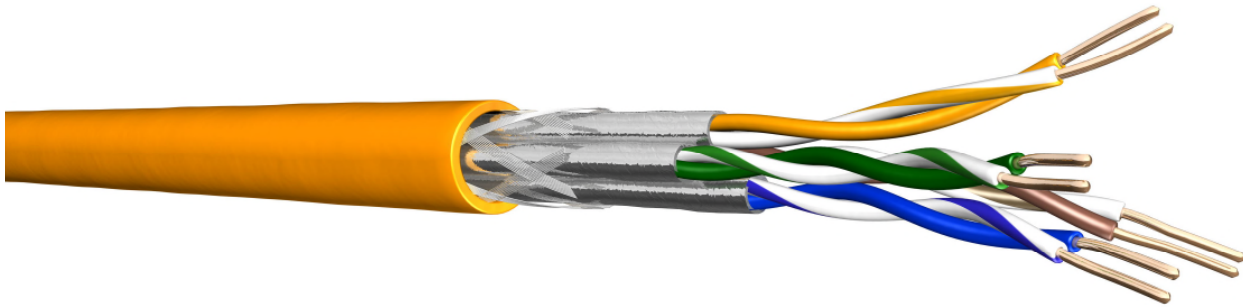


UC900 HS23 Cat.7

S/FTP AWG23/1



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
Power over Ethernet (PoE) / PoE+

Standards

EN 50173-1; EN 50288-4-1
ISO/IEC 11801; IEC 61156-5
IEEE 802.3at

Flame resistance

LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034; Class Eca

Construction

| | | |
|--------------|--------------------------------------|--|
| Conductor | bare copper wire, Ø 0.56 mm (AWG 23) | |
| Insulation | Foamskin PE, Ø 1.38 mm | |
| Twisting | 2 cores to the pair | |
| Pair screen | Al-laminated plastic foil | |
| Cable lay up | 4 pairs (PiMF) to the core | |
| Screen | copper braid, tinned | |
| Sheath | LSHF, orange | |

Mechanical properties

| | | |
|-------------------|---------------------|-----------------|
| Bending radius | without load | 4 x D |
| | with load | 8 x D |
| Temperature range | during operation | -20°C to + 60°C |
| | during installation | 0°C to + 50°C |

UC900 HS23 Cat.7

Electrical properties

at 20°C ± 5°C

| | | | |
|--|---------------------------------------|---------------|----------------|
| Loop resistance | | 154 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 | 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 | | ≥ 80 dB | Type 2 |
| Segregation classification acc. EN 50174-2 | | | „D“ |

Electrical data (nominal)

acc. to Cat.7 (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 |
| 450,0 | 38,3 | 87 | 84 | 48 | 45 | 64 | 61 | 23 |
| 600,0 | 44,8 | 85 | 82 | 40 | 37 | 61 | 58 | 22 |
| 750,0 | 52,0 | 83 | 80 | 31 | 28 | 59 | 56 | 21 |
| 900,0 | 59,4 | 82 | 79 | 23 | 20 | 58 | 55 | 20 |
| 1000,0 | 63,1 | 80 | 77 | 17 | 14 | 57 | 54 | 20 |

UC900 HS23 Cat.7

Product order data

| Product code | Cable type | Brand name | Outer diameter mm | Euro class | Fire load | | Weight kg/km | Copper content | Tensile force N |
|--------------|----------------------------------|-------------------------------------|----------------------|-----------------|-----------|-------|-----------------|----------------|--------------------|
| | | | | | MJ/km | kWh/m | | | |
| 60011263 | J-02YSCH 4x2x0.56 PiMF | UC900 HS23 Cat.7 S/FTP 4P LSHF | 7.3 | E _{ca} | 590 | 0.170 | 54.5 | 26 | 110 |
| 60015444 | J-02YSCH 2x(4x2x0.56) PiMF | UC900 HS23 Cat.7 S/FTP 2x4P LSHF | 7.2/15.0 | E _{ca} | 1190 | 0.345 | 109.2 | 52 | 220 |

Produkt Code Tabelle

| Produkt Beschreibung | PG Referenz Code | PG Artikel Nummer |
|--------------------------------------|------------------|-------------------|
| UC900 HS23 C7 S/FTP 4P LSHF | 60011263 | 60011263 |
| UC900 HS23 C7 S/FTP 4P LSHF 50RW | 60011263 | 60015558 |
| UC900 HS23 C7 S/FTP 4P LSHF 100RW | 60011263 | 60011605 |
| UC900 HS23 C7 S/FTP 4P LSHF 250DW | 60011263 | 60015556 |
| UC900 HS23 C7 S/FTP 4P LSHF 500DW | 60011263 | 60011603 |
| UC900 HS23 C7 S/FTP 4P LSHF 500DP | 60011263 | 60013208 |
| UC900 HS23 C7 S/FTP 4P LSHF 1000DW | 60011263 | 60011604 |
| UC900 HS23 C7 S/FTP 2x4P LSHF | 60015444 | 60015444 |
| UC900 HS23 C7 S/FTP 2x4P LSHF 100DW | 60015444 | 60013181 |
| UC900 HS23 C7 S/FTP 2x4P LSHF 500DW | 60015444 | 60013180 |
| UC900 HS23 C7 S/FTP 2x4P LSHF 1000DW | 60015444 | 60015449 |

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