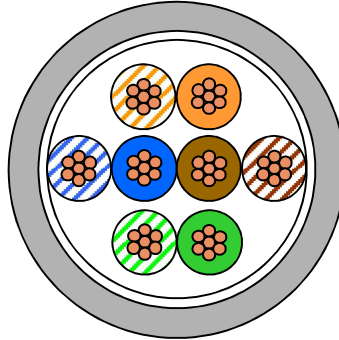


# UC300 26 Cat.5e

## U/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

EIA/TIA 568A;  
ISO/IEC 11801 2<sup>nd</sup> ed.; IEC 61156-6  
EN 50173-1; EN 50288-3-2

### Fire rating

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

### Construction

Conductor	stranded bare copper wire Ø 0.48 mm (AWG 26)
Insulation	Polyethylene, Ø 0.9 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	PVC or FRNC, grey RAL 7035

### Mechanical properties

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

## UC300 26 Cat.5e

### Electrical properties

bei 20°C

DC loop resistance	≤ 260 Ω /km
Resistance unbalance	≤ 3%
Insulation resistance (500 V)	≥ 2000 MΩ *km
Capacitance at 800 Hz	nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Mean impedance at 100 MHz	100 ± 5 Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	≤ 535 ns/100m
Delay skew	≤ 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core and Core/Screen	
Coupling attenuation	≥ 40 dB

### Transmission characteristics acc. to Category 5e

bei 20°C

f (MHz)	Attenuation (dB/10m)	NEXT (dB)		PS-NEXT (dB)		ELFEXT (dB/10m)		PS-ELFEXT (dB/10m)		Return loss (dB)
		min.	nom.	min.	nom.	min.	nom.	min.	nom.	
1	0.3	65	71	62	68	64	68	61	65	23
4	0.6	56	62	53	59	52	56	49	53	23
10	0.9	50	56	47	53	44	48	41	45	23
16	1.1	47	53	44	50	40	44	37	41	23
20	1.3	46	51	43	48	38	42	35	39	23
31.2	1.6	43	49	40	46	34	38	31	35	23
62.5	2.4	38	44	35	41	28	32	25	29	23
100	3.0	35	41	32	38	24	28	21	25	23
125	3.3		40		37		26		23	
155.5	3.6		38		35		24		21	
175	3.9		37		34		23		20	
200	4.1		36		33		22		19	
250	4.4		35		32		20		17	
300	4.8		34		31		16		13	

### Product order data

Product code	Designation	Brand name	Colour	Outer diameter mm	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
					MJ/km	kWh/m			
1000006	Li-2YY 4x2x0.48L	UC300 26 4P	Grey RAL 7035	5.2	344	0.096	25	11	55
1000010	Li-2YH 4x2x0.48L	UC300 26 4P FRNC		5.2	324	0.092	26	11	55

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[PRODUCT CODE TABLE]

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