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**UC300 24 4P**  
Flooded for underground

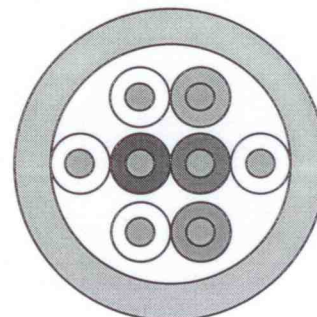
**J-2YY 4x2x0.5 (AWG 24) "DRAKA Comteq"**  
100Ω Data Cable ISO/IEC 11801 **CAT-5e**

**UTP PE + ŻEL**

**Application:** IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;  
IEEE 802.5 16 MB; ISDN; FDDI; ATM

**Standards:** EIA/TIA 568A; ISO/IEC 11801; IEC 61156-5  
EN 50173; EN 50288-3-1

**Fire rating PVC:** IEC 60332-1  
**Fire rating FRNC:** IEC 60332-1; IEC 60754-2; IEC 61034;



### Construction

Conductor	bare copper wire Ø 0.5 mm (AWG24)
Insulation	Polyethylene, Ø 0.9 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the cable core
Sheath	PE, flooded
Packaging	200, 300, 500 m

### Mechanical Properties

Bending radius	without load	≥ 20 mm
	with load	≥ 40 mm
Temperature range	during installation	-20°C upto + 60°C
	during operation	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 between cores (DC, 1 min)	1000 V

### 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) min.
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	
1	2.1	1.9	65.3	71	62.3	68	63.2	69.1	60.2	66.1	63	68	61	65	20
4	4.1	3.7	56.3	62	53.3	59	52.2	58.3	49.2	55.3	51	56	49	53	23
10	6.5	6	50.3	56	47.3	53	43.8	50	40.8	47.0	43	48	41	45	25
16	8.3	7.6	47.2	53	44.2	50	39.0	45.4	36.0	42.4	39	44	37	41	25
20	9.3	8.5	45.8	51	42.8	48	36.5	42.5	33.5	39.5	37	42	35	39	25
31.2	11.7	10.7	42.9	49	39.9	46	31.2	38.3	28.2	35.3	33	38	31	35	24
62.5	17.0	15.7	38.4	44	35.4	41	21.4	28.3	18.4	25.3	27	32	25	29	22
100	22.0	19.8	35.3	41	32.3	38	13.3	21.2	10.3	18.2	23	28	21	25	20
125	24.9	22.3	33.8	40	30.8	37	9.0	17.7	6.0	14.7	21	26	19	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	

### 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			
CD2743730-00305B	J-2YY 4x2x0.5	UC300 24 4P	5.5	365	0.101	37	17.5	80
CD2993120-00305B	J-2YH 4x2x0.5	UC300 24 4P FRNC		336	0.093	36		