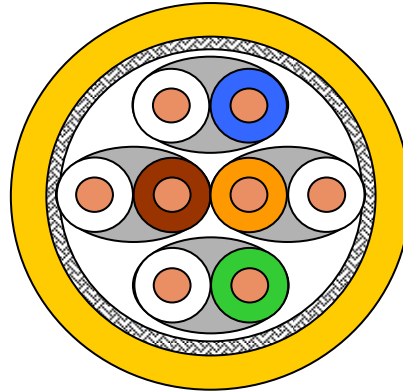


UC1200 HS23/1 Installation Cable	J-02YSCH 4x2x0.57 PiMF (AWG 23) 100Ω Data Cable ISO/IEC 11801 CAT-7+	S/STP
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The right to alterations reserved



Application: Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.5; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; **10GBase-T**
ISDN; TPDDI; ATM, CATV, Broadband Video, SOHO-Cabling

Standards: EIA/TIA 568A;
ISO/IEC 11801 2nd ed. 9/2002
EN 50173-1; EN 50288-4-1, IEC 61156-5,

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

Construction

Conductor	bare copper wire Ø 0.57 mm (AWG 23)
Insulation	Foamskin Polyethylene, Ø 1.4 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs to the core
Overall screen	Copper braid, tinned (approx. 35 % coverage)
Sheath	FRNC, melon yellow RAL 1028

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

Technical Data

Product code	Designation	Brand name	Outer diameter mm	Fire load		Weight kg/km	Copper content	Ten- sile force N
				MJ/km	kWh/m			
CD7699820	J-02YSCH 4x2x0.57 PiMF	UC1200 HS23/1 4P FRNC	7.5	642	0.178	66	26	110
CD7699830		UC1200 HS23/1 4P FRNC-C						

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Electrical Properties (at 20°C ± 5°C)

DC loop resistance	≤ 165 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			
(250 - 600) MHz	(100 ± 25) Ω			
(600 - 1200) MHz	(100 ± 30) 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				
Screening characteristics	1 MHz	10 MHz	30 MHz	100 MHz
Transfer Impedance (mΩ /m)	20	30	40	200

Nominal transmission characteristics acc. to Category 7 (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	2.0	117	114	115	112	105	103	20
4	3.6	117	114	113	110	93	91	23
10	5.7	117	114	112	109	85	83	25
16	7.2	114	111	107	104	81	79	25
20	8.1	113	110	105	102	79	77	25
31.2	10.1	110	107	100	97	75	73	24
62.5	14.5	105	102	91	88	69	67	22
100	18.5	102	99	84	81	65	63	20
125	21.1	101	98	80	77	63	61	19
155.5	23.4	100	97	76	73	61	59	19
175	25.1	99	96	74	71	60	58	18
200	26.8	98	95	71	68	59	57	18
250	30.1	96	93	66	63	57	55	17
300	33.0	95	92	62	59	55	53	17
450	42.6	93	90	50	47	52	50	17
600	49.0	91	88	42	39	49	47	17
1000	63.3	87	84	24	21	45	43	
1200	69.3	86	83	17	14	43	41	