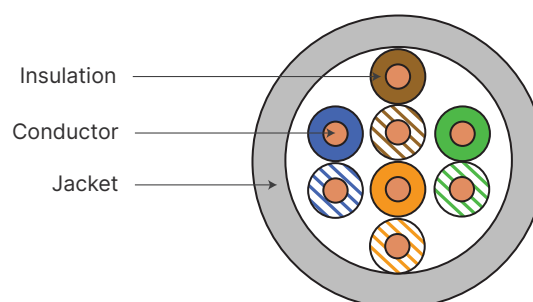


OD Cat.5e Series

24AWG CAT5E UTP Network Cables

Overview

Each Cat5E UTP cable is performance optimized with 4 balanced twisted pairs on 24 AWG insulated solid bare copper conductors. OD Cat5E 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

Mechanical Characteristics

Minimum Bending Radius	4 x Diameter
Maximum Tensile Load	Nom. 100N
Maximum Tensile Load, Installed	No Stretch
Temperature During Operation	-20°C ~ +60°C
Temperature During Installation	0°C ~ +50°C

Physical Characteristics

Conductor	Solid Bare Copper
AWG	24
Conductor Diameter	0.5 (± 0.0005mm)
Insulation	PVC, LSZH
Insulation Diameter	Ø0.9mm
Jacket	PVC, LSZH
Jacket Cover	PVC, LSZH: Grey
Outer Diameter	4.8 (± 0.3mm)
Weight	28kg /km

Electrical Characteristics

Characteristic impedance (1-130 MHz)	(100 ± 15) Ω
Mean Characteristic impedance 100 Mhz	(100 ± 5) Ω
DC-loop resistance	Nom. 170 Ω /km
Resistance unbalance	≤ 2 %
Propagation Delay	≤ 800 ns /km
Skew, maximum at 100MHz	≤ 200 ns /km
Mutual capacitance	Nom. 47 pF/m
Capacitance unbalance (pair to ground)	≤ 300 pF /km
Nominal velocity of propagation (NVP)	Nom. 69%

Available Options

OD5024	OD 24AWG CAT5E UTP network cable, PVC	UTP, PVC
OD5024L	OD 24AWG CAT5E UTP network cable, LSZH	UTP, LSZH