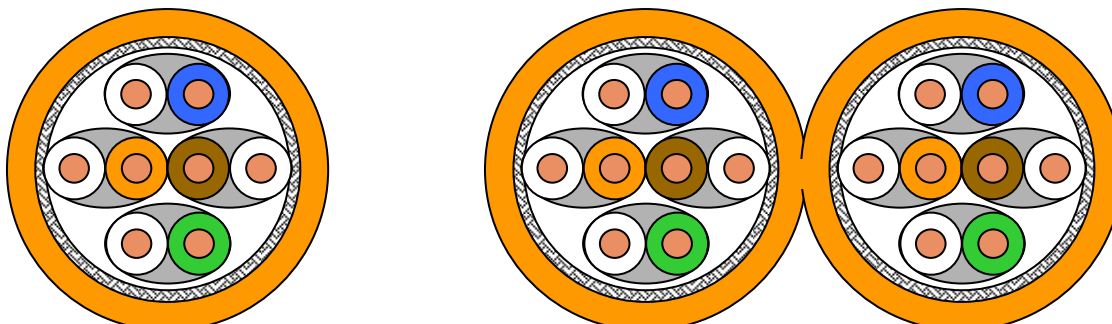


UC600 SS23/1 Installation Cable	J-02YSCH 4x2x0.56 PiMF (AWG 23/1) 100Ω Data Cable ISO/IEC 11801 CAT-7	S/STP
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The right to alterations reserved



Application: Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; **10GBase-T**
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

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

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 (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 (PiMF) to the core
Overall screen	Copper braid, tinned (approx. 65 % coverage)
Sheath	PVC alt. FRNC, orange

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			
CD2739330	J-02YSCY 4x2x0.56 PiMF	UC600 SS 23/1 4P	7.5	637	0.177	75	44	340
CD7679320	J-02YSCH 4x2x0.56 PiMF	UC600 SS 23/1 4P FRNC	7.5	585	0.163	75		
CD7679330		UC600 SS 23/1 4P FRNC-C	7.5	585	0.163	75		
CD7676720	J-02YSCH 2x(4x2x0.56) PiMF	UC600D SS 23/1 2x4P FRNC	7.5/15.0	1170	0.326	150	88	680
CD7676730		UC600D SS 23/1 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	≤ 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
Nominal velocity of propagation	approx. 78 %
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 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	1.8	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
450	38.3	87	84	48	45	64	61	23
600	44.8	85	82	40	37	61	58	22
750	52.0	83	80	31	28	59	56	21
900	59.4	82	79	23	20	58	55	20
1000	63.1	80	77	17	14	57	54	20

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