Opternet
LAN CABLE

OPTERNET CABLES & WIRES

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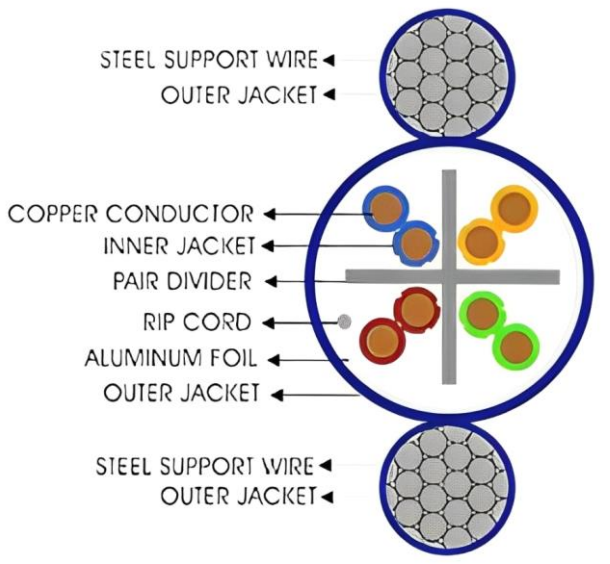
CAT6PVC23AWGUTPBC3908



CAT 6 U / UTP 23AWG LIFT TRAVELLING CABLE- BARE COPPER

Opternet cables are the best twisted-pair cables in the market for transmitting data over local area networks (LANs). As streaming videos and multimedia over LAN are gaining popularity, users demand faster data transmission and reduce waiting time. Opternet cables are ideal for simple, cost effective and high-speed transmission performance. They support a higher signal-to-noise ratio, providing better reliability for current applications and higher data rates for future applications. CAT6 cables reduce crosstalk and system noise. The superior insulation around the 23AWG copper wires attributes to the increase performance. They cable transmit data at 1000Mbps (1Gigabit per second) with a frequency of 100MHz and suitable for 10BASE -T, 100BASETX fast Ethernet and 1000BASE-T / 1000BASE-TX (Gigabit Ethernet)

PHYSICAL AND MECHANICAL PROPERTIES

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Basic Conductor	Solid bare annealed copper
Conductor Size	23AWG / 0.57
Insulation	HDPE
Number of Insulated Conductors	8, Twisted In 4 Pairs + 2 strong tensile force steel wire
Color Code of Pairs	Blue X White/Blue, Orange X White/Orange, Green X White/Green. Brown X White/Brown
Outer Jacket	Elasticity PVC
Standard Jacket Color	Blue/Grey/Black
Standard Surface Marking	Includes Opternet Cable P/N, Cable Description, Meter Mark And Model Number
Pulling Force	50 N/mm2
Short Term Bend Radius	8XOD (mm)
Storage Temperature	-20 TO +80C
Temperature Operating Range	-20 TO +60C
Installation Temperature Range	max 0 TO +60C
Flame Test	IEC 60332-1

ELECTRICAL SPECIFICATIONS

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Characteristic Impedance	100±6 Ohm @1-100 MHz	Dielectric Strength	1500 Volt/1Minutes Min Rmx
DC Resistance	93 ohm/km max	Velocity of Propagation(NVP)	67 – 69%
Resistance Unbalance	2% max	Propagation Delay	514+ 36/f. Ns/100m max @ 1-300 MHz
Mutual Capacitance	4.5 pF/ 100m max @ 1KHz	Propagation Delay Skew	35 nS/100m max @ 1-300 MHz
Cap. Unbalance(wired To Ground)	1500 pF m max @1KHz	Insulation Resistance	5000 MOhm.m.min @ 500Vdc
Voltage Rating	72 Vdc max.	Coupling Attenuation	40 db min @ 30-100MHz 40-20log(f/100) @ 100 – 300 MHz