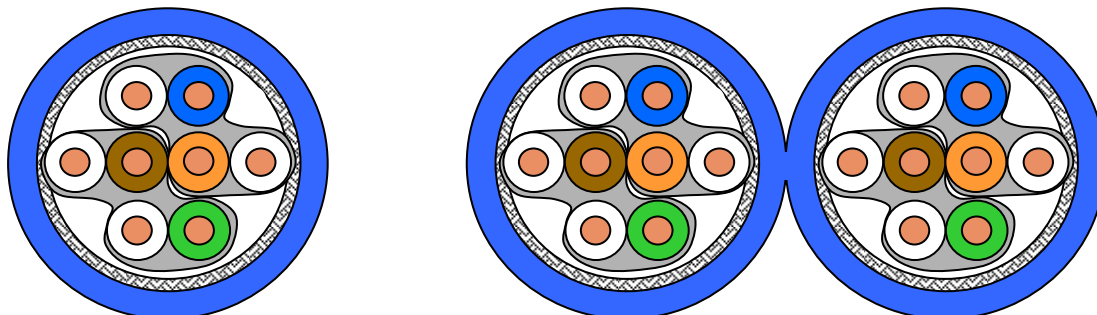


UC400 HS23/1 Installation Cable	J-02YS(St)CH 4x2x0.56 (AWG 23) 100Ω Data Cable ISO/IEC 11801 CAT-6	S/STP
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The right to alterations reserved



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

Fire rating

PVC: IEC 60332-1
FRNC: IEC 60332-1; IEC 60754-2; IEC 61034;
FRNC-C: additionally IEC 60332-3 C

Construction

Conductor	bare copper wire Ø 0.56 mm (AWG23)
Insulation	Foamskin Polyethylene, Ø 1.38 mm
Twisting	2 cores to the pair
Pair screen	High Performance-FTP: Al-laminated plastic foil, patented wrapping of two pairs each
Cable lay up	2x2 pairs to the core
Overall screen	Copper braid, tinned (approx. 45 % coverage), drain wire AWG26 tinned
Sheath	PVC alt. FRNC, blue RAL 5012

Technical Data

Product code	Designation	Brand name	Outer diameter mm	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
				MJ/km	kWh/m			
CD2787234	J-02YS(St)CY 4x2x0.56	UC400 HS23/1 4P	6.9	561	0.156	46	29	160
CD7687224	J-02YS(St)CH 4x2x0.56	UC400 HS23/1 4P FRNC		517	0.144	49		
CD7687234		UC400 HS23/1 4P FRNC-C						
CD2750934	J-02YS(St)CY 2x(4x2x0.56)	UC400D HS23/1 2x4P	6.9/14.0	1122	0.312	92	58	320
CD7650924	J-02YS(St)CH 2x(4x2x0.56)	UC400D HS23/1 2x4P FRNC		1034	0.288	98		
CD7650934		UC400D HS23/1 2x4P FRNC-C						

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Mechanical Properties

Bending radius	≥ 40 mm without load ≥ 80 mm with load
Temperature range,	during operation -20°C upto + 60°C during installation 0°C upto + 50°C

Electrical Properties (at 20°C ± 5°C)

DC loop resistance	≤ 176 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 2000 MΩ *km
Capacitance at 800 Hz	nom. 43 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Characteristic impedance (1-100 MHz)	(100 ± 15) Ω
(100 - 250) MHz	(100 ± 18) Ω
Nominal velocity of propagation	approx. 79 %
Propagation delay	≤ 427 ns/100m
Delay skew	≤ 12 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core and Core/Screen	
Transfer impedance	at 1 MHz ≤ 15 mΩ /m at 10 MHz ≤ 10 mΩ /m at 30 MHz ≤ 30 mΩ /m

Nominal transmission characteristics acc. to Category 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	1,8	100	97	98	95	105	105	-
4	3,4	100	97	97	94	105	102	27
10	5,4	100	97	95	92	97	94	30
16	6,8	100	97	93	90	93	90	30
20	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	17,4	100	97	83	80	77	74	30
125	19,5	95	92	75	72	75	72	26
155,5	21,9	94	91	72	69	73	70	26
175	23,3	93	90	70	67	72	69	25
200	25,0	92	89	67	64	71	68	25
250	28,1	90	87	62	59	69	66	24
300	30,9	89	86	58	55	67	64	24
400	38,3	87	84	48	45	64	61	23