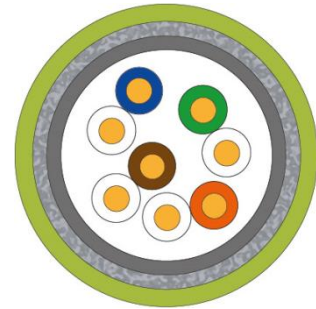


Twisted Pair Patch Cable, Raw - Category 5e Class D - SF/UTP



Abstract

CAT 5e Class D, SF/UTP, Twisted Pair Patch Cable, Raw, PVC, 100 MHz

Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T

IEEE 802.5: 16 MB; ISDN; FDDI; ATM; PoE

Norms

ANSI/TIA 568-C; ISO/IEC 11801 2nd Ed.; EN 50173; EN 50288-3-1

Physical Properties

| | |
|--------------------------------------|--|
| Conductor | Bare annealed copper, stranded AWG 26/7 |
| Insulation | HD-PE (High Density Polyethylene) |
| Total number of insulated conductors | 8, twisted in 4 pairs |
| Color code | Blue-white, orange-white, green-white, brown-white |
| Individual pair shielding | None |
| Overall shielding | Foil- and braid shielding |
| Outer sheath | PVC |
| Outer sheath diameter | 0.55 mm nominal |
| Outer sheath color | Grey (RAL 7035) |

Mechanical Properties

| | |
|---|---------------------|
| Tensile loading | 150 N max. |
| Dynamic bending radius | 8x AD mm min. |
| Static bending radius | 4x AD mm min. |
| Shipping- and storage temperature range | -10 °C up to +75 °C |
| Operating temperature range | -10 °C up to +60 °C |
| Installations temperature range | 0 °C up to +50 °C |
| Overall diameter | 5.6 mm nominal |

Electrical Properties

| | |
|-------------------------------------|---------------------------|
| DC loop resistance | ≤ 280 Ω km |
| Resistance unbalance | ≤ 2% |
| Insulation resistance | ≥ 2000MΩ/km @500V |
| Capacitance | nom. 48 nF/km @ 800 Hz |
| Capacitance unbalance (pair-ground) | ≤ 1500 nF/km |
| Characeristic Impedance | 100 ± 15 Ohm @ 10-100 MHz |
| NVP | 67% |
| Propagation delay | nom. ≤ 555 ns/100 m |
| Delay skew | nom. ≤ 50 ns/ 100 m |
| Test voltage (DC 1 min) core/core | 1000V |
| Coupling attenuation | ≥ 4 dB |

Transmission Properties

| FREQ. | ATT | NEXT | PS NEXT | RL | ACR | PS ACR |
|-------|------|------|---------|------|------|--------|
| MHz | dB | dB | dB | dB | dB | dB |
| 1 | 2.2 | 60.0 | 57.0 | 17.0 | 57.4 | 54.4 |
| 10 | 7.1 | 47.0 | 44.0 | 17.0 | 37.4 | 34.4 |
| 100 | 24.0 | 30.1 | 27.1 | 10.0 | 23.3 | 14.4 |

Product Number Information

| Item code | Length | Packaging |
|-----------------|--------|-----------|
| DK-1531-P-1-1 | 100 m | Carton |
| DK-1531-P-305-1 | 305 m | Carton |