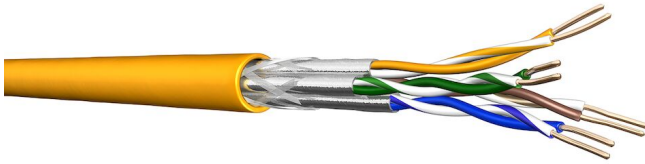


# UC1200 HS23 Cat.7A S/FTP 4P LSHF D<sub>ca</sub>

Data horizontal cable Cat.7A S/FTP 4F



## CABLE FEATURES

Prysmian installation cable for indoor use UC1200 HS23 Cat.7A S/FTP 4P LSHF Dca

- Copper data cable of Cat.7A for structured cabling with a bandwidth of 1200 MHz.
- The cable is double-shielded with foil pair shielding and high-quality braided cover.
- The 4-pair simplex installation cable with 8 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 mounting
- the product exceeds the requirements of EN50173-1; EN50288-9-1, 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 s2d1a1.
- 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, F and FA and suitable for operating 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, 1GBase-T, 10GBaseT or up to 10,000Mbit/s.

Latest version of this data sheet is available for download: [ProductFamily254084](#)

## GENERAL INFO

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
 IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE 802.5  
 ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling  
 Power over Ethernet (PoE) / Type 1-4

## CERTIFICATIONS AND DESIGN STANDARDS



# RoHS



**IEC 61156-5**  
**ISO/IEC 11801**  
**IEEE 802.3 af/at/bt**

**EN 50288-9-1**  
**EN 50173**  
**IEC 60332-1-2**  
**IEC 60754-2**  
**IEC 61034-2**

Datcom cables  
 Generic telecom cabling for customer premises  
 Power over Ethernet (PoE) / Type 1-4 according to IEEE 802.3 af/at/bt  
 Data communications cable shielded up to 1000 MHz  
 Information technology - Generic cabling systems  
 Single wire fire test  
 Weighted Values of pH and Conductivity  
 Smoke Density

## CABLE CONSTRUCTION

|                                       |   |
|---------------------------------------|---|
| Conductor category                    | Class 1 = solid   |
| Conductor material                    | Copper  |
| Conductor surface                     | Bare  |
| AWG size                              | 23  |
| Core insulation material              | Foam-skin-PE  |
| Nominal diameter over insulation [mm] | 1.4   |
| Screen over stranding element         | Foil  |
| Number of stranding elements          | 4   |
| Identification of stranding elements  | Core colors: blue/white; orange/white; green/white; brown/white |
| Screen material                       | Copper, tinned  |
| Screen over stranding                 | Braiding  |
| Material outer sheath                 | Halogenfree polymer   |
| Cable shape                           | Round   |
| Nominal outer diameter [mm]           | 7.5   |

## 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<br>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)                | Dca                                 |
| Smoke development class (acc. EN 13501-6)               | s2                                  |
| Euro class flaming droplets/particles (acc. EN 13501-6) | d1                                  |
| Euro class acidity (acc. EN 13501-6)                    | a1                                  |
| Fire load [MJ/km]                                       | 582                                 |
| DOP number  | 1011473                             |

## ELECTRICAL PROPERTIES

|  |          |
|--|----------|
| Test voltage [kV]                            | 1        |
| Category                                     | 7A (IEC) |
| 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]                        | 135      |
| Coupling attenuation [dB]                    | 80       |
| Insulation resistance [ $M\Omega \cdot km$ ] | 5,000    |
| Transfer impedance at 10 MHz [mOhm/m]        | 10       |
| Segregation classification (acc. EN 50174-2) | d        |

## PRODUCT ORDER DATA

| Product name                  | Nominal outer diameter [mm] | Max. tensile strength during installation [kN] | Copper weight [kg/km] | SAP code | Packaging type | Standard packaging quantity | Gross weight |
|-------------------------------|-----------------------------|--|-----------------------|----------|----------------|-----------------------------|--------------|
| UC1200 HS23 C7A S/FTP 4P LSHF | 7.5                         | 0.11   | 28                    | 60088595 | Drum           | 1                           |              |
| UC1200 HS23 C7A S/FTP 4P LSHF | 7.5                         | 0.11   | 28                    | 60088518 | Drum           | 500                         |              |
| UC1200 HS23 C7A S/FTP 4P LSHF | 7.5                         | 0.11   | 28                    | 60088364 | Drum           | 1,000                       |              |

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## CAT 7A 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          | 22               |
| 4               | 3.4                    | 100       | 97           | 97             | 94                | 93             | 90           | 23               |
| 10              | 5.4                    | 100       | 97           | 95             | 92                | 85             | 82           | 23               |
| 16              | 6.8                    | 100       | 97           | 93             | 90                | 81             | 78           | 28               |
| 20              | 7.6                    | 100       | 97           | 92             | 89                | 79             | 76           | 28               |
| 31.2            | 9.6                    | 100       | 97           | 90             | 87                | 75             | 72           | 27               |
| 62.5            | 13.6                   | 100       | 97           | 86             | 83                | 69             | 66           | 25               |
| 100             | 17.3                   | 100       | 97           | 83             | 80                | 65             | 62           | 23               |
| 125             | 19.3                   | 95        | 92           | 76             | 73                | 63             | 60           | 22               |
| 155.5           | 21.6                   | 94        | 91           | 72             | 69                | 61             | 58           | 22               |
| 175             | 23                     | 93        | 90           | 70             | 67                | 60             | 57           | 21               |
| 200             | 24.6                   | 92        | 89           | 67             | 64                | 59             | 56           | 21               |
| 250             | 27.6                   | 90        | 87           | 62             | 59                | 57             | 54           | 20               |
| 300             | 30.4                   | 89        | 86           | 59             | 56                | 56             | 53           | 20               |
| 450             | 37.6                   | 87        | 84           | 49             | 46                | 52             | 49           | 19               |
| 600             | 43.7                   | 85        | 82           | 41             | 38                | 50             | 47           | 18               |
| 750             | 49.2                   | 83        | 80           | 34             | 31                | 48             | 45           | 19               |
| 900             | 54.2                   | 82        | 79           | 28             | 25                | 46             | 43           | 19               |
| 1000            | 57.3                   | 81        | 78           | 24             | 21                | 45             | 42           | 18               |
| 1200            | 63.2                   | 80        | 77           | 17             | 14                | 44             | 41           | 17               |