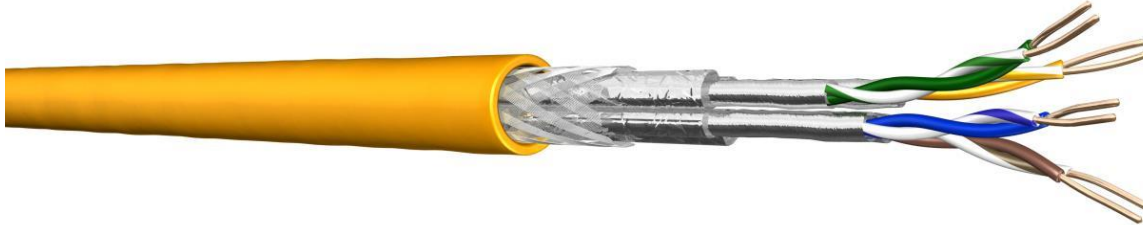


UCMULTIMEDIA 1500 SS23

6FOILS S/FTP AWG23/1



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.5; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
ISDN; TPDDI; ATM, CATV, Broadband Video, SOHO-Cabling
Power over Ethernet (PoE) / PoE+

Standards

EN 50173-1; EN 50288-9-1
ISO/IEC 11801; IEEE 802.3at
IEC 61156-5; IEC61156-7

Certificates



Flame resistance

LSHF-FR(LSFROH): IEC 60754-2; IEC 61034 IEC 60332-1; IEC 60332-3-24

Construction

| | |
|--------------|---|
| Conductor | bare copper wire Ø 0.57 mm (AWG 23/1) |
| Insulation | Foamskin PE, Ø 1.4 mm |
| Twisting | 2 cores to the pair |
| Pair screen | Al-laminated plastic foil, patented wrapping of two pairs each |
| Cable lay up | 2 x 2 pairs to the core |
| Screen | copper braid, tinned |
| Sheath | Halogen free compound (SHF1) according IEC 60092-360 melon yellow RAL 1028 |

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 |

Electrical properties

at 20°C± 5°C

| | | | |
|--|---------------------------------------|---------------|----------------|
| Loop resistance | | ≤ 135 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. 80 % | |
| 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 | ≤ 5 mΩ /m | Grade 1 |
| | bei 10 MHz | ≤ 2 mΩ /m | |
| | bei 30 MHz | ≤ 2 mΩ /m | |
| Coupling attenuation | | ≥ 85 dB | Type 1 |
| Segregation classification acc. EN 50174-2 | | | „d“ |

Electrical data (nominal)

acc. to Cat.7A (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 | 115 | 112 | 113 | 110 | 105 | 102 | - |
| 4.0 | 3.4 | 115 | 112 | 112 | 109 | 105 | 102 | 27 |
| 10.0 | 5.4 | 115 | 112 | 110 | 107 | 97 | 94 | 30 |
| 16.0 | 6.8 | 115 | 112 | 108 | 105 | 93 | 90 | 30 |
| 20.0 | 7.7 | 115 | 112 | 107 | 104 | 91 | 88 | 30 |
| 31.2 | 9.6 | 115 | 112 | 105 | 102 | 87 | 84 | 30 |
| 62.5 | 13.7 | 114 | 111 | 100 | 97 | 81 | 78 | 30 |
| 100.0 | 17.4 | 111 | 108 | 94 | 91 | 77 | 74 | 30 |
| 155.5 | 19.5 | 109 | 106 | 89 | 86 | 75 | 72 | 26 |
| 200.0 | 25.0 | 107 | 104 | 82 | 79 | 71 | 68 | 25 |
| 250.0 | 28.1 | 105 | 102 | 77 | 74 | 69 | 66 | 24 |
| 300.0 | 30.9 | 104 | 101 | 73 | 70 | 67 | 64 | 24 |
| 600.0 | 44.8 | 100 | 97 | 55 | 52 | 61 | 58 | 22 |
| 1000.0 | 58.4 | 96 | 93 | 37 | 34 | 57 | 54 | 19 |
| 1200.0 | 65.2 | 95 | 92 | 30 | 27 | 45 | 42 | |
| 1500.0 | 73.5 | 94 | 91 | 21 | 18 | 43 | 40 | |

Product order data

| Product code | Cable type | Brand name | Outer diameter Mm | Fire load | | Weight kg/km | Copper content | Tensile force |
|--------------|---------------------------|--|----------------------|-----------|-------|-----------------|----------------|---------------|
| | | | | MJ/km | kWh/m | | | N |
| 1001088 | J-02YSCH 4x2x0.57 PiMF | UC MULTIMEDIA 1500 SS23 6F S/FTP 4P LSHF-FR | 7.9 | 642 | 0.178 | 81 | 39 | 340 |

Product Code Table

| Product Description | Product Code | PG Reference Code | PG Part Number |
|--|-----------------|-------------------|----------------|
| UC MM 1500 SS23 6F S/FTP LSHFFR 500DW | 1001088-00500DW | 60011602 | 60011601 |
| UC MM 1500 SS23 6F S/FTP LSHFFR | 1001088 | 60011602 | 60011602 |
| UC MM 1500 SS23 6F S/FTP LSHFFR 100RW | 1001088-00100RW | 60011602 | 60015304 |
| UC MM 1500 SS23 6F S/FTP LSHFFR 1000DW | 1001088-01000DW | 60011602 | 60015307 |