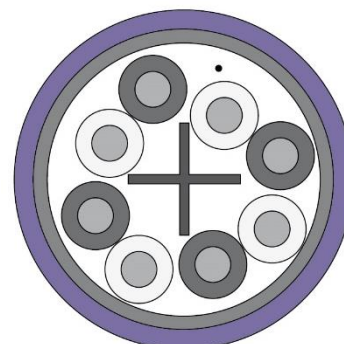
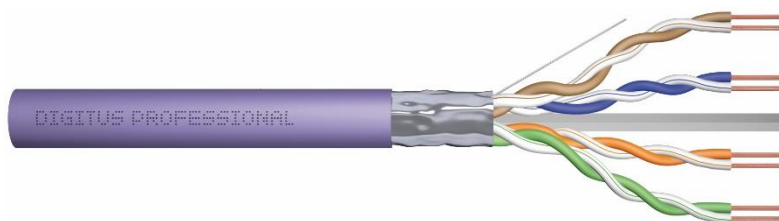




Twisted Pair Installation Cable - Category 6 Class E - F/UTP



Abstract

CAT 6 Class E, F/UTP, Twisted Pair Installation Cable, 250 MHz

Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 2.5GBase-T;
5GBase-T
IEEE 802.5: 16 MB; ISDN; FDDI; ATM; PoE/PoE+

Certification

ETL Type Approval (101152681CRT-001c)

Standards

ISO/IEC 11801 3rd Ed.; IEC 61156-5
EN 50173-1/4; EN 50288-5-1

Physical Properties

| | |
|--------------------------------------|---|
| Conductor | Bare annealed copper, solid AWG 23/1 |
| 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 | Aluminum foil, providing 100% coverage, with drain wire |
| Outer sheath | E _{CA} to B _{2CA} acc. to EN 50575; LSZH |
| Outer sheath diameter (nominal) | 0.5 mm (E _{CA}); 0.6 mm (D _{CA}); 0.8 mm (C _{CA}); 0.8 mm (B _{2CA}) |
| Outer sheath color | Purple |

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 | -20 °C up to +60 °C |
| Operating temperature range | -20 °C up to +75 °C |
| Installations temperature range | 0 °C up to +50 °C |
| Overall diameter Simplex (nominal) | 7.0 (E _{CA}); 7.2 mm (D _{CA}); 7.6 mm (C _{CA}); 7.6 mm (B _{2CA}) |
| Weight (kg/km) | 46 kg (E _{CA}); 47 kg (D _{CA}); 48.5 kg (C _{CA}); 48.5 kg (B _{2CA}) |



Electrical Properties

| | |
|-------------------------------------|--|
| Impedance | 100 ± 5 Ohm @ 1-250 MHz |
| Capacitance | 45 pF/m nominal @ 800 Hz |
| Capacitance unbalance (pair-ground) | 1.5 pF/m max. @ 1 KHz |
| Insulation resistance | 5 GOhm x km min. |
| DC resistance | 72 Ohm/km max. (2% max. resistance unbalance) |
| DC loop resistance | 147 Ohm/km max. (2% max. resistance unbalance) |
| Voltage resistance | 72 Vdc max. |
| Coupling attenuation | CA-Type 3 |
| Signal propagation delay | 535 nS/100 m max. |
| Propagation delay | 20 nS/100 m max. |
| Separating class | „c“ acc. to EN-50174-2 |
| NVP | 69% |

Product Number Information

| Item code | Length/Packaging | Reaction to fire acc. to EN 50575 | DoP number |
|----------------|---------------------|-----------------------------------|--------------|
| DK-1623-VH-1 | 100 m box, simplex | E _{CA} | DoP_1000_051 |
| DK-1623-VH-305 | 305 m drum, simplex | | |
| DK-1623-VH-5 | 500 m drum, simplex | | |
| DK-1624-VH-1 | 100 m box, simplex | D _{CA} | DoP_1000_054 |
| DK-1624-VH-305 | 305 m drum, simplex | | |
| DK-1624-VH-5 | 500 m drum, simplex | | |
| DK-1625-VH-1 | 100 m box, simplex | C _{CA} | DoP_1000_072 |
| DK-1625-VH-305 | 305 m drum, simplex | | |
| DK-1625-VH-5 | 500 m drum, simplex | | |
| DK-1626-VH-1 | 100 m box, simplex | B2 _{CA} | DoP_1000_035 |
| DK-1626-VH-305 | 305 m drum, simplex | | |
| DK-1626-VH-5 | 500 m drum, simplex | | |

Transmission Properties

| FREQ. | ATT | NEXT | PS-NEXT | ACR | PS-ACR | EL-FEXT | PS-ELFEXT | RL |
|-------|------|------|---------|------|--------|---------|-----------|------|
| MHz | dB | dB | dB | dB | Db | dB | dB | dB |
| 1 | 2,1 | 74.3 | 71.3 | 72.2 | 69.2 | 68 | 65 | 26 |
| 10 | 5,9 | 59.3 | 56.3 | 53.4 | 50.4 | 48 | 45 | 25 |
| 100 | 19,1 | 44.3 | 41.3 | 25.2 | 22.2 | 28 | 25 | 20.1 |
| 250 | 31.1 | 38.3 | 35.3 | 7.2 | 4.2 | 20 | 17 | 17.3 |

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