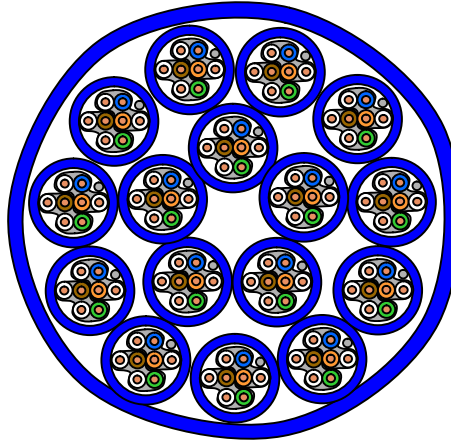




UC400 S23 Cat.6 n x 4P LSHF

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(FRNC): IEC 60332-1; IEC 60754-2; IEC 61034
LSHF-FR(FRNC-C): additionally IEC 60332-3-24

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	FRNC, blue RAL 5012, number printing
Stranding	n x pairs stranded to form the cable core, fillers in the interstices
Overall sheath	LSHF, blue RAL 5012, rip cord under the sheath.
Printing	DRAKA COMTEQ UC400 CAT.6 U/FTP nX4 PAIRES AWG 23/1 LSZH <batch code>m



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Mechanical properties

Bending radius	without load	$\geq 4 \times$ Outer diameter
	with load	$\geq 8 \times$ Outer diameter
Temperature range	during operation	-20°C to + 60°C
	during installation	0°C to + 50°C

Electrical properties

at 20°C ± 5°C

Loop resistance		$\leq 176 \Omega / \text{km}$
Resistance unbalance		$\leq 2\%$
Insulation resistance	(500 V)	$\geq 2000 \text{ M}\Omega \cdot \text{km}$
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	$\leq 1500 \text{ pF/km}$
Characteristic impedance	(1-100 MHz)	(100 ± 15)
	(100 - 250) MHz	(100 ± 18) Ω
Nominal velocity of propagation		Ca. 79 %
Propagation delay		$\leq 427 \text{ ns}/100\text{m}$
Delay skew		$\leq 12 \text{ ns}/100\text{m}$
Test voltage	(DC, 1 min) core/ core and core/screen	1000 V
Transfer impedance	at 1 MHz	$\leq 50 \text{ m}\Omega / \text{m}$
	at 10 MHz	$\leq 100 \text{ m}\Omega / \text{m}$
	at 30 MHz	$\leq 200 \text{ m}\Omega / \text{m}$
	at 100MHz	$\leq 1000 \text{ m}\Omega / \text{m}$

Electrical data (nominal)

acc. to Cat.6 (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



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Technical data

Product code	Cable type	Brand name	Outer diameter Mm	Fire load		Weight kg/km	Copper content	Tensile force
				MJ/km	kWh/m			N
1000668 CD7688322	J-02YS(St)HH 3x(4x2x0.56)	UC400 S23 Cat.6 U/FTP 3x4P LSHF	16.0	2013	0.556	192.3	72	330
	J-02YS(St)HH 4x(4x2x0.56)	UC400 S23 Cat.6 U/FTP 4x4P LSHF	17.8	2684	0.746	251	96	440
1012381 CD7689022	J-02YS(St)HH 6x(4x2x0.56)	UC400 S23 Cat.6 U/FTP 6x4P LSHF	18.6	4186	1.163	350.5	144	663
1000670 CD7688822	J-02YS(St)HH 8x(4x2x0.56)	UC400 S23 Cat.6 U/FTP 8x4P LSHF	24.2	5521	1.589	455.1	192	885
1012382 CD7689122	J-02YS(St)HH 12x(4x2x0.56)	UC400 S23 Cat.6 U/FTP 12x4P LSHF	28.2	9022	2.506	650	288	1330
1006693 CD7688922	J-02YS(St)HH 16x(4x2x0.56)	UC400 S23 Cat.6 U/FTP 16x4P LSHF	34.2	12030	3.342	864	401	1797