

ERAT CAT 6 U/UTP 24 AWG Data Patch Cord



FEATURES

The ERAT U/UTP Patch Cord Series is designed for structured cabling systems with a 100 Ω characteristic impedance, providing reliable connections between network cabinets and end-user equipment. Featuring a 4-pair U/UTP construction, each patch cord is factory-terminated with RJ45 modular plugs on both ends.

Manufactured in accordance with ISO/IEC 11801:2011 (Ed. 2.2) and ANSI/TIA-568.2-D standards, the products meet the performance requirements of Category 6. They are compatible with both T568A and T568B wiring schemes and comply with IEC 60332-1-2 flame propagation requirements.

When installed as part of a complete ERAT structured cabling system, the products are backed by a 25-year system performance warranty.

The standard jacket color is Grey (RAL 7035). Additional color options are available upon request.



THE ERAT PATCH CORD SERIES SUPPORTS THE FOLLOWING LAN APPLICATIONS:

- 1000BASE-TX Gigabit Ethernet (Category 6, TIA/EIA-854)
- 1000BASE-T Gigabit Ethernet
- ATM 155
- TP-PMD
- 100BASE-T Fast Ethernet
- 100BASE-T2
- 100BASE-T4
- 100BASE-TX
- ITU-T V.21 and X.11
- Token Ring (100 Mbps)
- ATM 52
- ATM 25
- 10BASE-T Ethernet
- Token Ring (4 Mbps and 16 Mbps)
- Broadband and Baseband Video
- ISDN Basic Rate Access (BRA) and Primary Rate Access (PRA)
- 1BASE-5 StarLAN
- ISALAN

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PHYSICAL CHARACTERISTICS	
Conductor	Flexible, 24 AWG, 7 × 0.20 mm annealed stranded bare copper
Insulation Material	Polyolefin
Number of Insulated Conductors	8 conductors (4 twisted pairs)
Color Code	White/Orange, Orange, White/Green, Blue, White/Blue, Green, White/Brown, Brown
Overall Shield	-
Foil Shield	-
Outer Jacket	LSZH (Low Smoke Zero Halogen), flame-retardant
RJ45 Plug	Contact material: Phosphor bronze; Contact plating: 2.54 µm (100 µin) nickel with 1.27 µm (50 µin) gold over nickel
Cable Diameter	6.0 ± 0.2 mm

ELECTRICAL & MECHANICAL CHARACTERISTICS	
Insulation Resistance	≥ 500 MΩ·km @ 500 VDC
Characteristic Impedance	100 ± 15 Ω (1–250 MHz)
Contact Resistance	≤ 20 mΩ
Resistance Unbalance	≤ 2%
Dielectric Strength	1000 VAC for 1 minute (RMS)
Insertion Loss	40 dB @ 30–100 MHz; 40 – 20 log (f/100) dB @ 100–250 MHz
Cable-to-Plug Tensile Strength	≥ 90 N (9 kgf)
Plug Durability	≥ 1,200 mating cycles
Operating Temperature	–25°C to +70°C

Note: Custom lengths from 0.25 m to 15 m are available upon request.