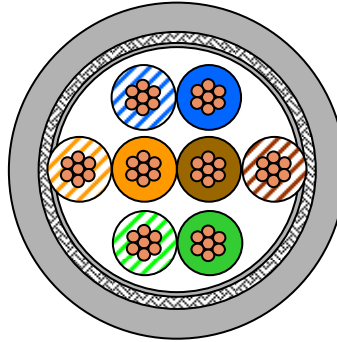




UC300 HS26 Cat.5e

SF/UTP



Application

Tertiary (horizontal)
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 61156-5
TIA/EIA-568-B.2

Flame resistance

PVC: IEC 60332-1
LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034
LSHF-FR (LSFROH) IEC 60332-3-24; IEC 60754-2; IEC 61034

Construction

Conductor	stranded bare copper wire 0.14 mm ² (AWG 26)
Insulation	Polyethylene, Ø 0.97mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil + Copper braid, tinned
Sheath	PVC, LSHF(LSOH) or LSHF-FR (LSFROH)



UC300 HS26 Cat.5e

Mechanical properties

Bending radius	During operation	4 x outer diameter
	During installation	8 x outer diameter
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C
Max tensile load	During installation	100N
	During operation	-

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) □
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

Electrical data (nominal)

at 20°C

F (MHZ)	Attenuation (dB/100m)	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	



UC300 HS26 Cat.5e

Technical Data

Product name	Type	Colour	Outer diameter mm	Fire load MJ/km	Weight Kg/km	Delivery form	Material code		DCN no.	El. no
UC300 HS26 4P PVC	SF/UTP	Grey RAL7035	5,7	325	31	D500	1000241	-00500DP	791431	1089226
UC300 HS26 4P PVC	SF/UTP	Red RAL3000	5,7	325	31	D1000	1000238	-01000DP	792802	1080917
UC300 HS26 4P PVC	SF/UTP	Green RAL6016	5,7	325	31	D1000	1000239	-01000DP	792804	1080919
UC300 HS26 4P PVC	SF/UTP	Blue RAL5012	5,7	325	31	D1000	1000242	-01000DP	792803	1080918
UC300 HS26 4P PVC	SF/UTP	Yellow RAL1021	5,7	325	31	D1000	1000240	-01000DP	792805	1080920
UC300 HS26 4P LSHF	SF/UTP	Grey RAL7035	5,7	342	35	-	1000453	-	-	-
UC300 HS26 4P LSHF	SF/UTP	Red RAL3000	5,7	342	35	-	1000450	-	-	-
UC300 HS26 4P LSHF	SF/UTP	Green RAL6016	5,7	342	35	-	1000451	-	-	-
UC300 HS26 4P LSHF	SF/UTP	Yellow RAL1021	5,7	342	35	-	1000454	-	-	-
UC300 HS26 4P LSHF	SF/UTP	Blue RAL5012	5,7	342	35	-	1000452	-	-	-
UC300 HS26 4P LSHF	SF/UTP	Black RAL 9011	5,7	342	35	-	1000455	-	-	-
UC300 HS26 4P LSHF-FR	SF/UTP	Grey RAL7035	5,8	356	35	-	1000701	-00500DP	791461	1089253