

Draka - UC300 26 Cat.5e U/UTP Colour: xx



UC Data Cable - Draka Office Network Solution

Symmetrical 100 Ω data transmission cables from Universal Cable line UC.. acc. to ISO/IEC 11801, EN 50173 and EIA/TIA 568A are used for high speed data transmission, mainly in secondary and horizontal cabling in standardised, manufacturer-independent local networks (LAN), ranging from Token Ring, Ethernet, ISDN, TPDDI, Fast-Ethernet 100Base-TX to ATM and Gigabit-Ethernet 1000Base-T and CATV. All shielded cables of line UC400 and up are ready for 10 Gigabit Ethernet (IEEE802.3: 10GBase-T).

Application

Work area and patch cord cable

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

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EIA/TIA 568A;

ISO/IEC 11801 2nd ed.; IEC 61156-6

EN 50173-1; EN 50288-3-2

Flame resistance

PVC: IEC 60332-1

LSHF(FRNC): IEC 60332-1; IEC 60754-2; IEC 61034



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Technical Data

Construction

| | |
|--------------|--|
| Type | UC300 26 Cat.5e U/UTP |
| Conductor | stranded bare copper wire Ø 0.48 mm (AWG 26) |
| Insulation | Polyethylene, Ø 0.9 mm |
| Twisting | 2 cores to the pair |
| Cable lay up | 4 pairs to the core |
| Sheath | PVC or FRNC, grey RAL 7035 |

Mechanical properties

| | | |
|------------------------|---------------------|-------------------|
| Minimum bending radius | Without load | ≥ 20 mm |
| | With load | ≥ 40 mm |
| Temperature range | During operation | -20°C up to +60°C |
| | During installation | 0°C up to +50°C |

Electrical properties at 20°C

| | | |
|---------------------------------|------------------|---------------|
| DC Loop resistance | | ≤ 260 Ω/km |
| Resistance unbalance | | ≤ 3% |
| Insulation resistance | 500 V | ≥ 2000 MΩ*km |
| Capacitance | at 800 Hz | Nom. 48 nF/km |
| Capacitance unbalance | (pair to ground) | ≤ 1500 pF/km |
| Characteristic impedance | (1-100 MHz) | (100 ± 15) Ω |
| Nominal velocity of propagation | | approx. 67% |
| Propagation delay | | ≤ 535 ns/100m |
| Delay skew | | ≤ 20 ns/100m |
| Test voltage | (DC, 1 min) | 1000 V |
| Core/Core and Core/Screen | | |
| Coupling attenuation | | ≥ 40 dB |

Electrical Data (nominal) acc. to Cat.7 (at 20°C)

| F | Atten-uation | NEXT | NEXT | PS-NEXT | PS-NEXT | ELFEXT | ELFEXT | PS-ELFEXT | PS-ELFEXT | Return loss |
|------|--------------|---------|---------|---------|---------|-------------|------------|-------------|-------------|-------------|
| MHZ | dB/10m | dB min. | dB nom. | dB min. | dB nom. | dB/10m min. | B/10m nom. | dB/10m min. | dB/10m nom. | dB |
| 1.0 | 0.3 | 65 | 71 | 62 | 68 | 64 | 68 | 61 | 65 | 20 |
| 4.0 | 0.6 | 56 | 62 | 53 | 59 | 52 | 56 | 49 | 53 | 23 |
| 10.0 | 0.9 | 50 | 56 | 47 | 53 | 44 | 48 | 41 | 45 | 25 |
| 16.0 | 1.1 | 47 | 53 | 44 | 50 | 40 | 44 | 37 | 41 | 25 |
| 20.0 | 1.3 | 46 | 51 | 43 | 48 | 38 | 42 | 35 | 39 | 25 |
| 31.2 | 1.6 | 43 | 49 | 40 | 46 | 34 | 38 | 31 | 35 | 24 |
| 62.5 | 2.4 | 38 | 44 | 35 | 41 | 28 | 32 | 25 | 29 | 22 |

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| | | | | | | | | | | |
|-------|-----|----|----|----|----|----|----|----|----|----|
| 100.0 | 3.0 | 35 | 41 | 32 | 38 | 24 | 28 | 21 | 25 | 20 |
| 125.0 | 3.3 | | 40 | | 37 | | 26 | | 23 | 19 |
| 155.5 | 3.6 | | 38 | | 35 | | 24 | | 21 | |
| 175.0 | 3.9 | | 37 | | 34 | | 23 | | 20 | |
| 200.0 | 4.1 | | 36 | | 32 | | 20 | | 17 | |
| 300.0 | 4.8 | | 34 | | 31 | | 16 | | 13 | |

| | |
|----------------|-------------|
| Outer diameter | 5.2 mm |
| Fire load | 324 MJ/km |
| | 0.092 kWh/m |
| Weight | 26 kg/km |
| Copper content | 11 |
| Tensile force | 55 N |

Colour = xx: GR (grey), GN (green), BL (blue), GE (yellow), RT (red), OR (orange), SW (black)

Product variants & accessories

| Art.-No. | Description |
|------------|--|
| UC300-26xx | Draka - UC300 26 Cat.5e U/UTP Colour: xx |