60754-1&2, IEC 61034	305m/reel

Marking:

Marked in 1-meter intervals as follows:

DRAKA UC500 S/FTP GSWB LSFRZH FIRE RESISTANT AR-AT-UV 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:

305m 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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