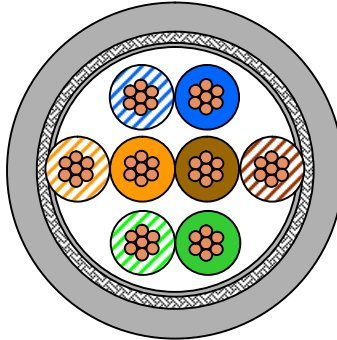




## UC300 HS26 Cat.5e

### SF/UTP Patch Cable



### Application

Work area and patch cord cable  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;  
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

### Standards

EN 50173-1; EN 50288-2-2  
ISO/IEC 11801; IEC 61156-6  
TIA/EIA-568-B.2

### Flame resistance

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

### Construction

Conductor	stranded bare copper wire $\varnothing$ 0.48 mm (AWG 26)
Insulation	Polyethylene, $\varnothing$ 0.95 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil + Copper braid, tinned
Sheath	PVC or LSHF(FRNC)

### Mechanical properties

Bending radius	without load	$\geq 25$ mm
	with load	$\geq 50$ mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C



## UC300 HS26 Cat.5e

### Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 260 Ω/km
Resistance unbalance		≤ 3%
Insulation resistance	(500 V)	≥ 2000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation		Ca. 67 %
Propagation delay		≤ 535 ns/100m
Delay skew		≤ 20 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance	at 1 MHz	≤ 30 mΩ/m
	at 10 MHz	≤ 30 mΩ/m
	at 30 MHz	≤ 50 mΩ/m
Coupling attenuation		≥ 75 dB

### Electrical data (nominal)

acc. to Cat.5e (at 20°C)

F (MHZ)	Attenuation (dB/10m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1.0	0.3	71	68	68	65	23
4.0	0.6	62	59	56	53	23
10.0	0.9	56	53	48	45	23
16.0	1.1	53	50	44	41	23
20.0	1.3	51	48	42	39	23
31.2	1.6	49	46	38	35	23
62.5	2.4	44	41	32	29	23
100.0	3.0	41	38	28	25	23
125.0	3.3	40	37	26	23	23
155.5	3.6	38	35	24	21	23
175.0	3.9	37	34	23	20	
200.0	4.1	36	33	22	19	
250.0	4.4	35	32	20	17	
300.0	4.8	34	31	16	13	

### Technical data

Product code	Cable type	Brand name	Colour	Outer diameter	Fire load		Weight	Copper content	Tensile force
				mm	MJ/km	kWh/m			
1000449	Li-2Y(St)CH 4x2x0.48L LSHF	UC300 HS26 Cat.5e SF/UTP 4P LSHF	grey	5.7	369	0.103	37	22.5	100
1000450			red						
1000451			green						
1000452			blue						
1000454			yellow						
1000454			black						