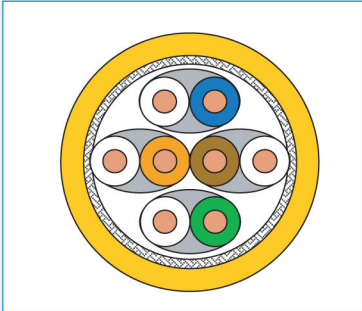


# UC1500 SS22 Cat.7<sub>A</sub> S/FTP

Standard, Solid, LSZH



## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE 802.5  
ISDN, TPDDI, ATM, CATV, Broad-band Video, SOHO-Cabling  
Power over Ethernet (PoE) / PoE+

## Standards

EN 50173-1; ISO/IEC 11801;  
EN 50288-9-1; IEC61156-5;  
IEC61156-7; IEEE 802.3at

## Flame resistance

LSFRZH IEC 60332-3-24

## Construction

|                     |  |
|---------------------|--|
| <b>Conductor</b>    | Bare copper wire $\varnothing$ 0.64 mm (AWG22/1)                               |
| <b>Insulation</b>   | PE, $\varnothing$ 1.6 mm   |
| <b>Twisting</b>     | 2 cores to the pair  |
| <b>Pair screen</b>  | 4 pairs  |
| <b>Cable lay up</b> | Al-laminated plastic foil around each pair                                     |
| <b>Screen</b>       | Copper braid, tinned $\varnothing$ 7,0mm                                       |
| <b>Sheath</b>       | Halogen free, fire retardant sheathing material; LSFRZH, melon yellow RAL 1028 |

## Mechanical properties

|                          |                     |                 |
|--------------------------|---------------------|-----------------|
| <b>Bending radius</b>    | without load        | 4 x D           |
|                          | with load           | 8 x D           |
| <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>                            |               | $\leq$ 110 $\Omega$ /km    |         |
| <b>Resistance unbalance</b>                       |               | $\leq$ 2%                  |         |
| <b>Insulation resistance</b>                      | (500 V)       | $\geq$ 5000 M $\Omega$ *km |         |
| <b>Mutual capacitance</b>                         | at 800 Hz     | Nom. 43 nF/km              |         |
| <b>Capacitance unbalance</b>                      | (pair/ground) | $\leq$ 1200 pF/km          |         |
| <b>Mean characteristic impedance</b>              | @ 100 MHz     | 100 $\pm$ 5 $\Omega$       |         |
| <b>Nominal velocity of propagation</b>            |               | 79 %                       |         |
| <b>Propagation delay</b>                          |               | 450 ns/100m                |         |
| <b>Delay skew</b>                                 |               | 15 ns/100m                 |         |
| <b>Transfer impedance</b>                         | bei 1 MHz     | $\leq$ 5 m $\Omega$ /m     | Grade 1 |
|   | bei 10 MHz    | $\leq$ 5 m $\Omega$ /m     | Grade 1 |
|   | bei 30 MHz    | $\leq$ 10 m $\Omega$ /m    | Grade 1 |
| <b>Coupling attenuation</b>                       |               | $\geq$ 85 dB               | Type 1  |
| <b>Segregation classification acc. EN 50174-2</b> |               |                            | „D“     |

## Ordering Information

| SAP IC   | UC P/N | Product Description   | P.U       |
|----------|--------|---|-----------|
| 60015807 | 94048  | UC 1500 SS22 Cat.7A S/FTP, Individual pair foil, copper braid, LSFRZH | 500m/reel |