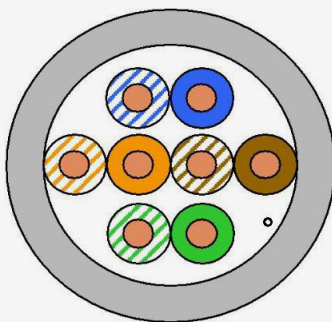


CATEGORY 5E UTP CABLE FOR INDOOR USE

PSC-CAT5E



Application

- Voice, Data, Security and Video Applications. IP Megapixel CCTV/Analog Installations
- Wire Access Points
- Gigabit Indoor Video/data installations
- Long distance PoE feeding.

Standards

- ANSI EIA/TIA 568 C.2;
- ISO/IEC 11801 2nd Edition;
- EN 50173;
- IEEE 802.3at

Construction

| | |
|------------------|--|
| Conductor | Bare copper wire (AWG24/0.45±0.005mm) |
| Insulation | Polyethylene, Ø 0.85±0.02 mm |
| Insulation Color | Blue/White-Blue, Orange/white-Orange, Green/white-Green, Brown/white-Brown |
| Twisting | 2 cores to the pair |
| Cable lay up | 4 pairs to the core |
| Rip Cord | Yes |
| Sheath | PVC Grey RAL 7046 |
| Diameter | 4.80±0.2mm |

Mechanical properties

| | | |
|------------------------|---------------------|----------------|
| Minimum bending radius | Installation | 8 x D |
| | Installed | 4 x D |
| Temperature range | during operation | -20°C ~ + 60°C |
| | during installation | 0°C ~ + 50°C |
| Fluke Permanent Link | Up To 90 Meters | |

Electrical properties @ 20°C

| Electrical properties @ 20°C | |
|---------------------------------------|-----------------------------|
| Dielectric strength | 2.5 KV dc-2 seconds |
| Conductor resistance | Max 11 .00 ohm/100M at 20°C |
| Max. Ring resistance | 16.8 Ohm/100M at 20°C |
| Max. Mutual capacitance | 560 pf/100M |
| Max. Capacity unbalance | 330 pf/100M |
| Mean characteristic impedance 100 MHz | 100 ± 15 Ω |
| Nominal velocity of propagation | approx. 67 % |
| Propagation delay | Nominal 535 ns/100m |
| Delay skew | Nominal 20 ns/100m |
| Test voltage (DC, 1 min) | 1000 V |
| Core/Core Coupling attenuation | ≥ 40 dB |

Nominal transmission characteristics @ 20°C

| Fre. | Attenuation | NEXT | PS-NEXT | ACR | PS-ACR | ACRF | PS-ACRF | Return loss |
|-------|-------------|------|---------|----------|----------|----------|----------|-------------|
| (MHz) | dB/100m) | (dB) | (dB) | dB/100m) | dB/100m) | dB/100m) | dB/100m) | (dB) |
| 1 | 1,9 | 71 | 68 | 69,1 | 66,1 | 68 | 65 | 20 |
| 4 | 3,7 | 62 | 59 | 58,3 | 55,3 | 56 | 53 | 23 |
| 10 | 6 | 56 | 53 | 50 | 47,0 | 48 | 45 | 25 |
| 16 | 7,6 | 53 | 50 | 45,4 | 42,4 | 44 | 41 | 25 |
| 20 | 8,5 | 51 | 48 | 42,5 | 39,5 | 42 | 39 | 25 |
| 31,2 | 10,7 | 49 | 46 | 38,3 | 35,3 | 38 | 35 | 24 |
| 62,5 | 15,7 | 44 | 41 | 28,3 | 25,3 | 32 | 29 | 22 |
| 100 | 19,8 | 41 | 38 | 21,2 | 18,2 | 28 | 25 | 20 |