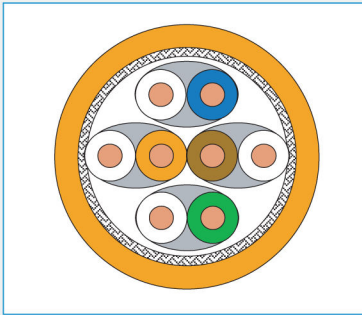


# UC900 SS23 Cat.7 S/FTP

Standard, Solid, LSZH



## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T  
IEEE 802.5 16 MB; ISDN; TPDDI; ATM  
Power over Ethernet (PoE) / PoE+

## Standards

EN 50173-1; EN 50288-4-1  
ISO/IEC 11801; IEC 61156-5  
IEEE 802.3af

## Flame resistance

LSZH IEC 60332-1; IEC 60754;  
IEC 61034  
LSFRZH IEC 60332-3-24

## Construction

|                     |   |
|---------------------|---|
| <b>Conductor</b>    | Bare copper wire, $\emptyset$ 0.56 mm (AWG23/1) |
| <b>Insulation</b>   | Foamskin PE, $\emptyset$ 1.38 mm                |
| <b>Twisting</b>     | 2 cores to the pair                             |
| <b>Pair screen</b>  | Al-laminated plastic foil                       |
| <b>Cable lay up</b> | 4 pairs (PIMF) to the core                      |
| <b>Screen</b>       | copper braid, tinned                            |
| <b>Sheath</b>       | LSZH or LSFRZH, orange                          |

## Mechanical properties

|                          |                     |                |
|--------------------------|---------------------|----------------|
| <b>Bending radius</b>    | without load        | $\geq 30$ mm   |
|                          | with load           | $\geq 60$ mm   |
| <b>Temperature range</b> | during operation    | -20°C to +60°C |
|                          | during installation | 0°C to +50°C   |

## Electrical properties at 20°C $\pm$ 5°C

|   |                                       |                            |         |
|---|---------------------------------------|----------------------------|---------|
| <b>Loop resistance</b>                            |                                       | $\leq 165$ $\Omega$ /km    |         |
| <b>Resistance unbalance</b>                       |                                       | $\leq 2\%$                 |         |
| <b>Insulation resistance</b>                      | (500 V)                               | $\geq 2000$ M $\Omega$ *km |         |
| <b>Mutual capacitance</b>                         | at 800 Hz                             | Nom. 43 nF/km              |         |
| <b>Capacitance unbalance</b>                      | (pair/ground)                         | $\leq 1500$ pF/km          |         |
| <b>Mean characteristic impedance</b>              | (1-100 MHz)                           | (100 $\pm$ 5) $\Omega$     |         |
| <b>Nominal velocity of propagation</b>            |                                       | ca. 79 %                   |         |
| <b>Propagation delay</b>                          |                                       | $\leq 427$ ns/100m         |         |
| <b>Delay skew</b>                                 |                                       | $\leq 12$ ns/100m          |         |
| <b>Test voltage</b>                               | (DC, 1 min) core/core and core/screen | 1000 V                     |         |
| <b>Transfer impedance</b>                         | bei 1 MHz                             | $\leq 12$ m $\Omega$ /m    | Grade 1 |
|   | bei 10 MHz                            | $\leq 10$ m $\Omega$ /m    | Grade 1 |
|   | bei 30 MHz                            | $\leq 30$ m $\Omega$ /m    | Grade 1 |
| <b>Coupling attenuation</b>                       |                                       | $\geq 80$ dB               | Type 1  |
| <b>Segregation classification acc. EN 50174-2</b> |                                       |                            | „D“     |

## Ordering Information

| SAP IC   | UC P/N | Product Description   | P.U       |
|----------|--------|---|-----------|
| 60011543 | 72075  | UC 900 SS23 Cat.7 S/FTP, Individual pair foil, copper braid, LSZH   | 500m/reel |
| 60015274 | 72048  | UC 900 SS23 Cat.7 S/FTP, Individual pair foil, copper braid, LSFRZH | 500m/reel |