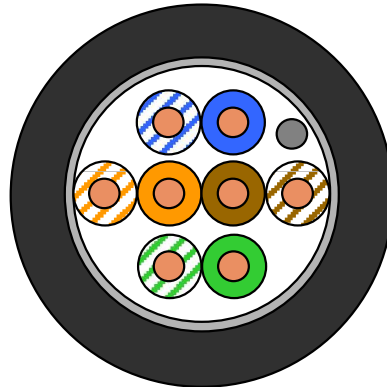


UC300 S24 Cat.5e F/UTP PE

F/UTP AWG24/1 Installation Cable



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

EN 50173-1; EN 50288-2-1
ISO/IEC 11801; IEC 61156-5
ANSI/TIA 568.C-2

Construction

Conductor	bare copper wire, Ø 0.505 mm (AWG24/1)
Insulation	Solid PE, Ø 0.89 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	AL/PET foil + tinned copper drain wire AWG26
Sheath	PE Ø 6.1 mm

Mechanical properties

Bending radius	without load	≥ 25 mm
	with load	≥ 50 mm
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

UC300 S24 Cat.5e F/UTP PE

Electrical properties

acc. to Cat.5e at 20°C

Loop resistance		≤ 190 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩxkm
Mutual capacitance	at 800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Mean characteristic impedance	100 MHz	100 ± 5 Ω
Nominal velocity of propagation		ca. 67%
Propagation delay		Nom. 535 ns/100 m
Delay skew		Nom. 20 ns/100 m
Test voltage	(DC, 1 min) core/core and core/screen	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
Segregation classification acc. EN 50174-2		„C”

Electrical data (nominal)

acc. to Cat.5e (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (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 F/UTP PE

Product Code Table

Cable type	Brand name	Outer diameter	Weight	Copper content	Tensile force
		mm	kg/km		N
J-2Y(St)2Y 4x2x0,51	UC300 S24 Cat.5e F/UTP PE	6.1	29	15	80

Headline

Product Description	PG Reference Code	PG Part Number
UC300 S24 C5e F/UTP 4P PE 305 BC	60011547	60011546

*BC – Reel in Box

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