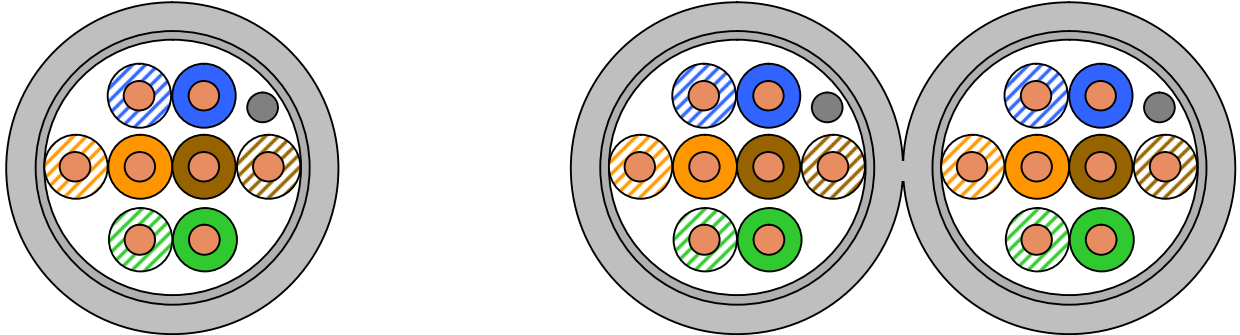


UC300 S24 Installation Cable	J-2Y(St)Y 4x2x0.51 (AWG 24) 100Ω Data Cable ISO/IEC 11801 CAT-5e	FTP
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Application: Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
IEEE 802.5 16 MB; ISDN; FDDI; ATM

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 1.0 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Overall screen	Al-laminated plastic foil, Drain wire AWG26 tinned
Sheath	PVC alt. FRNC, grey RAL 7032 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			
CD2743831	J-2Y(St)Y 4x2x0.51	UC300 S24 4P	5.9	430	0.119	36	19.8	80
CD7675121	J-2Y(St)H 4x2x0.51	UC300 S24 4P FRNC		396	0.110	37		
CD7675132	J-2Y(St)H 4x2x0.51	UC300 S24 4P FRNC-C						
CD2756931	J-2Y(St)Y 2x(4x2x0.51)	UC300D S24 2x4P	5.9/11.8	860	0.238	72	39.6	160
CD7675020	J-2Y(St)H 2x(4x2x0.51)	UC300D S24 2x4P FRNC		792	0.220	74		
CD7675030	J-2Y(St)H 2x(4x2x0.51)	UC300D S24 2x4P FRNC-C						

UC300 S24 Installation Cable	J-2Y(St)Y 4x2x0.51 (AWG 24) 100Ω Data Cable ISO/IEC 11801 CAT-5e	FTP
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Mechanical Properties

Bending radius	≥ 25 mm without load ≥ 50 mm with load
Temperature range,	during operation -20°C up to + 60°C during installation 0°C up to + 50°C

Electrical Properties (at 20°C ± 5°C)

DC loop resistance	≤ 190 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 ≤ 50 mΩ /m at 10 MHz ≤ 100 mΩ /m at 30 MHz ≤ 200 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	