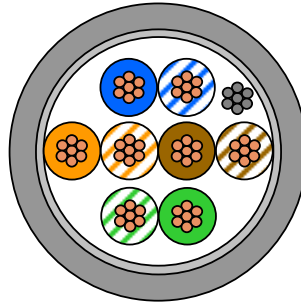




UC300 S26 Cat.5e

F/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

Construction

Conductor	stranded bare copper wire 0.14 mm ² (AWG 26) (Ø=0,48mm)
Insulation	Polyethylene, Ø 0.95 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil, stranded drain wire AWG24 tinned
Sheath	PVC or LSHF(LSOH)



UC300 S26 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) Ω
Nominal velocity of propagation		Ca. 67 %
Propagation delay		≤ 535 ns/100m
Delay skew		≤ 20 ns/100m
Test voltage		1000 V
Transfer impedance	at 1 MHz	≤ 50 mΩ/m
	at 10 MHz	≤ 100 mΩ/m
	at 30 MHz	≤ 200 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	



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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 S26 4P PVC	F/UTP	Grey RAL7035	5,7	369	32	-	1000212	-	-	-
UC300 S26 4P PVC	F/UTP	Red RAL3000	5,7	369	32	-	1000209	-	-	-
UC300 S26 4P PVC	F/UTP	Green RAL6016	5,7	369	32	-	1000210	-	-	-
UC300 S26 4P PVC	F/UTP	Yellow RAL1021	5,7	369	32	-	1000213	-	-	-
UC300 S26 4P PVC	F/UTP	Blue RAL5012	5,7	369	32	-	1000211	-	-	-
UC300 S26 4P PVC	F/UTP	Black RAL9011	5,7	369	32	-	1000208	-	-	-
UC300 S26 4P LSHF	F/UTP	Grey RAL7035	5,7	372	33	-	1000429	-	-	-
UC300 S26 4P LSHF	F/UTP	Red RAL3000	5,7	372	33	-	1000422	-	-	-
UC300 S26 4P LSHF	F/UTP	Green RAL6016	5,7	372	33	-	1000423	-	-	-
UC300 S26 4P LSHF	F/UTP	Yellow RAL1021	5,7	372	33	-	1000425	-	-	-
UC300 S26 4P LSHF	F/UTP	Blue RAL5012	5,7	372	33	-	1000424	-	-	-
UC300 S26 4P LSHF	F/UTP	Black RAL 9011	5,7	372	33	-	1000426	-	-	-