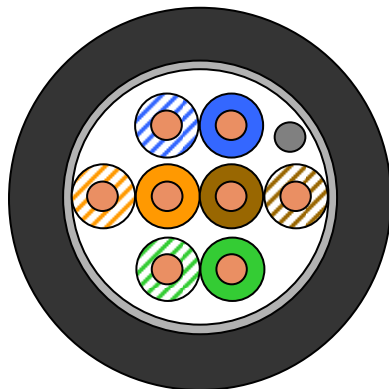


UC300 S24 Cat.5e PE

F/UTP Outdoor installation cable



Application

Computer connections, campus, vertical and horizontal wiring
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-2-1
ISO/IEC 11801; IEC 61156-5
TIA/EIA-568A

Fire resistance

PVC:IEC 60332-1

Construction

Conductor	Bare copper wire, Ø 0.51 mm (AWG24)
Insulation	PE, Ø 1.0 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Pair screen	Al-coated aluminum foil
Sheath	PE, black RAL 9005

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Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	during operation	-20°C do+ 60°C
	during installation	-20°C do+ 50°C

Electrical properties

at ± 5°C

DC loop resistance		≤ 190 Ω/km
Resistance unbalance		≤ 2%
Characteristic impedance	(500 V)	≥ 2000 MΩxkm
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	NVP	67%
Propagation delay		≤ 535 ns/100 m
Delay skew		≤ 20 ns/100 m
DC installation test	(DC, 1 min) core/core and core/screen	1000 V
Resistance test	At 1 MHz	≤ 50 mΩ /m
	At 10 MHz	≤ 100 mΩ /m
	At 30 MHz	≤ 200 mΩ /m

Nominal transmission characteristics

to Cat.5e (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1.0	1.9	71	68	69.1	66.1	68	65	20
4.0	3.7	62	59	58.3	55.3	56	53	23
10.0	6.0	56	53	50.0	47.0	48	45	25
16.0	7.6	53	50	45.4	42.4	44	41	25
20.0	8.5	51	48	42.5	39.5	42	39	25
31.2	10.7	49	46	38.3	35.3	38	35	24
62.5	15.7	44	41	28.3	25.3	32	29	22
100.0	19.8	41	38	21.2	18.2	28	25	20
125.0	22.3	40	37	17.7	14.7	26	23	19
155.5	24.2	38	35	13.8	10.8	24	21	
175.0	25.7	37	34	11.3	8.3	23	20	
200.0	27.5	36	33	8.5	5.5	22	19	
250.0	29.2	35	32	5.8	2.8	20	17	
300.0	32.0	34	31	2.0	-1.0	16	13	

UC300 S24 Cat.5e PE

Product code BKT	Product code Draka	Cable type	Brand name	Outer diameter	Weight	Copper content	Tensile force
				mm	kg/km	kg/km	N
10150108	1001017	J-2Y(St)2Y 4x2x0.51 (AWG 24)	UC300 S24 4P PE	7,8	46	19,8	80