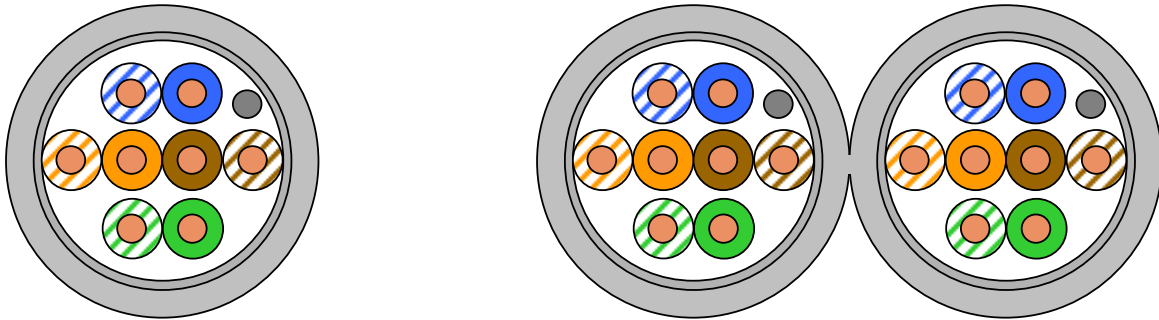




## UC300 S24 Cat.5e

### F/UTP



### 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 50288-3-1  
ISO/IEC 11801; IEC 61156-5  
TIA/EIA-568-B.2

### Flame resistance

PVC: IEC 60332-1  
LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034  
LSHF-FR(LSFROH): additionally IEC 60332-3-24

### 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 to the core
Screen	Al-laminated plastic foil, Drain wire AWG26 tinned
Sheath	PVC alt. LSHF(LSOH), grey RAL 7035 Duplex sheath: two cables parallel, separable



## UC300 S24 Cat.5e

### Mechanical properties

Bending radius	During installation	8 x D
	Installed	4 x D
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C
Maximum tensile load	During operation	-
	During installation	100 N

### Electrical properties

at 20°C± 5°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
Characteristic impedance	(1-100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation		ca. 67%
Propagation delay		≤ 535 ns/100 m
Delay skew		≤ 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

### Electrical data (nominal)

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

### Technical Data

Product name	Type	Colour	Outer diameter mm	Fire load MJ/km	Weight kg/km	Delivery form	Material code		DCN no.	El. no
UC300 S24 4P PVC	F/UTP	Grey RAL7035	6,2	486	39	B305	1000057	-00305BR	791831	1089280
UC300 S24 4P PVC	F/UTP	Grey RAL7035	6,2	486	39	D500	1000057	-00500DP	791841	1089240
UC300 S24 4P LSHF	F/UTP	Grey RAL7035	6,3	706	38	D500	1000056	-00500DP	791811	1089346
UC300 S24 4P LSHF-FR	F/UTP	Grey RAL7035	5,9	396	37	-	1000491	-	-	-
UC300 S24 2x4P PVC	F/UTP	Grey RAL7035	6,3x13,5	972	82	D500	1000251	-00500DP	791881	1089241
UC300 S24 2x4P LSHF	F/UTP	Grey RAL7035	5,9x11,8	792	74	-	1000473	-	-	-
UC300 S24 2x4P LSHF-FR	F/UTP	Grey RAL7035	5,9x11,8	792	74	-	1000477	-	-	-