

PragonTECH

O RF CABLE & CONNECTO



Unit A, 11F, Wing Hong Centre, 18 Wing Hong St., Kowloon, Hongkong



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Jata sheet

DragonTECH 50 Ohms Corrugated Copper Tube Series Coaxial Cables

Applications

- Land mobile and cellular radio
- Earth station antenna jumper cables
- Jumpers for equipments room and antenna connection
- Military data links
- VLF, AM and FM radio broadcast systems
- Point to point terrestrial microwave
- Airborne and shipboard radar systems
- Tactical, restoration and portable communication systems

Product Benefits

- Excellent Electrical performance
- 80% super-high degree foaming polyethylene insulation
- Low attenuation, low VSWR
- Light, flexible and easily-bending thin-wall corrugated copper conductor offers convenience for field work with 6 types of dimensions
- Effective moisture-proofing without injection of drying-gases
- Come with full Test Report
- 100% RoHS, LSZH, ISO9001:2000



		1-5/8 *	1-1/4*	7/8 *	5/8 *	1/2*	3/8 *	7/8 * S	1/2 °S	1/4 ° S	
Physical Dimensions											
Inner (Dia.mm)	Conductor	17.30	13.10	9.05	7.05	4.80	3.15	9.35	3.60	1.91	
Outer (Dia.mm)	Conductor	46.50	35.80	24.90	19.80	13.80	9.50	24.90	12.20	6.40	
*Jacket (mm)	Thickness	1.75	1.80	1.30	1.20	1.00	0.85	1.05	0.70	0.60	
	Diameter	50.00	39.40	27.50	22.20	15.80	11.20	27.00	13.60	7.60	
Weight (kg/km)		1470	1085	530	420	250	135	430	210	80	
Mechanical Characteristics											
Minimum Bending Radius (mm)	Single Bending	300	200	120	90	70	50	80	25	25	
	10 Repeated Bendings	510	380	250	200	125	95	125	30	30	
	Mobile Application			500	450	350	300	400	200	200	
Max. Pulling Strength (N)		3630	5900	1470	3630	1130	800	1020	800	680	







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		1-5/8 *	1-1/4*	7/8 *	5/8 *	1/2 *	3/8 *	7/8 ° S	1/2 °S	1/4 ° S	
Electrical Characteristics											
DC Resistance ≤(Ω/km)(20 °C)	Inner Conductor	0.83	0.72	1.05	0.49	1.48	3.48	2.70	2.69	9.80	
	Outer Conductor	0.52	0.62	1.18	1.37	1.90	2.85	1.19	3.28	6.50	
Nominal Capacitance (pF/m)		76	75	75	76.1	75.8	75	74.2	82	79.4	
Characteristic Impedance (Ω)						50±1					
Velocity Ratio (%)		88	89	89	89	88	88	88	84	84	
	10MHz	0.20	0.25	0.37	0.48	0.67	1.06	0.40	1.04	1.83	
	100MHz	0.67	0.83	1.19	1.55	2.17	3.42	1.30	3.41	5.89	
	150MHz	0.83	1.03	1.47	1.92	2.67	4.22	1.61	4.21	7.25	
Attenuation	200MHz	0.98	1.20	1.72	2.24	3.10	4.90	1.87	4.91	8.41	
(20°C)	300MHz	1.22	1.50	2.13	2.78	3.83	6.06	2.32	6.09	10.40	
(dB/100m)	450MHz	1.53	1.87	2.65	3.46	4.75	7.51	2.88	7.59	12.80	
	800MHz	2.13	2.59	3.63	4.75	6.46	10.20	3.94	10.40	17.40	
	900MHz	2.29	2.77	3.88	5.07	6.87	10.90	4.22	11.20	18.40	
	1000MHz	2.43	2.94	4.12	5.38	7.28	11.60	4.46	11.80	19.60	
	1500MHz	3.11	3.73	5.18	6.78	9.09	14.40	5.60	14.90	24.30	
	1800MHz	3.47	4.16	5.75	7.54	10.10	16.00	6.21	16.60	26.90	
	2000MHz	3.71	4.43	6.11	8.02	10.70	17.00	6.59	17.60	28.50	
	2500MHz	4.27	5.08	6.95	9.15	12.10	19.30	7.50	19.20	32.10	
	3000MHz		5.68	7.76	10.20	13.40	21.40	8.35	22.40	35.60	
	10MHz	54.30	38.60	24.60	16.70	11.30	7.23	21.50	10.10	3.97	
	100MHz	16.40	11.70	7.56	5.14	3.49	2.24	6.62	3.08	1.23	
Mean Power	200MHz	11.30	8.12	5.26	3.57	2.44	1.56	4.61	2.14	0.865	
Rating (kW)	300MHz	9.01	6.52	4.24	2.87	1.97	1.26	3.72	1.72	0.701	
	450MHz	7.18	5.22	3.41	2.31	1.59	1.02	2.99	1.38	0.567	
(Ambient	800MHz	5.15	3.78	2.48	1.68	1.17	0.748	2.19	1.01	0.419	
Temperature	1000MHz	4.52	3.32	2.19	1.48	1.04	0.663	1.94	0.889	0.372	
40 ℃ , Inner Conductor	1500MHz	3.54	2.62	1.74	1.18	0.833	0.53	1.54	0.705	0.299	
80°C)	1800MHz	3.17	2.35	1.57	1.06	0.753	0.479	1.39	0.634	0.271	
000,	2000MHz	2.96	2.21	1.48	0.996	0.71	0.451	1.31	0.597	0.256	
	2500MHz	2.58	1.92	1.30	0.868	0.627	0.40	1.15	0.525	0.226	
	3000MHz		1.72	1.16	0.783	0.565	0.358	1.04	0.469	0.204	
DC Breakdown Voltage (V) ≥		11000	9000	6000	5000	4000	2500	6000	2500	1600	
RF Peak Power (315	205	91	62	40	15.6	90	15.6	6.4	
Cut-offfrequency(GHz)		3.00	4.00	6.00	6.10	8.80	13.50	4.90	10.20	20.40	
Shielding Effectiveness (dB)		>>120									
Insulation Resistance(MQ+km)			≥5×10³								
	0.01GHz-3GHz		-	≤1.15							
VOMO	0.01GHz-2GHz		≤	1.15			-				
VSWR	820MHz—960MHz 1.7GHz—1.9GHz			≤1.10							
	1.7 GHz-1.9 GHz 2.1 GHz-2.2 GHz		₹1.10								
	2.10112-2.20										







