

CAT 6 U/UTP

UNSHIELDED TWISTED PAIR

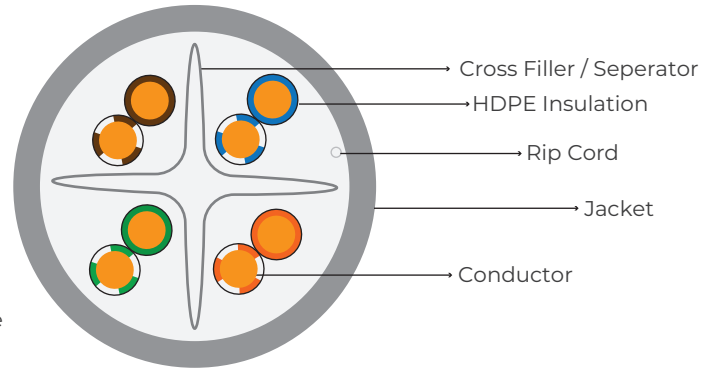
Product Description

CAT 6 U/UTP, 4 Pair, 24 AWG (Solid) Bare Copper, HDPE Insulation
Jacket: Indoor - PVC/LSZH, Outdoor - PE

Technical Specifications

Product Overview

Suitable Applications: Profinet, EtherCAT, EtherNet/IP, Hi-Speed data protocols delivering above 1 Gbps performance to the workstation.



Construction Details

Conductor

Element	Size	Stranding	Material	No. of Pairs	No. of Elements
Pair(s)	24 AWG	Solid	Bare Copper	4	8

Insulation

Material	Color Code
HDPE	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Cross Filler / Separator	Yes
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Outer Jacket

Material	Rip Cord
Indoor: PVC / LSZH	Yes
Outdoor: PE	-

Electrical Characteristics

Electricals

Max. Conductor DC Resistance	Insulation Resistance	Dielectric Strength	Characteristics Impedance
@ 20°C: 9.5 Ohm/100m	5000 Mohm/km @ 500V D.C.	1.0 kV DC for 1 Minute	100 ± 15 Ohm

Resistance Unbalance (With in a pairs)	Resistance Unbalance (Between pairs)	Capacitance Unbalance (Pair to Ground)
2% Max	5% Max	1600 pF/km @ 1000Hz

Delay

Frequency	Delay Skew	Nom. Velocity of Propagation Range	Fluke Test
250 MHz	45 ns/100m	67% to 70%	100 MTR

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Mechanical Characteristics

Temperature

Operating	Installation	Storage
- 20°C to +70°C	0°C to +50°C	- 20°C to +80°C

Standards and Compliance

Flammability Test	IEC 60332-1 (Applicable for LSZH sheathed cable)
Data Category	Category 6
TIA/EIA Compliance	ANSI/TIA- 568.2-D
ISO/IEC Compliance	ISO/IEC 11801-1
IEC Compliance	IEC - 61156-5
BS EN Compliance	BS EN 50173
Wire Mapping Standard	568 A/568 B

Packing

Packing type	Length
Drum	305 MTR
MessCoil	305 MTR
Meter Marking	Reverse

Patch Cord

RJ 45	CAT 6
Packing Length	1, 3, 5 MTR



Standard Outer Sheath Colour

Indoor - PVC	Grey
Indoor - LSZH	Blue
Outdoor - PE	Black

Note:

The outer sheath colour will be customized to meet the customer's preferences. Packing is also available in 100 MTR & 500 MTR.