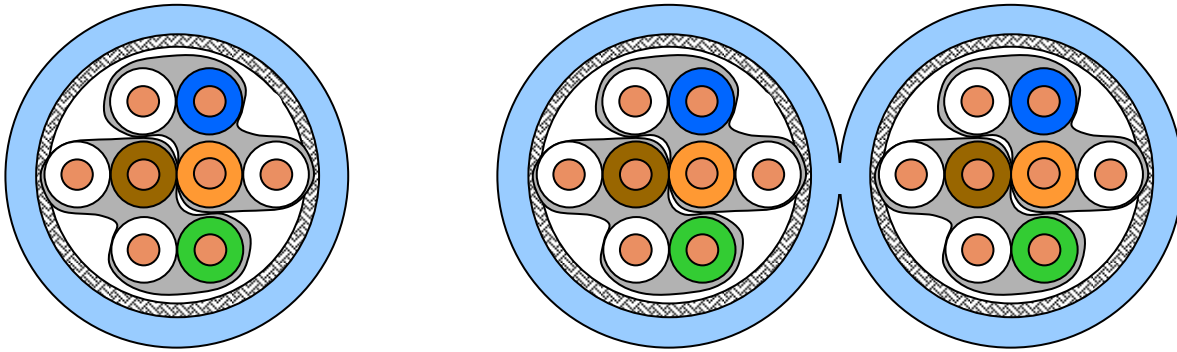


DK4 STX UC500 HS23 Cat.6_A LSHF-FR

S/FTP AWG23/1 Installation Cable



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-5-1
ISO/IEC 11801; IEC 61156-5
TIA/EIA-568-B.2

Flame resistance

LSHF-FR(LSFR0H): additionally IEC 60332-3-24

Construction

| | |
|--------------|---|
| Conductor | bare copper wire Ø 0.56 mm (AWG23/1) |
| Insulation | Foamskin Polyethylene, Ø 1.38 mm |
| Twisting | 2 cores to the pair |
| Pair screen | High Performance-FTP: Al-laminated plastic foil, patented wrapping of two pairs each |
| Cable lay up | 2x2 pairs to the core |
| Screen | Copper braid tinned |
| Sheath | LSHF-FR, blue, RAL 5024 |

Mechanical properties

| | | |
|-------------------|---------------------|-----------------|
| Bending radius | without load | ≥ 40 mm |
| | with load | ≥ 80 mm |
| Temperature range | during operation | -20°C to + 60°C |
| | during installation | 0°C to + 50°C |

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Electrical properties

at 20°C ± 5°C

| | | | |
|--|--|---------------|----------------|
| Loop resistance | | ≤ 165 Ω/km | |
| Resistance unbalance | | ≤ 2% | |
| Insulation resistance | (500 V) | ≥ 2000 MΩ *km | |
| Mutual capacitance | at 800 Hz | Nom. 43 nF/km | |
| Capacitance unbalance | (pair/ground) | ≤ 1500 pF/km | |
| Mean characteristic impedance | at 100 MHz | 100 ± 5 Ω | |
| Nominal velocity of propagation | | ca. 79 % | |
| Propagation delay | | ≤ 427 ns/100m | |
| Delay skew | | ≤ 12 ns/100m | |
| Test voltage | (DC, 1 min) core/ core and core/screen | 1000 V | |
| Transfer impedance | bei 1 MHz | ≤ 12 mΩ /m | Grade 2 |
| | bei 10 MHz | ≤ 10 mΩ /m | |
| | bei 30 MHz | ≤ 30 mΩ /m | |
| Coupling attenuation | | ≥ 75 dB | Type 2 |
| Segregation classification acc. EN 50174-2 | | „c” | |

Electrical data (nominal)

acc. to Cat.6_A (at 20°C)

| F (MHZ) | Attenuation (dB/100m) | NEXT (dB) | PS-NEXT (dB) | ACR (dB/100m) | PS-ACR (dB/100m) | ACRF (dB/100m) | PS-ACRF (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 |

Print legend

DK4 STX SC000060 Cat.6A S/FTP 4p LSHF-FR IEC 60332-3-24 <factory code/batch no./date-time> <meter> m

DK4 STX SC000061 Cat.6A S/FTP 2x4p LSHF-FR IEC 60332-3-24 <factory code/batch no./date-time> <meter> m

DK4 STX UC500 HS23 Cat.6_A LSHF-FR

Technical data

| Product code | Cable type | Brand name | Outer diameter mm | Fire load | | Weight kg/km | Copper content | Tensile force |
|--------------|------------------------------|--|----------------------|-----------|-------|-----------------|----------------|---------------|
| | | | | MJ/km | kWh/m | | | N |
| 60049764 | J-02YS(St)CH 4x2x0.56 | DK4 STX UC500 HS23 Cat.6 _A S/FTP 4P LSHF-FR | 7.6 | 596 | 0.166 | 59.5 | 34 | 160 |
| 60049766 | J-02YS(St)CH 2x(4x2x0.56) | DK4 STX UC500 HS23 Cat.6 _A S/FTP 2x4P LSHF-FR | 7.6/15.4 | 1192 | 0.331 | 119 | 68 | 320 |

Product Code Table

| Product Description | PG Reference Code | PG Part Number |
|--|-------------------|-----------------|
| DK4 STX SC000060 UC500 HS23 C6A S/FTP 4P LSHF-FR | 60049764 | 60049764 |
| DK4 STX SC000060 UC500 HS23 C6A S/FTP 4P LSHF-FR 1000DW | 60049765 | 60049765 |
| DK4 STX SC000061 UC500 HS23 C6A S/FTP 2x4P LSHF-FR | 60049766 | 60049766 |
| DK4 STX SC000061 UC500 HS23 C6A S/FTP 2x4P LSHF-FR 500DW | 60049767 | 60049767 |

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