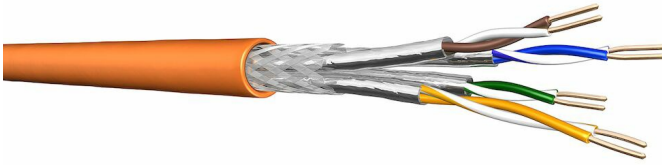


## UC900 SS23 CAT.7 S/FTP 4P LSHF-FR C<sub>CA</sub>

Data horizontal cable Cat.7 S/FTP



### CABLE FEATURES

Draka installation cable for indoor use UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca

- 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 4-pair simplex installation cable with 8 copper wires AWG23 is suitable for the connection of sockets, patch fields and modules, also with IDC technology, for installation in buildings, in ducts and flush mounting
- 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; IEC60332-3-24; IEC60754-2; IEC61034, EN50399 especially for use in public buildings with high personal risk, in the Euro fire class Cca s1a d1 a1.
- With a coupling attenuation of 85 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, 1GBase-T, 10GBaseT or up to 10,000Mbit/s.

Latest version of this data sheet is available for download: [ProductFamily359470\\_en.pdf](#)

### GENERAL INFO

Primary (Campus), Secondary (Riser), Tertiary (Horizontal); IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE802.5 ; ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling; Power over Ethernet (PoE) / Type 1-4

### CERTIFICATIONS AND DESIGN STANDARDS



IEC 61156-5  
EN 50288-4-1  
ISO/IEC 11801  
EN 50173  
EN 50399

Datacom cables  
Datacom cables up to 600 MHz  
Generic telecom cabling for customer premises  
Information technology - Generic cabling systems  
Common test methods for cables under fire conditions

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## 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]           | 7.3                                                             |

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## APPLICATION PROPERTIES

|                                                                                 |                                                                 |            |    |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------|------------|----|
| Permitted cable outer temperature after assembling without vibration (min) [°C] | -20                                                             | (max) [°C] | 60 |
| Permitted cable outer temperature during assembling/handling (min) [°C]         | 0                                                               | (max) [°C] | 50 |
| Bending radius (rule)                                                           | Installation: 8 x outer diameter; Installed: 4 x outer diameter |            |    |

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## FIRE PROPERTIES

|                                                         |                                      |
|---------------------------------------------------------|--------------------------------------|
| Flame retardant                                         | In accordance with EN/IEC 60332-3-24 |
| Halogen free                                            | acc. IEC/EN 60754-1/2                |
| Low smoke                                               | acc. IEC/EN 61034-2                  |
| Reaction-to-fire class (acc. EN 13501-6)                | Cca                                  |
| Smoke development class (acc. EN 13501-6)               | s1a                                  |
| Euro class flaming droplets/particles (acc. EN 13501-6) | d1                                   |
| Euro class acidity (acc. EN 13501-6)                    | a1                                   |
| Fire load [MJ/km]                                       | 590                                  |
| DOP number                                              | 1003793                              |

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## ELECTRICAL PROPERTIES

|                                              |       |
|----------------------------------------------|-------|
| Test voltage [kV]                            | 1     |
| Category                                     | 7     |
| 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]                    | 85    |
| Insulation resistance [MΩ·km]                | 5,000 |
| Transfer impedance at 10 MHz [mOhm/m]        | 5     |
| 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                          | Nominal outer diameter | Max. tensile strength during installation | Copper weight | SAP code | Packaging type             | Standard packaging quantity | Gross weight |
|---------------------------------------|------------------------|-------------------------------------------|---------------|----------|----------------------------|-----------------------------|--------------|
| UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca | 7.3                    | 0.15                                      | 38            | 60060629 | Drum                       | 1,000                       | 63.4         |
| UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca | 7.3                    | 0.15                                      | 38            | 60091660 | Drum (non-standard length) | 1                           |              |
| UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca | 7.3                    | 0.15                                      | 38            | 60091661 | Coil                       | 100                         | 6.7          |
| UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca | 7.3                    | 0.15                                      | 38            | 60091662 | Coil                       | 200                         | 13.4         |
| UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca | 7.3                    | 0.15                                      | 38            | 60091664 | Drum                       | 250                         | 17.5         |
| UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca | 7.3                    | 0.15                                      | 38            | 60091665 | Carton box                 | 250                         | 17.2         |
| UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca | 7.3                    | 0.15                                      | 38            | 60091666 | Drum                       | 4,000                       | 310          |
| UC900 SS23 Cat.7 S/FTP 4P LSHF-FR Cca | 7.3                    | 0.15                                      | 38            | 60091940 | Drum                       | 500                         | 38           |

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