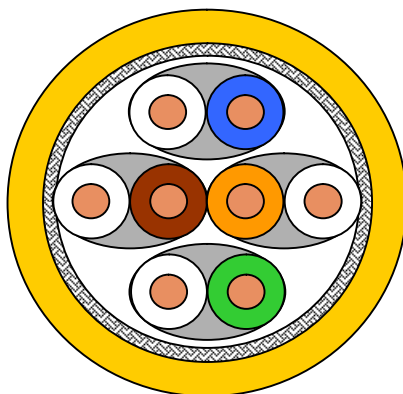




## UC1200 HS23 Cat.7+

### S/FTP



### Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.5; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T  
ISDN; TPDDI; ATM, CATV, Broadband Video, SOHO-Cabling

### Standards

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

### Flame resistance

LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034

### Construction

|              |                                     |
|--------------|-------------------------------------|
| Conductor    | bare copper wire Ø 0.57 mm (AWG 23) |
| Insulation   | Foamskin Polyethylene, Ø 1.4 mm     |
| Twisting     | 2 cores to the pair                 |
| Pair screen  | Al-laminated plastic foil           |
| Cable lay up | 4 pairs to the core                 |
| Screen       | Copper braid, tinned                |
| Sheath       | LSHF, melon yellow RAL 1028         |



## UC1200 HS23 Cat.7+

### Mechanical properties

|                   |                     |                 |
|-------------------|---------------------|-----------------|
| Bending radius    | without load        | ≥ 35 mm         |
|                   | with load           | ≥ 70 mm         |
| Temperature range | during operation    | -20°C to + 60°C |
|                   | during installation | 0°C to + 50°C   |

### Electrical properties

at 20°C ± 5°C

|                                 |                                       |               |
|---------------------------------|---------------------------------------|---------------|
| Loop resistance                 |                                       | ≤ 135 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  |
| Characteristic impedance        | (1-100 MHz)                           | (100 ± 15) Ω  |
| 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     |
|                                 | at 10 MHz                             | ≤ 30 mΩ/m     |
|                                 | at 30 MHz                             | ≤ 40 mΩ/m     |
|                                 | at 100 MHz                            | ≤ 200 mΩ/m    |

### Electrical data (nominal)

acc. to Cat.7 (at 20°C)

| F (MHZ) | Attenuation (dB/100m) | NEXT (dB) | PS-NEXT (dB) | ACR (dB/100m) | PS-ACR (dB/100m) | ELFEXT (dB/100m) | PS-ELFEXT (dB/100m) | Return loss (dB) |
|---------|-----------------------|-----------|--------------|---------------|------------------|------------------|---------------------|------------------|
| 1,0     | 1,8                   | 100       | 97           | 98            | 95               | 105              | 103                 | 20               |
| 4,0     | 3,4                   | 100       | 97           | 97            | 94               | 93               | 91                  | 23               |
| 10,0    | 5,4                   | 100       | 97           | 95            | 92               | 85               | 83                  | 25               |
| 16,0    | 6,8                   | 100       | 97           | 93            | 90               | 81               | 79                  | 25               |
| 20,0    | 7,7                   | 100       | 97           | 92            | 89               | 79               | 77                  | 25               |
| 31,2    | 9,6                   | 100       | 97           | 90            | 87               | 75               | 73                  | 24               |
| 62,5    | 13,7                  | 100       | 97           | 86            | 83               | 69               | 67                  | 22               |
| 100,0   | 17,4                  | 100       | 97           | 83            | 80               | 65               | 63                  | 20               |
| 125,0   | 18,6                  | 95        | 92           | 76            | 73               | 63               | 61                  | 19               |
| 155,5   | 19,5                  | 95        | 92           | 75            | 69               | 61               | 59                  | 19               |
| 175,0   | 22,1                  | 92        | 89           | 70            | 67               | 60               | 58                  | 18               |
| 200,0   | 25,0                  | 92        | 89           | 67            | 64               | 59               | 57                  | 18               |
| 250,0   | 28,1                  | 90        | 87           | 62            | 59               | 57               | 55                  | 17               |
| 300,0   | 30,9                  | 89        | 86           | 58            | 55               | 55               | 53                  | 17               |
| 450,0   | 37,4                  | 87        | 84           | 50            | 47               | 52               | 50                  | 17               |
| 600,0   | 44,8                  | 85        | 82           | 40            | 37               | 49               | 47                  | 17               |
| 1000,0  | 58,4                  | 82        | 79           | 24            | 21               | 45               | 43                  |                  |
| 1200,0  | 65,2                  | 82        | 79           | 17            | 17               | 43               | 41                  |                  |



## UC1200 HS23 Cat.7+

### Technical data

| Product code | Cable type                | Brand name                         | Outer diameter | Fire load |       | Weight | Copper content | Tensile force |
|--------------|---------------------------|------------------------------------|----------------|-----------|-------|--------|----------------|---------------|
|              |                           |                                    | mm             | MJ/km     | kWh/m | kg/km  |                | N             |
| DCD10676     | J-02YSCH 4x2x0.57<br>PiMF | UC1200 HS23Cat.7+<br>S/FTP 4P LSHF | 7.5            | 642       | 0.178 | 66     | 28             | 110           |