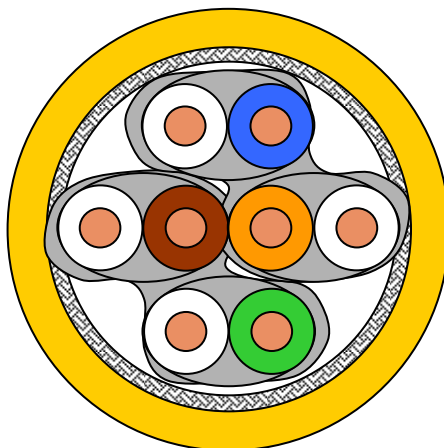


UC1200 SS22 Installation Cable	J-02YSCY 4x2x0.64 PiMF (AWG 22) 100Ω Data Cable ISO/IEC 11801 CAT-7+	HP-S/STP
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The right to alterations reserved



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, IEC 61156-7

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

Construction

Conductor	bare copper wire Ø 0.645 mm (AWG 22)
Insulation	Foamskin Polyethylene, Ø 1.55 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil and patented wrapping of two pairs each
Cable lay up	2x2 pairs to the core
Overall screen	Copper braid, tinned (approx. 65 % coverage), drain wire
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 kg/km	Ten- sile force N
				MJ/km	kWh/m			
CD7679922	J-02YSCH 4x2x0.64 PiMF	UC1200 SS 22 4P FRNC	8.9	746	0.207	95	48	380
CD7679932		UC1200 SS 22 4P FRNC-C						

UC1200 SS22 Installation Cable	J-02YSCY 4x2x0.64 PiMF (AWG 22) 100Ω Data Cable ISO/IEC 11801 CAT-7+	HP-S/STP
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Electrical Properties (at 20°C ± 5°C)

DC loop resistance	≤ 118 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. 80 %				
Propagation delay	≤ 427 ns/100m				
Delay skew	≤ 12 ns/100m				
Test voltage (DC, 1 min)	1000 V				
Core/Core and Core/Screen					
Schirmeigenschaften bei	1 MHz	10 MHz	30 MHz	100 MHz	
Kopplungswiderstand (mΩ /m)	5	5	15	30	

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	1,7	115	112	113	110	105	102	24
4	3,3	115	112	112	109	105	102	27
10	5,1	115	112	110	107	97	94	30
16	6,5	115	112	108	105	93	90	30
20	7,3	115	112	108	105	91	88	30
31,2	9,1	115	112	106	103	87	84	30
62,5	12,8	114	111	102	99	81	78	30
100	16,3	111	108	95	92	77	74	30
125	18,2	110	107	92	89	75	72	26
155,5	20,3	109	106	88	85	73	70	26
175	21,5	108	105	86	83	72	69	25
200	23,0	107	104	84	81	71	68	25
250	25,8	105	102	80	77	69	66	24
300	28,3	104	101	76	73	67	64	24
450	34,7	102	99	67	64	64	61	23
600	40,2	100	97	60	57	61	58	22
750	45,0	98	95	53	50	59	56	21
900	49,4	97	94	48	45	58	55	20
1000	52,1	96	93	44	41	57	54	20
1200	57,1	95	92	38	35	55	52	20
1500	64,1	94	91	30	27	53	50	19