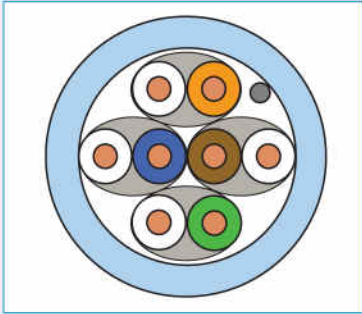


# UC500 23 Cat.6A U/FTP

Standard, Solid, LSZH



## Application

Primary (Campus)

Secondary (Riser)

Tertiary (Horizontal)

IEEE 802.3: 10Base-T; 100Base-T;

1000Base-T;

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

## Standards

EIA/TIA 568C;

ISO/IEC 11801 2<sup>nd</sup> ed.; IEC 61156-5

EN 50173; EN 50288-3-1

## Flame resistance

LSZH IEC 60332-1; IEC 60754;

IEC 61034

## Construction

Conductor	Bare copper wire, $\emptyset$ 0.56 mm (AWG23/1)
Insulation	Foam PE, Nom. $\emptyset$ 1.32 mm
Sheath	LSZH
Sheath colour	BLUE
Pair Screen	High Performance Individual Pair Screen
Outer Diameter	Nom. 7.47 mm
Weight	Nom. 58.8 kg /km

## Mechanical properties

Minimum bending radius Installation	8 x Diameter
Minimum bending radius Installed	8 x Diameter
Temperature range during operation	-10°C up to +60°C
Temperature range during installation	-10°C up to +60°C

## Electrical properties at 20°C

DC loop resistance	$\leq 176 \Omega/\text{km}$
Resistance unbalance	$\leq 2\%$
Insulation resistance (500 V)	$\geq 2000 \text{ M}\Omega \cdot \text{km}$
Mutual Capacitance at 800 Hz	Nom. 43 nF/km
Capacitance unbalance (pair to ground)	$\leq 1500 \text{ pF}/\text{km}$
Mean Characteristic impedance 100 MHz	$(100 \pm 5) \Omega$
Nominal velocity of propagation	Nom. 79 %
Propagation delay	Nom. 450 ns/100m
Delay skew	Nom. 15 ns/100m
Test voltage (DC, 1 min) core/core and core/screen	Nom. 1000 V
Transfer impedance	At 1 MHz; $\leq 50 \text{ m}\Omega / \text{m}$
	At 10 MHz; $\leq 100 \text{ m}\Omega / \text{m}$
	At 30 MHz; $\leq 200 \text{ m}\Omega / \text{m}$
Coupling Attenuation	$\geq 55 \text{ dB}$

- All above stated values are nominal and subject to changes.
- For more details on electrical properties please request for datasheet.

## Ordering Information

SAP IC	UC P/N	Product Description	P.U
TBA	83075	UC 500 Cat 6a U/FTP 23 AWG, Individual pair foil, LSZH	500m/reel
TBA	83048	UC 500 Cat 6a U/FTP 23 AWG, Individual pair foil, LSFRZH	500m/reel