

UNSHIELDED TWISTED PAIR

CAT 6 U/UTP cable

Four-pair unshielded Category 6 horizontal and riser cable, solid bare copper, 250 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 250 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, 1000BASE-T, PoE, PoE+, PoE++

— CONSTRUCTION & DIMENSIONS

#	CABLE ELEMENT	CONSTRUCTION AND DIMENSIONS
01	Conductor	Solid Bare Copper
02	Insulator material	HDPE
03	Sheath Material	PVC
04	Sheath Colour	Grey (PVC) Other Colors can be arranged upon request
05	Number of Twisted Pairs	4
06	Conductor Size	23 AWG
07	Outside Diameter of Sheath	6 mm



— CABLE CONSTRUCTION

- 1 Solid Bare Copper
- 2 HDPE
- 3 PVC

— CABLE PROPERTIES

PROPERTY	VALUE
Min. Installation Bend Radius	8 x D
Min. Installed Bend Radius	4 x D
Maximum Installation Tension	100 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; EN50265-2-1Class B

— PACKING

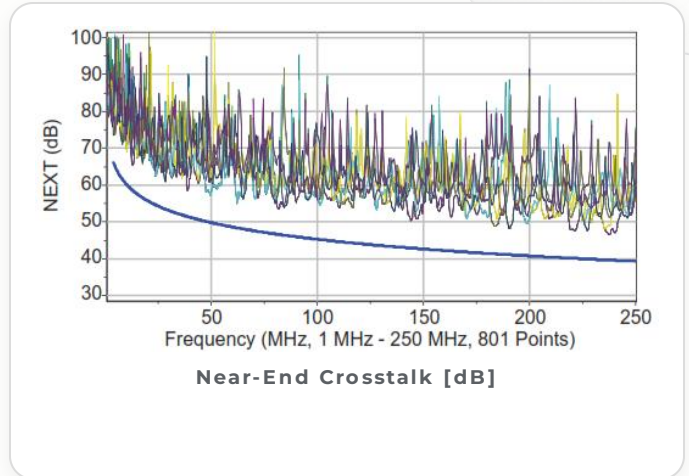
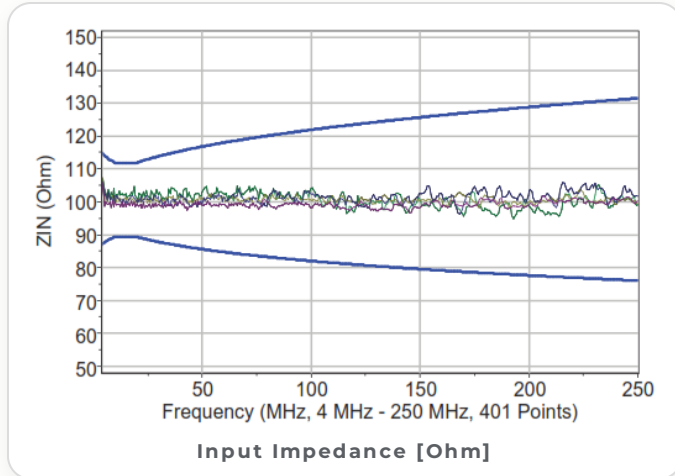
Cable shall be supplied on Plywood Drums.

Length per Drum: **305m**

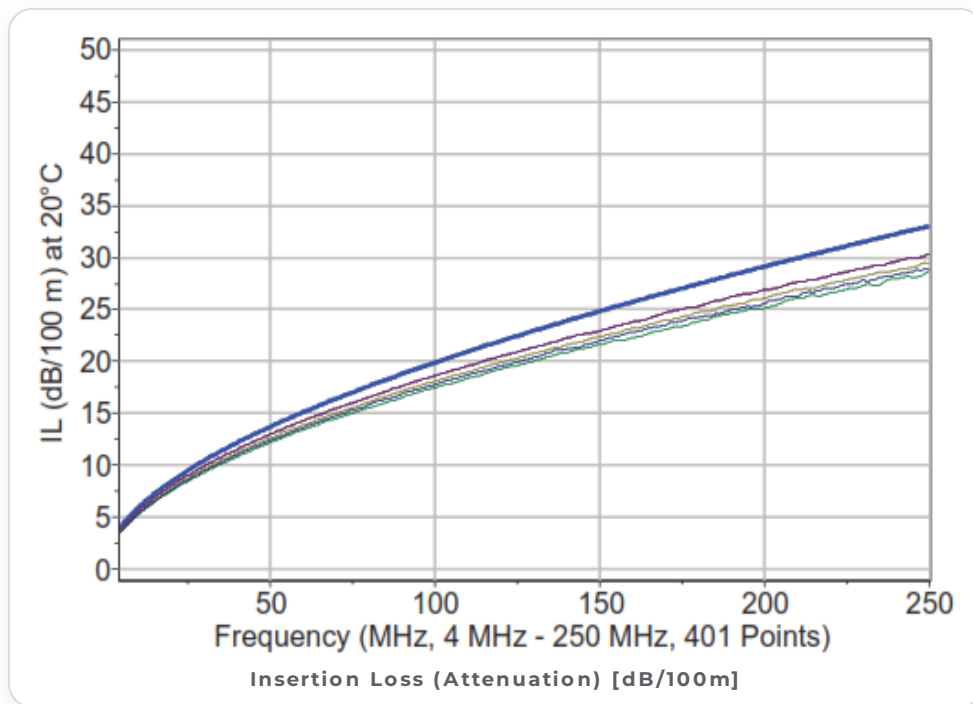
— ELECTRICAL CHARACTERISTICS @ 20 °C

PROPERTY	VALUE	UNIT OF MEASURE
Characteristic Impedance @ 100MHz	100 ± 5	Ω
DC Conductor Resistance	85	Ω/km
Insulation Resistance	≥ 5	GΩ/km
Max. Resistance Unbalance	≤ 2 %	%
Max Capacitance	50	pF/m
Capacitance Unbalance	1600	pF/km
Nominal Velocity of Propagation	68 %	%
Propagation Delay	537	ns/100m

— MEASURED TRANSMISSION PERFORMANCE



— INSERTION LOSS (ATTENUATION)



Engineered and tested to Category 6 performance, drum by drum.

Every U/UTP construction is verified against ISO/IEC 11801-1 and ANSI/TIA/EIA-568.2-D limits across the full 250 MHz band before it leaves Elsewedy Telecom Cables.