

# UC1500 HS22 Cat.7<sub>A</sub> S/FTP

Standard, Solid, LSZH

## Construction

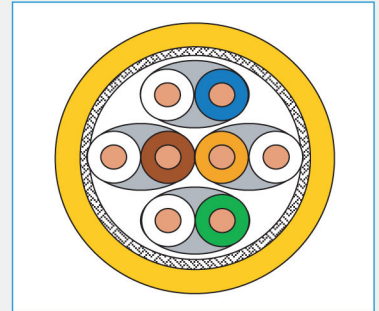
<b>Conductor</b>	Bare copper wire Ø 0.62 mm (AWG22/1)
<b>Insulation</b>	Foam-Skin Polyethylene, Ø 1.5 mm
<b>Twisting</b>	2 cores to the pair
<b>Pair screen</b>	Al-laminated plastic foil around each pair
<b>Cable lay up</b>	4 pairs
<b>Screen</b>	Copper braid, tinned
<b>Sheath</b>	Halogen free, flame or fire retardant sheathing material; LSZH melon yellow RAL 1028 Duplex design with divider

## Mechanical properties

<b>Bending radius</b>	without load	≥ 30 mm
	with load	≥ 70 mm
<b>Temperature range</b>	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

## Electrical properties at 20°C ± 5°C

<b>Loop resistance</b>		≤ 128 Ω/km	
<b>Resistance unbalance</b>		≤ 2%	
<b>Insulation resistance</b>	(500 V)	≥ 5000 MΩ*km	
<b>Mutual capacitance</b>	at 800 Hz	Nom. 43 nF/km	
<b>Capacitance unbalance</b>	(pair/ground)	≤ 1500 pF/km	
<b>Characteristic impedance</b>	@ 100 MHz	100 ± 5 Ω	
<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	≤ 12 mΩ /m	Grade 2
	bei 10 MHz	≤ 10 mΩ /m	Grade 2
	bei 30 MHz	≤ 30 mΩ /m	Grade 2
<b>Coupling attenuation</b>		≥ 80 dB	Type 2
<b>Segregation classification acc. EN 50174-2</b>		„D“	



## 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  
Power over Ethernet (PoE) / PoE+

## Standards

EN 50173-1; ISO/IEC 11801;  
IEC61156-5; EN50288-9-1; IEEE 802.3at

## Flame resistance

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

## Ordering Information

SAP IC	UC P/N	Product Description	P.U
60022022	97075	UC 1500 HS22 Cat.7A S/FTP, Individual pair foil, copper braid, LSZH	500m/reel
60013297	97048	UC 1500 HS22 Cat.7A S/FTP, Individual pair foil, copper braid, LSRZH	500m/reel