Draka - UC FUTURE COMPACT AWG23 Cat.7 S/FTP 6x4P LSHF

\*\*UC FUTURE - Draka Datacom Solution

The solution for Data Centre cabling. A dependable, fast and always available part of Draka Datacom Solution!

For this application Draka has developed the new UCFuture program which contains slim cable designs based on existing work area cable standards, which are perfect for zone cabling in data centres because of these characteristics:

• Up to 100% higher packing density in cable trays

• Fully compliant with established cable standards

• PIMF design to eliminate any Alien-Xtalk interferences

• Full 10GBase-T performance over a channel distance of 70m

\*\*TP Cable

Data centre cabling 10Gbit solution. Pair screened 100 Ohms cable especially for Zone Distribution Area and Equipment Distribution Area.

\*\*TECHNISCHE\_DATEN

Application
IEEE 802.3: 10Base-T; 100Base-T; 10GBase-T, ISDN; xDSL
IEEE 802.5 16 MB; ISDN; TPDDI; ATM155Mbit/s
The conductor diameter is smaller compared to the standard installation cables. This leads to an increased attenuation and therefore the
operating distance is reduced (80 m instead of 90 m installation cable in standard permanent link).

Standards
ISO/IEC 11801 2nd ed.
EN 50173-5
IEC 61156-5
EN 50288-4-1

Flame resistance
LSHF (FRNC): IEC 60332-1; IEC 60754-2; IEC 61034; EN50399: Class Eca

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| Conductor | Bare copper wire, Ø 0.56 mm (AWG23) |
| Insulation | Foam-skin PP, Ø 1.35 mm |
| Twisting | 2 cores to the pair |
| Pair screening | Al-laminated plastic foil |
| Cable lay up | 4x pimf to the core |
| Cable Screen | Tinned copper braid, coverage approx. 35% |
| Sheath | LSHF, orange RAL 2003 |
| Stranding | 0+6 stranded to the cable core, filler in the centre |

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| Minimum bending radius | Installation | 200 mm |
|   | Installed | 100 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 |   | ≤ 176 Ω/km |
| Resistance unbalance |   | ≤ 2% |
| Insulation resistance | 500 V | ≥ 2000 MΩkm |
| Mutual capacitance | at 800 Hz | Nom. 43nF/km |
| Capacitance unbalance | (pair/ground) | ≤ 1500 pF/km |
| Nominal velocity of propagation |   | Ca. 79% |
| Impedance | 100 MHz | 100 Ω± 5 Ω |
| Propagation delay | Nominal | < 450 ns/100m |
| Delay skew | Nominal | < 15 ns/100m |
| Test voltage | (DC, 1 min) core/core and core/screen | 1000 V |
| Coupling attenuation |   | ≥ 85 dB |

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| f MHZ | Atten- uation dB/90m | NEXT dB | PS -NEXT dB | ACR dB/100m | PS-ACR dB/100m | ELFEXT dB/100m | PS- ELFEXT dB/100m | Return loss dB |
| 1.0 | 1.8 | 100 | 97 | 98 | 95 | 105 | 105 | - |
| 4.0 | 3.4 | 100 | 97 | 97 | 94 | 105 | 102 | 27 |
| 10.0 | 5.4 | 100 | 97 | 95 | 92 | 97 | 94 | 30 |
| 16.0 | 6.8 | 100 | 97 | 93 | 90 | 93 | 90 | 30 |
| 20.0 | 7.7 | 100 | 97 | 92 | 89 | 91 | 88 | 30 |
| 31.2 | 9.6 | 100 | 97 | 90 | 87 | 87 | 84 | 30 |
| 62.5 | 13.7 | 100 | 97 | 86 | 83 | 81 | 78 | 30 |
| 100.0 | 17.4 | 100 | 97 | 83 | 80 | 77 | 74 | 30 |
| 125.0 | 19.5 | 95 | 92 | 75 | 72 | 75 | 72 | 26 |
| 155.5 | 21.9 | 94 | 91 | 72 | 69 | 73 | 70 | 26 |
| 175.0 | 23.3 | 93 | 90 | 70 | 67 | 72 | 69 | 25 |
| 200.0 | 25.0 | 92 | 89 | 67 | 64 | 71 | 68 | 25 |
| 250.0 | 28.1 | 90 | 87 | 62 | 59 | 69 | 66 | 24 |
| 300.0 | 30.9 | 89 | 86 | 58 | 55 | 67 | 64 | 24 |
| 400.0 | 38.3 | 87 | 84 | 48 | 45 | 64 | 61 | 23 |
| 500.0 | 43.0 | 86 | 83 | 43 | 40 | 61 | 58 | 22 |
| 600.0 | 44.8 | 85 | 82 | 40 | 37 | 60 | 57 | 22 |

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| Designation | J-02YS(ST)CHH |
| Type | 6x(4x2x0.56) |
| Outer diameter | 25.0 mm |
| Fire load | 4819 MJ/km |
| Fire load | 1.339 kWh/m |
| Weight | 446 kg/km |
| Copper content | 163 kg/km |
| Tensile force | 900 N |