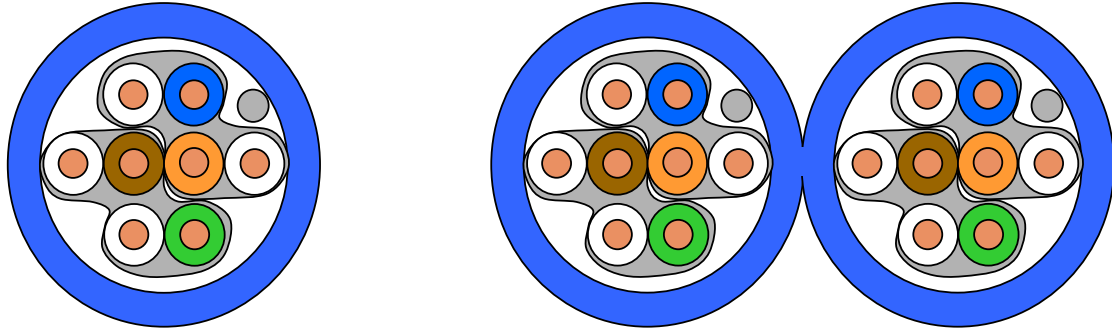




UC400 S23 Cat.6

U/FTP



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 50288-5-1
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): IEC 60332-3-24 IEC 60754-2; IEC 61034

Construction

Conductor	bare copper wire, Ø 0.56 mm (AWG23)
Insulation	Foamskin Polyethylene, Ø 1.35 mm
Twisting	2 cores to the pair
Pair screen	High Performance STP: Al-laminated plastic foil, patented wrapping of two pairs each, drain wire AWG26 tinned
Cable lay up	2x2 pairs to the core
Sheath	PVC alt. LSHF, blue RAL 5012 Duplex sheath: two cables parallel, separable



UC400 S23 Cat.6

Mechanical properties

Bending radius	without load	≥ 35 mm
	with load	≥ 70 mm
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		≤ 176 Ω /km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩ *km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	(100 ± 15)
	(100 - 250) MHz	(100 ± 18) Ω
Nominal velocity of propagation		Ca. 79 %
Propagation delay		≤ 427 ns/100m
Delay skew		≤ 12 ns/100m
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
	at 100MHz	≤ 1000 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	1.8	100	97	98	95	105	105	-
4.0	3.4	100	97	97	94	105	102	27
10.0	5.4	100	97	95	92	97	94	30
16.0	6.8	100	97	93	90	93	90	30
20.0	7.7	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100.0	17.4	100	97	83	80	77	74	30
125.0	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175.0	23.3	93	90	70	67	72	69	25
200.0	25.0	92	89	67	64	71	68	25
250.0	28.1	90	87	62	59	69	66	24
300.0	30.9	89	86	58	55	67	64	24
400.0	38.3	87	84	48	45	64	61	23



UC400 S23 Cat.6

Technical Data

Product name	Type	Colour	Outer diameter mm	Fire load MJ/km	Weight kg/km	Delivery form	Material code	DCN no.	El. no
UC400 S23 4P PVC	U/FTP	Blue RAL5012	6,5	542	41	-	1000282	-	-
UC400 S23 4P LSHF	U/FTP	Blue RAL5012	6,5	501	44	-	1000647	-	-
UC400 S23 4P LSHF-FR	U/FTP	Blue RAL5012	6,5	501	44	-	1000653	-	-
UC400 S23 2x4P PVC	U/FTP	Blue RAL5012	6,5 x 13,0	1084	82	-	1000272	-	-
UC400 S23 2x4P LSHF	U/FTP	Blue RAL5012	6,5 x 13,0	1002	88	-	1000922	-	-
UC400 S23 2x4P LSHF-FR	U/FTP	Blue RAL5012	6,5 x 13,0	1002	88	-	1000938	-	-