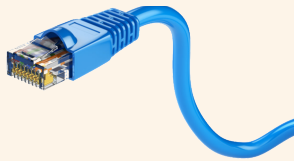


APAR Tarang Shakti | LAN CABLE

CAT 5E, CAT 6 & CAT 6A · HIGH-SPEED NETWORK CABLES



APAR LAN Cables, designed for high-speed network access, feature four twisted copper wire pairs to prevent interference, are flexible, and provide reliable signal transmission, with CAT 6 (With Separator) cables optimized for high-performance data transmission with low Bit Error Rate.



FOUR TWISTED COPPER WIRE PAIRS

APPLICATION

A multi-pair performance cable that consists of twisted pair conductors, used mainly for data transmission. Category 6 is recommended for all new installations, supports a frequency range of up to 250MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet).

CHARACTERISTIC	-20°C to +60°C TEMPERATURE RATING	4 × MIN BENDING RADIUS FIXED · OVERALL DIAMETER	8 × MIN BENDING RADIUS FLEXED · OVERALL DIAMETER
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SPECIFICATION Type: LAN · Colour: Grey	CONDUCTOR Class 1 solid copper conductor	INSULATION HDPE (High Density Polyethylene)
SCREEN Aluminium foil	SHEATH PE (Polyethylene)	SHEATH COLOUR Black

TECHNICAL CHARACTERISTICS AND STANDARDS

Cable Type	Packing
24 AWG Cat 6 UTP Unarmoured FR PVC Cable	305 m
24 AWG Cat 6 UTP Wire Armoured LSZH Cable	305 m

TECHNICAL SPECIFICATIONS FOR LAN CABLES OF CATEGORIES 5E, 6, AND 6A

Specification	Category 5e (Cat 5e)	Category 6 (Cat 6)	Category 6a (Cat 6a)
Maximum Data Rate	1 Gbps	1 Gbps	10 Gbps
Maximum Frequency	100 MHz	250 MHz	500 MHz
Maximum Cable Length	100 meters	100 meters	100 meters
Maximum Cable Length	100 meters	100 meters	100 meters
Cable Construction	Four twisted pairs of copper wires (eight total conductors) with a specified impedance of 100 ohms.	Four twisted pairs of copper wires (eight total conductors) with a specified impedance of 100 ohms. Cat 6 cables have tighter twists and better shielding.	Similar to Cat 6, with larger gauge conductors and more robust shielding.
Cable Diameter	Typically around 5.8 mm (0.23 inches)	Typically around 6.2 mm (0.24 inches)	Typically around 7.0 mm (0.28 inches)
Performance	Suitable for basic networking needs and up to 1 Gbps data transmission.	Better performance and reduced signal degradation compared to Cat 5e. Suitable for higher bandwidth applications.	Designed for 10 Gbps Ethernet connections overfull 100-meter distance. Suitable for high-performance applications.