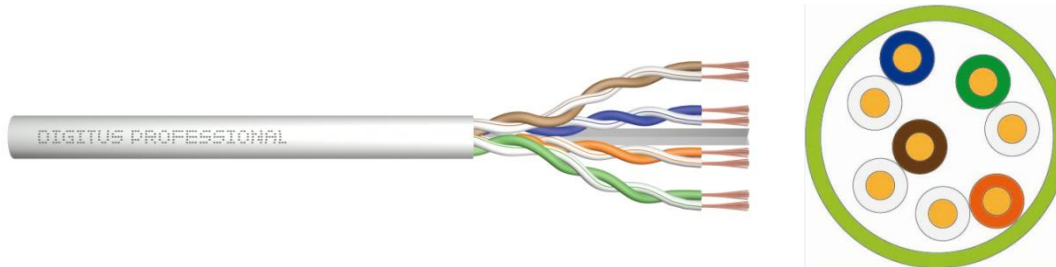


Twisted Pair Patch Cable, Raw - Category 6 Class E - U/UTP



Abstract

CAT 6 Class E, U/UTP, Twisted Pair Patch Cable, Raw, AWG 26/7, LSZH, 250 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 50288-6-1

FRNC (flame retardancy)

IEC 60332-1; IEC 60754-2; IEC 61034

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; incl. plastic cross separator |
| Overall shielding | None |
| Outer sheath | LSZH |
| Outer sheath diameter | 0.55 mm nominal |
| Outer sheath color | Grey |

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 | 5.0 mm nominal |
| Flame retardancy | IEC 60332-1 (LSZH-1/FRNC-B) |
| Halogen free & smoke-proof | IEC 60754-2 & IEC 61034 |

Electrical Properties

| | |
|-------------------------------------|--|
| DC loop resistance | $\leq 280 \Omega \text{ km}$ |
| Resistance unbalance | $\leq 2\%$ |
| Insulation resistance | $\geq 2000\text{M}\Omega/\text{km @ 500V}$ |
| Capacitance | nom. 48 nF/km @ 800 Hz |
| Capacitance unbalance (pair-ground) | $\leq 1500 \text{ nF/km}$ |
| Characeristic Impedance | $100 \pm 15 \text{ Ohm @ 10-100 MHz}$ |
| NVP | 67% |
| Propagation delay | nom. $\leq 555 \text{ ns/100 m}$ |
| Delay skew | nom. $\leq 50 \text{ ns/ 100 m}$ |
| Test voltage (DC 1 min) core/core | 1000V |
| Coupling attenuation | $\geq 4 \text{ dB}$ |

Transmission Properties

| FREQ. | ATT | NEXT | PS NEXT | RL | ACR | PS ACR | ELFEXT | PS ELFEXT |
|-------|------|------|---------|------|------|--------|--------|-----------|
| MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| 10 | 6.3 | 56.6 | 54.0 | 19.0 | 43.3 | 40.3 | 43.3 | 40.3 |
| 100 | 21.3 | 39.9 | 37.1 | 12.0 | 23.3 | 20.3 | 23.3 | 20.3 |
| 200 | 31.5 | 34.8 | 31.9 | 9.0 | 17.2 | 14.2 | 17.2 | 14.2 |
| 250 | 35.9 | 33.1 | 30.2 | 8.0 | 15.3 | 12.3 | 15.3 | 12.3 |

Product Number Information

| Item code | Length | Packaging |
|---------------|--------|-----------|
| DK-1613-P-1 | 100 m | Carton |
| DK-1613-P-305 | 305 m | Carton |