

ERAT CAT 6A S/FTP 28 AWG Data Patch Cord



FEATURES

The ERAT S/FTP 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 S/FTP 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 6A. 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:

- 10GBASE-T 10 Gigabit Ethernet
- 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
- 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
- ITU-T V.21 and X.11

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PHYSICAL CHARACTERISTICS	
Conductor	Flexible, 28 AWG, 7x0,12 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
Individual Pair Shield	Polyester-aluminum foil, foil facing outward, providing 100% coverage
Overall Shield	Tinned copper braid in direct contact with the individual pair shields
Outer Jacket	LSZH (Low Smoke Zero Halogen), flame-retardant
RJ45 Plug	Contact material: Phosphor bronze; Contact plating: 2.54 μ m (100 μ in) nickel with 1.27 μ m (50 μ in) gold over nickel
Cable Diameter	5.8 $\pm$ 0.2 mm

ELECTRICAL & MECHANICAL CHARACTERISTICS	
Insulation Resistance	$\geq 500 \text{ M}\Omega \cdot \text{m}$ @ 500 VDC
Characteristic Impedance	100 $\pm$ 15 Ω (1–500 MHz)
Contact Resistance	$\leq 20 \text{ m}\Omega$
Resistance Unbalance	$\leq 2\%$
Dielectric Strength	1000 VAC for 1 minute (RMS)
Insertion Loss	$\geq 55 \text{ dB}$ @ 30–100 MHz; 55 – 20 log (f/100) dB @ 100–500 MHz
Cable-to-Plug Tensile Strength	$\geq 90 \text{ N}$ (9 kgf)
Plug Durability	$\geq 1,200$ mating cycles
Operating Temperature	–25°C to +70°C

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