Draka - UC300 24 Cat.5e U/UTP 4P (LSHF)

\*\*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 ATMand Gigabit-Ethernet 1000Base-T and CATV. All shielded cables of line UC400 and up are ready for 10 Gigabit Ethernet (IEEE802.3: 10GBase-T).

\*\*TP Cable

Application
Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

Standards
EIA/TIA 568A;
ISO/IEC 11801 2nd ed.; IEC 61156-5
EN 50173; EN 50288-3-1
IEEE 802.3at

Flame resistance
LSHF IEC 60332-1; IEC 60754-2; IEC 61034; Class Eca

\*\*TECHNISCHE\_DATEN

|  |  |
| --- | --- |
| Conductor | bare copper wire Ø 0.5 mm (AWG24/1) |
| Insulation | Polyethylene, Ø 0.9 mm |
| Twisting | 2 cores to the pair |
| Cable lay up | 4 pairs to the core |
| Sheath | LSHF (FRNC, LSOH), grey RAL 7035 |

|  |  |  |
| --- | --- | --- |
| 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 |

|  |  |  |
| --- | --- | --- |
| DC loop resistance |   | ≤ 192 Ω/km |
| Resistance unbalance |   | ≤ 2% |
| Insulation resistance | 500 V | ≥ 2000 MΩ\*km |
| Capacitance | 800 Hz | Nom. 48 nF/km |
| Capacitance unbalance | pair to ground | ≤ 1500 pF/km |
| Mean characteristic impedance | 100 MHz | 100 ± 5 Ω |
| Nominal velocity of propagation |   | approx. 67% |
| Propagation delay |   | Nominal ≤ 535 ns/100m |
| Delay skew |   | Nominal ≤ 20 ns/100m |
| Test voltage (DC, 1 min) Core/Core |   | 1000 V |
| Coupling attenuation |   | ≥ 40 dB |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| F MHZ | Attenuation dB/100m | NEXT dB | PS- NEXT dB | ACR dB/100m | PS-ACR dB/100m | ELFEXT dB/100m | PS-ELFEXT dB/100m | Return loss dB |
| 1.0 | 1.9 | 71 | 68 | 69.1 | 66.1 | 68 | 65 | 20 |
| 4.0 | 3.7 | 62 | 59 | 58.3 | 55.3 | 56 | 53 | 23 |
| 10.0 | 6 | 56 | 53 | 50 | 47.0 | 48 | 45 | 25 |
| 16.0 | 7.6 | 53 | 50 | 45.4 | 42.5 | 44 | 41 | 25 |
| 20.0 | 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 |
| 100.0 | 19.8 | 41 | 38 | 21.2 | 18.2 | 28 | 25 | 20 |
| 125.0 | 22.3 | 40 | 37 | 17.7 | 14.7 | 26 | 23 | 19 |
| 155.5 | 24.2 | 38 | 35 | 13.8 | 10.8 | 24 | 21 |   |
| 175.0 | 25.7 | 37 | 34 | 11.3 | 8.3 | 23 | 20 |   |
| 200.0 | 27.5 | 36 | 33 | 8.5 | 5.5 | 22 | 19 |   |
| 250.0 | 29.5 | 35 | 32 | 5.8 | 2.8 | 20 | 17 |   |
| 300.0 | 32.0 | 34 | 31 | 2.0 | -1.0 | 16 | 13 |   |

|  |  |
| --- | --- |
| Outerdiameter | 5.0 mm |
| Fire load | 336 MJ/km |
|   | 0.093 kWh/m |
| Weight | 36 kg/km |
| Copper content | 17.5 |
| Tensile force | 80 N |