Draka - UC300 HS24 Cat.5e SF/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
EN 50173-1; EN 50288-2-1
ISO/IEC 11801; IEC 61156-5
TIA/EIA-568-C.2
IEEE 802.3at
Flame resistance
LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034; Class Eca

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| --- | --- |
| Conductor | bare copper wire, Ø 0.51 mm (AWG24/1) |
| Insulation | PE, Ø 1.1 mm |
| Twisting | 2 cores to the pair |
| Cable lay up | 4 pairs to the core |
| Sreen | Al-laminated plastic foil and Copper braid, tinned |
| Sheath | LSHF (FRNC, LSOH), grey RAL 7035 |

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| Minimum bending radius | Without load | ≥ 25 mm |
|  | With load | ≥ 50 mm |
| Temperature range | During operation | -20°C up to +60°C |
|  | During installation | 0°C up to +50°C |

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| Loop resistance |  | ≤ 190 Ω/km |
| Resistance unbalance |  | ≤ 2% |
| Insulation resistance | (500 V) | ≥ 2000 MΩ\*km |
| Mutual capacitance | at 800 Hz | Nom. 48 nF/km |
| Capacitance unbalance | (pair/ground) | ≤ 1500 pF/km |
| Mean characteristic impedance | 100 MHz | 100 ± 5 Ω |
| Nominal velocity of propagation |  | ca. 67% |
| Propagation delay |  | ≤ 535 ns/100 m |
| Delay skew |  | ≤ 20 ns/100 m |
| Test voltage | (DC, 1 min) core/core and core/screen | 1000 V |
| Transfer impedance | at 1 MHz | 12 mΩ /m |
|  | at 10 MHz | 10 mΩ /m |
|  | at 30 MHz | 30 mΩ /m |
| Coupling attenuation |  | 80 dB |
| Segregation classification acc. EN 50174-2 |  | "d" |

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| 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 | 6.0 | 56 | 53 | 50.0 | 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 | 29.2 | 35 | 32 | 5.8 | 2.8 | 20 | 17 |  |
| 300.0 | 32.0 | 34 | 31 | 2.0 | -1.0 | 16 | 13 |  |

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| Outerdiameter | 6.4 mm |
| Fire load | 433 MJ/km |
|  | 0.120 kWh/m |
| Weight | 47 kg/km |
| Copper content | 27 |
| Tensile force | 120 N |