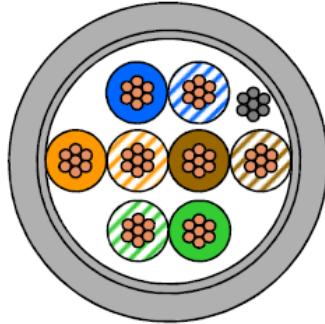


## **F/UTP CAT. 5 FLEX AWG26/7 Patch Cable UC300 S.26 Cat.5e**

### **F/UTP AWG26/7 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 26/7)	
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	$\geq 20$ mm
	with load	$\geq 40$ mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

# UC300 S26 Cat.5e

## 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
Mean impedance	100 MHz	100 ± 5 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)	ACRF (dB/100m)	PS-ACRF (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	