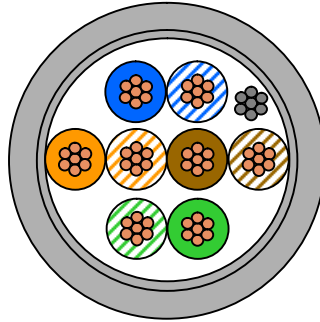




UC300 S26 Cat.5e

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 \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, stranded drain wire AWG26 tinned
Sheath	PVC or LSHF(LSOH)



UC300 S26 Cat.5e

Mechanical properties

Bending radius	without load	≥ 20 mm
	with load	≥ 40 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

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)

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	



UC300 S26 Cat.5e

Technical data

Product code	Cable type	Brand name	Colour	Outer diameter mm	Fire load		Weight kg/km	Copper content	Tensile force N
					MJ/km	kWh/m			
DCD10206	Li-2Y(St)Y 4x2x0.48L	UC300 S26 4P Patch	gray 7032	5.4	354	0.099	26	12	55
DCD10208			red 3000						
DCD10209			green 6016						
DCD10210			blue 5015						
DCD10211			grey 7035						
DCD10212			yellow 1021						
DCD10207			black 9010						
DCD10420	Li-2Y(St)H 4x2x0.48L LSHF	UC300 S26 4P LSHF Patch	gray 7032	5.4	344	0.096	25	12	55
DCD10421			red 3000						
DCD10423			green 6016						
DCD10424			blue 5015						
DCD10425			yellow 1021						
DCD10426			black 9010						
DCD10429			grey 7035						