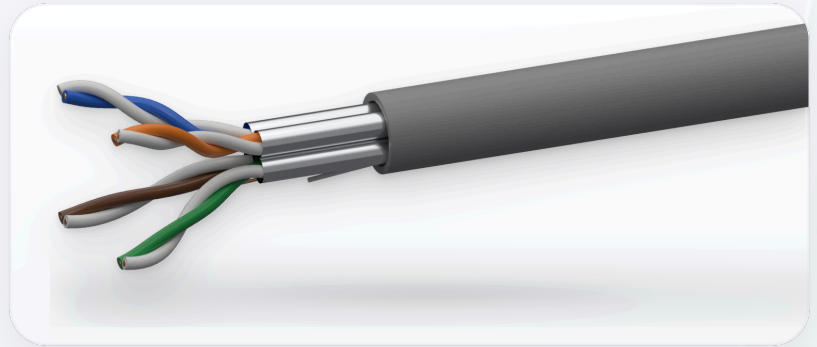


CABLES / LAN CABLES / CAT 6A

CAT 6A U/FTP CABLE

INDIVIDUALLY FOIL-SCREENED PAIRS



BRIEF

Individually foil-screened pairs, foam-skin insulation, 500 MHz.

JACKET / SHEATH

PVC - Grey

CABLE APPLICATION

- Structured Cable for Campus, Riser & Horizontal Installation, in conditions of heightened electromagnetic impacts.
- Operated on frequencies up to 500 MHz.
- Compatible with all Known Connection systems according to EN 50173.
- Typical applications include PBX, V.11, X.21, ISDN, Ethernet (10Base-T), ATM-25/52/155 Mbit/s, 100VG- AnyLAN, Fast Ethernet (100BASE-TX), Token Ring 16/100 Mbit/s, Firewire 100 Mbit/s, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T, HDBaseT, PoE, PoE+, PoE++

CABLE CONSTRUCTION

1	Solid Bare Copper
2	Skin-Foam-Skin HDPE
3	AL/PET foil, metal outside
4	PVC

CONSTRUCTION & DIMENSIONS

#	CABLE ELEMENT	CONSTRUCTION AND DIMENSIONS
01	Conductor	Solid Bare Copper
02	Insulator material	Skin-Foam-Skin HDPE
03	Individual Pair Shielding	AL/PET foil, metal outside
04	Sheath Material	PVC
05	Sheath Colour	Grey (PVC) Other Colors can be arranged upon request
06	Number of Twisted Pairs	4
07	Conductor Size	23 AWG
08	Drain Wire Size	26 AWG
09	Outside Diameter of Sheath	7.0 mm

CABLE PROPERTIES

PROPERTY	VALUE
Min. Installation Bend Radius	8 x D
Min. Installed Bend Radius	4 x D
Maximum Installation Tension	110 N
Installation Operating Temp. Range	0 to 50 °C
(Installed) Operating Temp. Range	-20 ° to 60 °C

APPLICABLE STANDARDS

CABLE & CABLING STANDARDS

ISO/IEC 11801-1, EN 50173-1, EN 50288-6-1, ANSI/TIA/EIA-568.2- D and IEC 61156-5

FIRE PROPAGATION TEST

IEC60332.1; EN50265-2-1 Class B

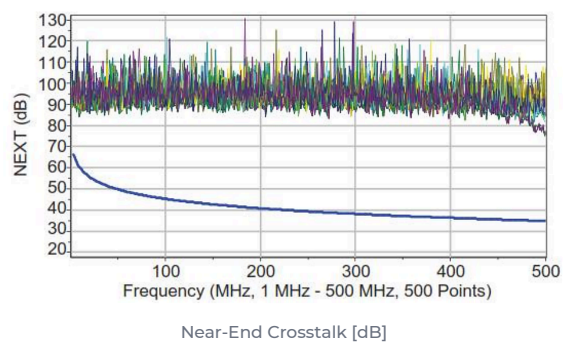
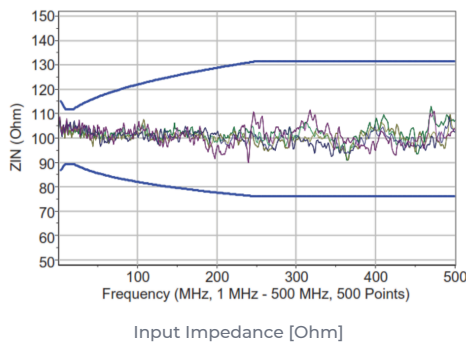
PACKING

- Cable shall be supplied on Plywood Drums.
- Length per Drum: 500m

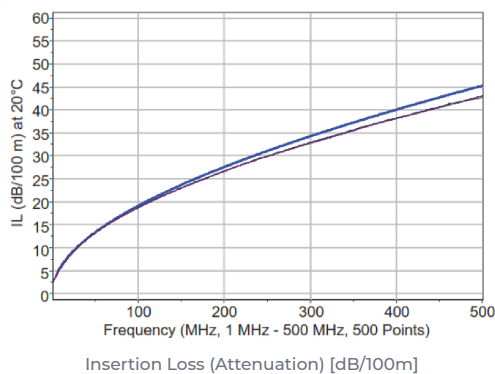
ELECTRICAL CHARACTERISTICS @ 20 °C

PROPERTY	VALUE	UNIT OF MEASURE
Characteristic Impedance @ 100MHz	100 ± 5	Ω
DC Conductor Resistance	75	Ω/km
Insulation Resistance	≥ 5	GΩ/km
Max. Resistance Unbalance	≤ 2 %	%
Max Capacitance	42	pF/m
Capacitance Unbalance	1600	pF/km
Nominal Velocity of Propagation	80 %	%
Propagation Delay	430	ns/100m

MEASURED TRANSMISSION PERFORMANCE



INSERTION LOSS (ATTENUATION)



ENGINEERED AND TESTED TO CATEGORY 6A PERFORMANCE, DRUM BY DRUM.

Every U/FTP construction is verified against ISO/IEC 11801-1 and ANSI/TIA/EIA-568.2-D limits across the full 500 MHz band before it leaves Elsewedy Telecom Cables.

ORDERING INFORMATION

PRODUCT REFERENCE	DESCRIPTION
SW121 32123	CAT 6A U/FTP cable, PVC · Grey