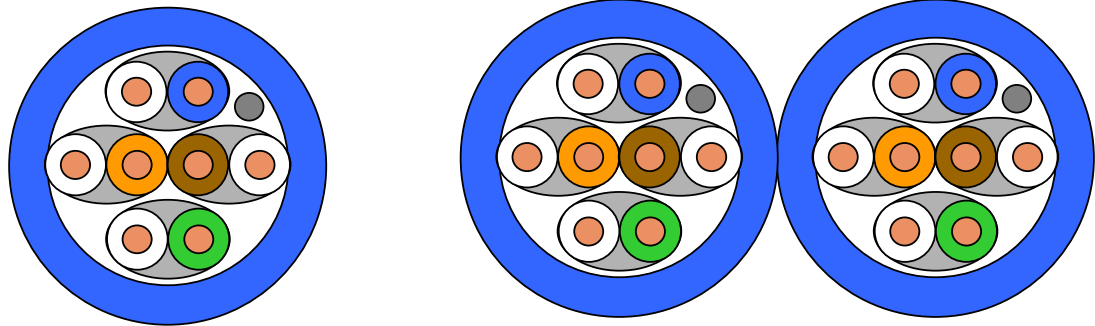




UC400 S23 Cat.6

U/FTP



Application

Generic cabling systems

Standards

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

Fire rating

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

Construction

Conductor	Bare copper wire Ø 0.55 mm (AWG23)
Insulation	PE, Ø 1.4 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Pair screen	Al-laminated plastic foil around each pair.
Lay up diameter	Ø 6,1 mm
Drain wire	Tin-coated Ø 0,4mm
Sheath	Flame retardant PVC, Flame retardant and halogen free LSHF, Fire retardant and halogen free LSHF-FR

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Mechanical Properties

Bending radius	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, installation	During installation	100N
	Installed	-

Electrical Properties

at 20°C

DC loop resistance		≤ 145 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 5000 MΩxkm
Capacitance	at 800 Hz	Nom. 45 nF/km
Capacitance unbalance	(pair to ground)	≤ 800 pF/km
Mean Characteristic impedance	@ 100 MHz)	100 ± 5 Ω
Nominal velocity of propagation		0,75c
Propagation delay		≤ 500 ns/100 m
Delay skew		≤ 20 ns/100 m
Transfer impedance	at 1 MHz	≤ 50 mΩ /m
	at 10 MHz	≤ 100 mΩ /m
	at 30 MHz	≤ 200 mΩ /m

Nominal Transmission characteristics

at 20°C

F	Attenuation	NEXT	ACR	Return loss	PS-NEXT	PS-ACR	ELFEXT	PS-ELFEXT
(MHz)	(dB/100m)	(dB)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)
1	2,0	90	88		87	85	85	82
4	3,6	90	86	27	87	83	85	82
10	5,7	90	84	30	87	81	79	76
16	7,2	90	83	30	87	80	75	72
20	8,1	90	82	30	87	79	73	70
31.25	10,2	90	80	30	87	77	69	66
62.50	14,7	90	75	30	87	72	63	60
100	18,9	90	71	30	87	68	59	56
155	24,0	88	64	26	85	61	55	52
200	27,0	88	61	25	85	58	53	50
250	31,4	86	55	25	83	52	51	48
300	34,8	86	51	23	83	48	49	46
400	38,1	86	48	23	83	45	44	41

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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	7,3	496	48	D500	1000780	-00500DP	794241	1080897
UC400 S23 4P LSHF	U/FTP	Blue RAL5012	7,3	732	45	D500	1000777	-00500DP	794211	1080898
UC400 S23 4P LSHF-FR	U/FTP	Blue RAL5012	7,3	453	50	D500	1000782	-00500DP	794251	1088125
UC400 S23 2x4P PVC	U/FTP	Blue RAL5012	7,3 x 15,5	992	97	D500	1000785	-00500DP	794281	1082604
UC400 S23 2x4P LSHF	U/FTP	Blue RAL5012	7,3 x 15,5	1464	91	D500	1000783	-00500DP	794271	1089537