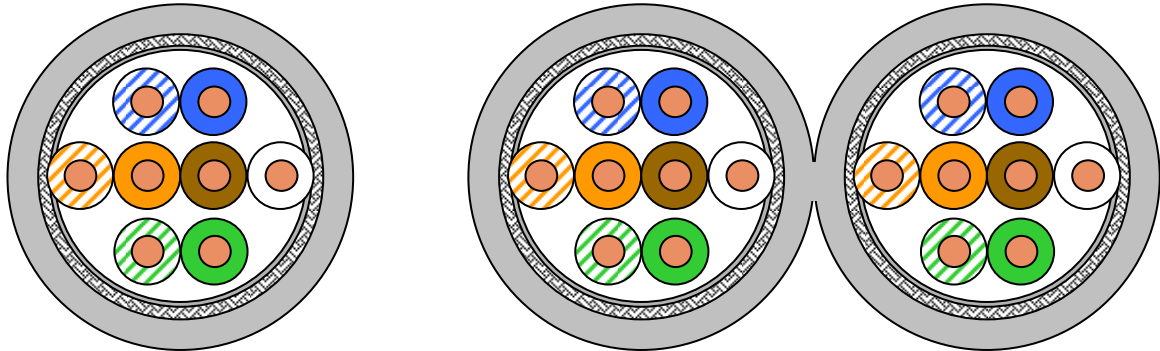


UC300 HS24 Installation Cable	J-2Y(St)CY 4x2x0.51 (AWG 24) 100Ω Data Cable ISO/IEC 11801 CAT-5e	S/FTP
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The right to alterations reserved



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 568A;
 ISO/IEC 11801 2nd ed.; IEC 61156-5
 EN 50173 ; EN 50288-2-1

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 0.51 mm (AWG24)
Insulation	Polyethylene, Ø 0.95 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Overall screen	Al-laminated plastic foil and Copper braid, tinned (coverage > 40%)
Sheath	PVC alt. FRNC, grey RAL 7035 Duplex sheath: two cables parallel, separable

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			
CD2753730	J-2Y(St)CY 4x2x0.51	UC300 HS24 4P	6.4	474	0.132	46	30	120
CD7677520	J-2Y(St)CH 4x2x0.51	UC300 HS24 4P FRNC		433	0.120	47		
CD7677530	J-2Y(St)CH 4x2x0.51	UC300 HS24 4P FRNC-C						
CD2754730	J-2Y(St)CY 2x(4x2x0.51)	UC300D HS24 2x4P	6.5/13.0	948	0.264	92	60	240
CD7675420	J-2Y(St)CH 2x(4x2x0.51)	UC300D HS24 2x4P FRNC		866	0.240	94		
CD7675430	J-2Y(St)CH 2x(4x2x0.51)	UC300D HS24 2x4P FRNC-C						

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Mechanical Properties

Bending radius	≥ 25 mm without load ≥ 50 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	≤ 192 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 2000 MΩ *km
Capacitance at 800 Hz	nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Characteristic impedance (1-100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	≤ 535 ns/100m
Delay skew	≤ 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core and Core/Screen	
Transfer impedance	at 1 MHz ≤ 20 mΩ /m at 10 MHz ≤ 20 mΩ /m at 30 MHz ≤ 30 mΩ /m at 100 MHz ≤ 60 mΩ /m

Nominal transmission characteristics acc. to Category 5e (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	1,9	71	68	69,1	66,1	68	65	20
4	3,7	62	59	58,3	55,3	56	53	23
10	6	56	53	50	47,0	48	45	25
16	7,6	53	50	45,4	42,4	44	41	25
20	8,5	51	48	42,5	39,5	42	39	25
31,2	10,7	49	46	38,3	35,3	38	35	24
62,5	15,7	44	41	28,3	25,3	32	29	22
100	19,8	41	38	21,2	18,2	28	25	20
125	22,3	40	37	17,7	14,7	26	23	19
155,5	24,2	38	35	13,8	10,8	24	21	
175	25,7	37	34	11,3	8,3	23	20	
200	27,5	36	33	8,5	5,5	22	19	
250	29,2	35	32	5,8	2,8	20	17	
300	32,0	34	31	2,0	-1,0	16	13	