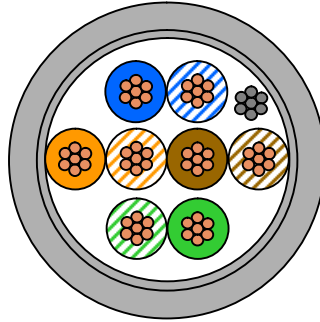




UC300 S26 Cat.5e

F/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

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)

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



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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
Coupling attenuation		≥ 55 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	



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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			
1000207 1000209 1000210 1000211 1000212 1000213 1000208	Li-2Y(St)Y 4x2x0.48L	UC300 S26 4P Patch	gray 7032 red 3000 green 6016 blue 5015 grey 7035 yellow 1021 black 9005	5.4	354	0.099	26	12	55
1000421 1000422 1000423 1000424 1000425 1000426 1000429	Li-2Y(St)H 4x2x0.48L LSHF	UC300 S26 4P LSHF Patch	gray 7032 red 3000 green 6016 blue 5015 yellow 1021 black 9005 grey 7035	5.4	344	0.096	25	12	55