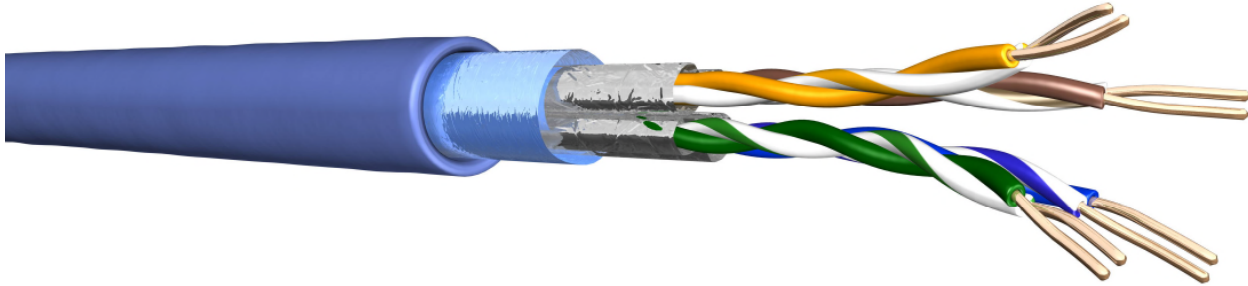


UC400 AS23 F/FTP Cat.6 C_{ca}s1d1a1

F/FTP AWG23/1 Installation 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 50288-5-1
ISO/IEC 11801; IEC 61156-5
TIA/EIA-568-C.2
IEEE 802.3at

Flame resistance

EN 50399: Class Cca s1d1a1
LSHF-FR (LSOH-FR): IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034

Construction

| | |
|--------------|--|
| Conductor | bare copper wire Ø 0.56 mm (AWG23/1) |
| Insulation | Foamskin Polyethylene, Ø 1.35 mm |
| Stranding | 2 cores to the pair |
| Pair screen | High Performance FTP: Al-laminated plastic foil, patented wrapping of two pairs each |
| Cable lay up | 4x2 pairs to the core |
| Screen | Advanced screen: Al-laminated plastic foil, drain wire AWG26 tinned |
| Sheath | LSHF-FR C _{ca} s1d1a1, blue RAL 5012 |

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 |

UC400 AS23 F/FTP Cat.6 C_{ca}s1d1a1

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 | |
| 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 | at 1 MHz | ≤ 20 mΩ /m | Grade 2 |
| | at 10 MHz | ≤ 50 mΩ /m | |
| | at 30 MHz | ≤ 100 mΩ /m | |
| Coupling attenuation | | 55 dB | Type 2 |
| Segregation classification acc. EN 50174-2 | | „C“ | |

Electrical data (nominal)

acc. to Cat.6 (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 |

UC400 AS23 F/FTP Cat.6 C_{ca}S1d1a1

Product order data

| Reference Code | Cable type | Brand name | Outer diameter Mm | Euro Class | Fire load | | Weight kg/km | Copper content | Tensile force |
|----------------|-------------------------|--|----------------------|------------------------|-----------|-------|-----------------|----------------|---------------|
| | | | | | MJ/km | kWh/m | | | N |
| 60061355 | J-02YS(St)H 4x2x0.56 | UC400 AS23 Cat.6 F/FTP C _{ca} S1d1 4P | 8.5 | C _{ca} S1d1a1 | 789 | 0.22 | 76 | 24 | 100 |
| 60061356 | | UC400 AS23 Cat.6 F/FTP C _{ca} S1d1 4P 500m | | | | | | | |