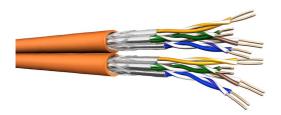


UC900 HS23 Cat.7 S/FTP 2X4P LSHF Dca

Data horizontal cable Cat.7 S/FTP





CABLE FEATURES

Prysmian installation cable for indoor use UC900 HS23 Cat.7 S/FTP 2X4P LSHF Dca

- Copper data cable of Cat.7 for structured cabling with a bandwidth of 1000 MHz.
- The cable is double-shielded with foil pair shielding and high-quality braided cover.
- The 2x4-pair duplex installation cable with 2x8 copper wires AWG23 is suitable for the connection of sockets, patch fields and modules, also with LSA technology, for installation in buildings, in ducts and flush-mounted
- the product exceeds the requirements of EN50173-1; EN50288-4-1, ISO/IEC11801; IEC61156-5 and IEEE802.3af/at/bt.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1; IEC60754-2; IEC61034; EN50399 and Euro fire class Dca s2 d1 a1.
- With a coupling attenuation of 80 dB, the shielding fulfills segregation class D according to EN50174.
- The cable is future-proof for all applications according to Class C, D, E, EA and F and suitable for the operation of PoE and PoE+ over a channel length of up to 100m. It is suitable for the following applications: Telephony, Ethernet, Fast Ethernet, Gigabit Ethernet and 10Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 10GBase-T, 10GBase-T or up to 10,000Mbit/s.

Latest version of this data sheet is available for download: ProductFamily239073

GENERAL INFO

AWG23 Bare copper wire, Al-laminated plastic foil, 2x4 pairs (PiMF) to the core, copper braid-tinned, LSHF sheath, Dca Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3: 10Base-T; 100Base-T; 100Base-T

CERTIFICATIONS AND DESIGN STANDARDS













EN 50288-4-1 IEC 61156-5 ISO/IEC 11801 EN 50173

Datacom cables up to 600 MHz
Datacom cables
Generic telecom cabling for customer premises
Information technology - Generic cabling systems



CABLE CONSTRUCTION(AC)

Conductor categoryClass 1 = solidConductor materialCopperConductor surfaceBareAWG size23

Core insulation material Foam-skin-PE

Nominal diameter over insulation [mm] 1.4
Screen over stranding element Foil
Number of stranding elements 8

Kennzeichnung der Verseilelemente Aderfarben: blau/weiß; orange/weiß; grün/weiß; braun/weiß;

identisch für beide Einzelkabel

Screen material Copper, tinned
Screen over stranding Braiding

Material outer sheath Halogenfree polymer

Cable shapeTwinCable width approx. [mm]14.6Cable height approx. [mm]7.2

APPLICATION PROPERTIES

Operation temperature (min) [°C] -20 (max) [°C] 60 Installation temperature (min) [°C] 0 (max) [°C] 50

Bending radius (rule) Installation: 8 x outer diameter; Installed: 4 x outer diameter

FIRE PROPERTIES

Flame retardant In accordance with EN/IEC 60332-1-2

Halogen free acc. IEC/EN 60754-1/2 Low smoke acc. IEC/EN 61034-2

Reaction-to-fire class (acc. EN 13501-6)

Smoke development class (acc. EN 13501-6)

Euro class flaming droplets/particles (acc. EN 13501-6)

Euro class acidity (acc. EN 13501-6)

Fire load [MJ/km]

DOP number

DO2809



ELECTRICAL PROPERTIES

Test voltage [kV] 1 7 Category NVP value [%] 79 Propagation delay (max) [ns/100m] 427 Delay skew (max) [ns/100m] 12 Characteristic impedance [Ohm] 100 Nominal mutual capacitance [pF/m] 43 Loop resistance [Ohm] 154 Coupling attenuation [dB] 80 Insulation resistance [M Ω ·km] 5,000 Transfer impedance at 10 MHz [mOhm/m] 10 Segregation classification (acc. EN 50174-2) d

CAT.7 TRANSMISSION CHARACTERISTICS (AT 20°C)

| Frequency (MHz) | Attenuation (dB/100 m) | NEXT (dB) | PS-NEXT (dB) | ACR (dB/100 m) | PS-ACR (dB/100 m) | ACRF (dB/100m) | PS-ACRF (dB) | Return Loss (dB) |
|--------------------|---------------------------|--------------|--------------|-------------------|----------------------|-------------------|-----------------|---------------------|
| 1 | 1.8 | 100 | 97 | 98 | 95 | 105 | 102 | - |
| 4 | 3.3 | 100 | 97 | 97 | 94 | 105 | 102 | 27 |
| 10 | 5.2 | 100 | 97 | 95 | 92 | 97 | 94 | 30 |
| 16 | 6.6 | 100 | 97 | 93 | 90 | 93 | 90 | 30 |
| 20 | 7.4 | 100 | 97 | 93 | 90 | 91 | 88 | 30 |
| 31.2 | 9.3 | 100 | 97 | 91 | 88 | 87 | 84 | 30 |
| 62.5 | 13.4 | 100 | 97 | 87 | 84 | 81 | 78 | 30 |
| 100 | 17.2 | 100 | 97 | 83 | 80 | 77 | 74 | 30 |
| 125 | 19.4 | 95 | 92 | 76 | 73 | 75 | 72 | 26 |
| 155.5 | 21.8 | 94 | 91 | 72 | 69 | 73 | 70 | 26 |
| 175 | 23.3 | 93 | 90 | 70 | 67 | 72 | 69 | 25 |
| 200 | 25.1 | 92 | 89 | 67 | 64 | 71 | 68 | 25 |
| 250 | 28.4 | 90 | 87 | 62 | 59 | 69 | 66 | 24 |
| 300 | 31.4 | 89 | 86 | 58 | 55 | 67 | 64 | 24 |
| 450 | 39.5 | 87 | 84 | 48 | 45 | 64 | 61 | 23 |
| 600 | 46.6 | 85 | 82 | 38 | 35 | 61 | 58 | 22 |
| 750 | 53.2 | 83 | 80 | 30 | 27 | 59 | 56 | 21 |
| 900 | 59.2 | 82 | 79 | 23 | 20 | 58 | 55 | 20 |
| 1000 | 63.1 | 81 | 78 | 18 | 15 | 57 | 54 | 20 |



PRODUCT ORDER DATA

| Product name | Max. tensile strength during installation [kN] | Copper weight [kg/km] | SAP code | Packaging type | Standard packaging quantity | Gross weight |
|--------------------------------------|---|-----------------------------|----------|-------------------|-----------------------------------|-----------------|
| UC900 HS23 Cat.7 S/FTP 2X4P LSHF Dca | 0.3 | 52 | 60091276 | Drum | 100 | |
| UC900 HS23 Cat.7 S/FTP 2X4P LSHF Dca | 0.3 | 52 | 60060189 | Drum | 500 | 56.11 |

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