

GN-C61000WIT

Cat6 Solid Bare Copper UTP 23AWG Cable



Standards Conformance

Category 6 UTP copper cable meets TIA/EIA-568-B standards by ETL, and ISO/IEC 11801-B2 standards Class E.

Specifications

Pulling force:	50 N/mm ² max.
Short term bend radius:	8xOD mm
Long term bend radius:	4xOD mm
DC resistance:	80 Ohm/km max.
Capacitance:	56 max. pF/m @ 1kHz.
Voltage rating:	75 Vdc max.

Features

The conductor sizes are set at 23 AWG copper, Frequency range 1-250 MHz. The copper conductors are twisted in pairs, separated by a cross divider and covered by Flame Retardant PVC jacket.



CE FC RoHS

➤ Technical information

Electrical performance	
Electrical performance	Certified performance in a 4-connector configuration up to 100 meters, meets TIA/EIA-568-B Category 6 and ISO/IEC 11801-B2 standards Class E channel requirements
Conductors	23 AWG solid bare copper, 0.57mm
Flame rating	LSZH-1: IEC 60332-1, 60754-1, 60754-2, 61034-2, EN50575: Euroclass Dca – s2, d2, a1 LSZH-3: IEC 60332-3, 60754-1, 60754-2, 61034-2 EN50575: Euroclass Dca-s1a, d2, a1 CM: UL 1685, EN 50575: Euroclass Eca CMR: UL 1666
POE compliance	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Installation tension	110N (25 lbf.) maximum
Temperature rating	0° to 50°C (32° to 122°F) during installation -20° to 60°C (14° to 140°F) during operation
Cable jacket	Flame retardant PVC
Cable diameter	5.6mm (0.222 in.) nominal
Cable weight	CM – 12 kg/305m (26 lbs./1000 ft.)
Packaging	305m (1000 ft.) easy-pay-out box PVC (CM) – 14 kg/305m (29 lbs./1000 ft.) Packaged tested to ISTA procedure 1A
Key features and benefits	
Third party tested	Cable has been tested as part of the NetKey® Category 6 UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standard: ANSI/TIA-568-C.2 Category 6 standard
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Cross divider	Separates twisted pairs for robust cable performance
Easy payout box	Ensures proper performance and provides quick installation

Applications

Applications include: • Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet)
• 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM • Token ring 4/16

Additional Specifications - Mechanical Test

Ultimate Breaking Strength	>400 N (90 lbf.)
Minimum Bend Radius	4 x cable diameter

Additional Specifications - Electrical Test

Nominal Velocity of Propagation (NVP)	65%
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➤ Cable Construction

