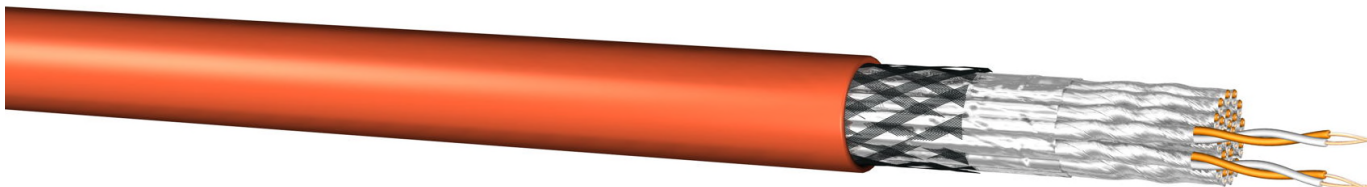


# UC<sup>FUTURE</sup> COMPACT<sup>2D</sup> 26 Cat.7 S/FTP 24P LSHF-FR

## S/FTP Data Centre Cable Cat. 7 AWG26/1



### Application

IEEE 802.3: 10Base-T; 100Base-T; 10GBase-T, ISDN; xDSL

IEEE 802.5 16 MB; ISDN; TPDDI; ATM155Mbit/s

PoE, PoE+

The conductor diameter is smaller compared to the standard installation cables. This leads to an increased attenuation and therefore the operating distance is reduced (60 m instead of 90 m installation cable in standard permanent link).

### Standards

IEC 61156-6 work area cable

ISO/IEC 11801

EN 50173-5; EN 50288-4-2

IEEE 802.3af

### Flame resistance

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

### Construction

|                |                                                                                                    |
|----------------|----------------------------------------------------------------------------------------------------|
| Conductor      | Bare copper wire, diameter 0.4 mm (AWG26/1)                                                        |
| Insulation     | Foam-skin PP, diameter 1.0 mm                                                                      |
| Twisting       | 2 insulated wires to the pair                                                                      |
| Pair screening | Pet-Al foil around each pair                                                                       |
| Stranding      | 6 (5+1) bundles with 4 foiled pairs bl, or, gn, br                                                 |
|                | Coloured tapes are around each bundle                                                              |
| Screen         | Tinned copper braid 85% coverage                                                                   |
| Sheath         | LSHF-FR, diameter 13.9 mm                                                                          |
| Printing       | DRAKA UC <sup>FUTURE</sup> COMPACT <sup>2D</sup> 26 Cat.7 S/FTP 24P + batch number + meter marking |

### Mechanical properties

|                        |                     |                    |
|------------------------|---------------------|--------------------|
| Minimum bending radius | Without load        | ≥ 55 mm            |
|                        | With load           | ≥ 110 mm           |
| Temperature range      | During operation    | -20°C up to +60°C* |
|                        | During installation | 10°C up to +40°C   |

# UC<sup>FUTURE</sup> COMPACT<sup>ZD</sup> 26 Cat.7 S/FTP 24P LSHF-FR

## Electrical properties

at 20°C

|                                            |             |                            |
|--------------------------------------------|-------------|----------------------------|
| Loop resistance                            |             | ≤ 280 Ω/km                 |
| Resistance unbalance                       |             | ≤ 2%                       |
| Test voltage                               | core/core   | 1000 V <sub>DC</sub> 1 min |
|                                            | core/screen | 1000 V <sub>DC</sub> 1 min |
| Capacitance                                | 800 Hz      | nom. 44 nF/km              |
| Capacitance unbalance                      |             | ≤ 1600 pF/km               |
| Mean characteristic impedance              | 100 MHz     | 100 Ω ± 5 Ω                |
| Nominal velocity of propagation            |             | ca. 76%                    |
| Insulation resistance                      | 500 V       | ≥ 2000 MΩkm                |
| Transfer impedance                         | bei 1 MHz   | ≤ 5 mΩ /m                  |
|                                            | bei 10 MHz  | ≤ 5 mΩ /m                  |
|                                            | bei 30 MHz  | ≤ 10 mΩ /m                 |
| Coupling attenuation                       |             | ≥ 85 dB                    |
| Segregation classification acc. EN 50174-2 |             | „D”                        |

## Electrical Data (nominal)

acc. to Cat.7 (at 20°C)

| f (MHZ) | Attenuation (dB/10m) | NEXT (dB) | PS-NEXT (dB) | ACRF (dB/100m) | PS- ACRF (dB/100m) | Return loss (dB) |
|---------|----------------------|-----------|--------------|----------------|--------------------|------------------|
| 1,0     | 0,3                  | 90        | 87           | 80             | 77                 | 23               |
| 4,0     | 0,6                  | 90        | 87           | 80             | 77                 | 24               |
| 10,0    | 1,0                  | 90        | 87           | 80             | 77                 | 25               |
| 16,0    | 1,3                  | 90        | 87           | 76             | 73                 | 25               |
| 20,0    | 1,4                  | 90        | 87           | 74             | 71                 | 25               |
| 31,2    | 1,8                  | 90        | 87           | 70             | 67                 | 25               |
| 62,5    | 2,6                  | 90        | 87           | 64             | 61                 | 23               |
| 100,0   | 3,2                  | 87        | 84           | 60             | 57                 | 21               |
| 125,0   | 3,6                  | 85        | 82           | 58             | 55                 | 20               |
| 155,5   | 4,0                  | 84        | 81           | 56             | 53                 | 19               |
| 175,0   | 4,3                  | 83        | 80           | 55             | 52                 | 19               |
| 200,0   | 4,6                  | 82        | 79           | 54             | 51                 | 18               |
| 250,0   | 5,1                  | 81        | 78           | 52             | 49                 | 18               |
| 300,0   | 5,6                  | 80        | 77           | 50             | 47                 | 17               |
| 450,0   | 6,9                  | 77        | 74           | 47             | 44                 | 17               |
| 600,0   | 7,9                  | 75        | 72           | 44             | 41                 | 17               |

## Product order data

| Product Reference Code | Designation  | Type                                                              | Outer diameter<br>mm | Euro Class | Fire load |           | Weight<br>kg/km | Copper content<br>kg/km | Tensile force<br>N |
|------------------------|--------------|-------------------------------------------------------------------|----------------------|------------|-----------|-----------|-----------------|-------------------------|--------------------|
|                        |              |                                                                   |                      |            | MJ/k<br>m | kWh/<br>m |                 |                         |                    |
| 60013688               | J-09YS(St)CH | UC <sup>FUTURE</sup><br>COMPACTZD26<br>Cat.7 S/FTP 24P<br>LSHF-FR | 13.9                 | Dca        | 2.171     | 0,603     | 205             | 90                      | 500                |

**UC<sup>FUTURE</sup> COMPACT<sup>ZD</sup> 26 Cat.7 S/FTP 24P LSHF-FR****Product Code Table**

| Product Description                                                   | PG Reference Code | PG Part Number |
|-----------------------------------------------------------------------|-------------------|----------------|
| UC <sup>FUTURE</sup> COMPACT <sup>ZD</sup> 26 Cat.7 S/FTP 24P LSHF-FR | 60013688          | 60013688       |

\* POE, reduce temperature range

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