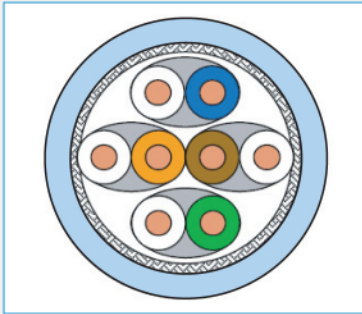


# UC500 23 Cat.6A S/FTP

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 568-C;

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

LSFRZH IEC 60332-3-24

## Construction

<b>Conductor</b>	Bare copper wire $\varnothing$ 0.56 mm (AWG23/1)
<b>Insulation</b>	Foam PE , Nom. $\varnothing$ 1.34 mm
<b>Sheath</b>	LSZH
<b>Sheath colour</b>	BLUE
<b>Pair Screen</b>	High Performance Individual Pair Screen
<b>Overall Screen</b>	Copper Braid tinned ; drain wire AWG26 tinned
<b>Outer Diameter</b>	Nom. 8.05 mm
<b>Weight</b>	Nom. 68.84 kg / km

## Mechanical properties

<b>Minimum bending radius without load</b>	8 x Diameter
<b>Minimum bending radius with load</b>	8 x Diameter
<b>Temperature range during operation</b>	-10°C up to +60°C
<b>Temperature range during installation</b>	-10°C up to +60°C

## Electrical properties at 20°C

<b>DC loop resistance</b>	$\leq$ 176 $\Omega$ /km
<b>Resistance unbalance</b>	$\leq$ 2%
<b>Insulation resistance (500 V)</b>	$\geq$ 2000 M $\Omega$ *km
<b>Mutual Capacitance at 800 Hz</b>	Nom. 43 nF/km
<b>Capacitance unbalance (pair to ground)</b>	$\leq$ 1500 pF/km
<b>Mean Characteristic impedance 100 MHz</b>	(100 $\pm$ 5) $\Omega$
<b>Nominal velocity of propagation</b>	Nom. 79 %
<b>Propagation delay</b>	Nom. 427 ns/100m
<b>Delay skew</b>	Nom. 12 ns/100m
<b>Test voltage (DC, 1 min) core/core and core/screen</b>	Nom. 1000 V
<b>Transfer impedance</b>	At 1 MHz; $\leq$ 20m $\Omega$ / m
	At 10 MHz; $\leq$ 50m $\Omega$ / m
	At 30 MHz; $\leq$ 100m $\Omega$ / m
<b>Coupling Attenuation</b>	$\geq$ 55dB

- 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	85075	UC 500 Cat 6a S/FTP 23 AWG, Individual pair foil, 40% braid, LSZH	500m/reel
TBA	85048	UC 500 Cat 6a S/FTP 23 AWG, Individual pair foil, 40% braid, LSFRZH	500m/reel