

Overview

Each Cat6 UTP cable is performance optimized with 4 balanced twisted pairs on 23 AWG insulated solid bare copper conductors. Each pair is separated by a center spline. OD Cat6 UTP cables are constructed to create a round and flexible cable for easy pulling and stripping of the PVC jacket.

Applications

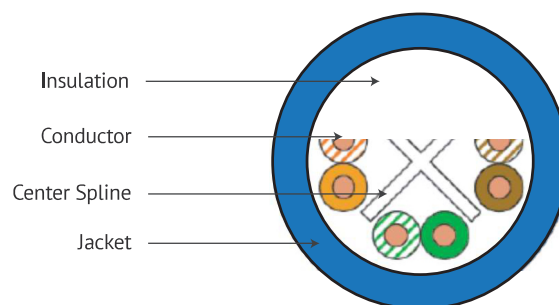
- Horizontal Wiring in LAN
- IEEE 802.3: 10/100/1000 Base-T
- IEEE 802.5 16MB
- Power Over Ethernet PoE/PoE+
- IEEE 802.3af and IEEE 802.3at

Standards

- ANSI / TIA 568-C.2
- ISO / IEC 11801 2nd Ed
- IEC 61156-5 2nd Ed
- EN 50173; EN 50288-3-1:2013

Physical Characteristics

Conductor	Solid Bare Copper
AWG	23
Conductor Diameter	0.56 (± 0.0005mm)
Insulation	PVC, LSZH
Insulation Diameter	Ø0.98mm
Jacket	PVC, LSZH
Jacket Cover	PVC, LSZH: Blue
Outer Diameter	6.3 (± 0.3mm)
Weight	40kg /km



Mechanical Characteristics

Minimum Bending Radius	4 x Diameter
Maximum Bending Radius	4 x Diameter
Temperature During Operation	-20°C ~ +60°C
Temperature During Installation	0°C ~ +50°C

Electrical Characteristics

Characteristic impedance (1-130 MHz)	(100 ± 15) Ω
Mean Characteristic impedance 100 Mhz	(100 ± 5) Ω
DC-loop resistance	Nom. 150 Ω /km
Resistance unbalance	≤ 2 %
Propagation Delay	≤ 800 ns /km
Skew, maximum at 100MHz	≤ 400 ns /km
Mutual capacitance	Nom. 50 pF /km
Capacitance unbalance, maximum	≤ 1600 pF /km
Nominal velocity of propagation (NVP)	≤ 1600 pF /km
Attenuation @ 250Mhz	Mon. 69%

Available Options

OD6423	OD 23AWG CAT6 UTP network cable, PVC	UTP, PVC
OD6123	OD 23AWG CAT6 UTP network cable, LSZH	UTP, LSZH