ETL
Synergy Solutions Company

ETL SINAR SOLUTIONS SDN BHD

Network Cable

SKU: ETL-UTP-CAT6-305M-CCA-BL

ETL CAT 6 UNSHIELDED TWISTED PAIR NETWORK CABLE



Applications

- High-speed horizontal distribution cabling for indoor local area networks (LAN).
- Interconnect lines for digital building infrastructure, office networks, and smart automation systems.
- Seamless patching for server rooms, network racks, patch panels, and telecommunication distribution frames.

Features

- **Optimal Gauge Structure**: Uses 23 AWG solid conductors (0.56mm±) that offer an exceptional balance of tensile strength and flexible physical routing in standard interior conduits.
- **Unshielded Precision Layout**: Standard UTP design minimizes physical diameter, making it easy to pull, splice, and terminate within standard RJ45 systems and patch points.
- **Value-Driven Composition**: Incorporates specialized Solid CCA conductor technology to optimize electrical signaling while delivering highly competitive structural cost metrics.
- **Highly Identifiable Sheathing**: Outfitted in a clean, professional blue jacket layer for rapid cable identification and trace-mapping during installation and maintenance.

Cable Parameters

Parameter	Specification	Notes / Compliance
PoE Compatibility	Standard PoE (IEEE 802.3af)	Suitable for low-wattage IP cameras / VoIP phones
Maximum PoE Wattage	15.4W	Optimized for data-heavy, low-heat indoor environments
TIA 568-C.2 Cat6 Link	Compliant	Meets transmission protocols for Category 6
Maximum Application Speed	1000Mbps (1GBASE-T)	Supports high-speed Gigabit Ethernet networks
Nominal Velocity of Propagation (NVP)	65% – 68%	Standard propagation speed for CCA cores
Maximum Operating Voltage	300V	Safe rating for standard network equipment infrastructure
1.0 - 250MHz Impedance (Ω)	100 ± 15	Industry standard differential impedance
Maximum Operating Frequency	250MHz	Standard Cat6 frequency bandwidth
1.0 - 250MHz Delay Skew (ns/100m)	≤ 45	Ensures tight arrival timing across all 4 twisted pairs
Pair-to-Ground Capacitance Unbalance	≤ 3300 pF/km	Minimizes external signal interference and noise
Max. Conductor DC Resistance 20°C	≤ 135 Ω/km	Accurate physical metric for 23 AWG CCA

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