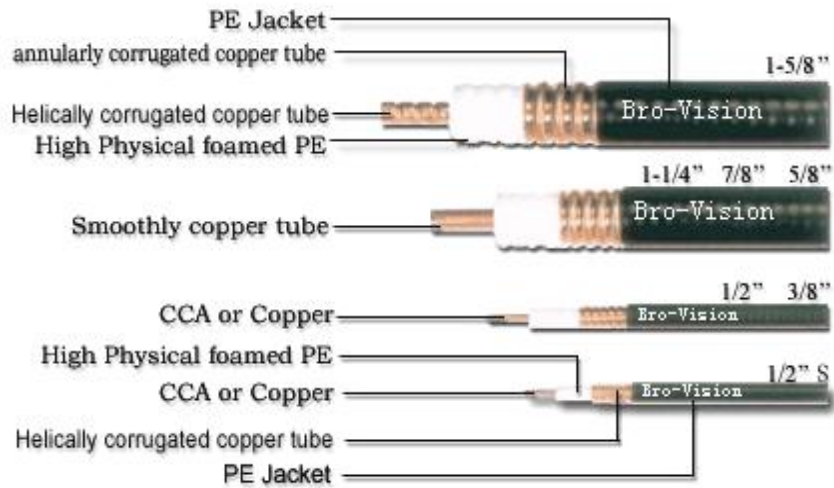


50Ω CORRUGATED CABLES



1. Construction (Diameter: mm)

Item	1/4"	1/4" S	3/8"	3/8" S	1/2"	1/2"S
Inner conductor	2.4	1.9	3.3	2.6	4.8	3.56
Dielectric	6.5	4.7	8.3	6.7	12.3	9
Outer conductor	7.5	6.35	9.6	9.1	13.8	12.19
Jacket	9.1	7.5	11.2	10.2	15.7	14.7

2. Characteristics

Item	1/4"	1/4" S	3/8"	3/8" S	1/2"	1/2"S	
Min.bending radius (mm) [many times]	152	50	190	50	250	110	
Operating temperature (°C)	Standard jacket	-40°C ~ +80°C					
	Halogen-free / Fire-retardant jacket	-40°C ~ +85°C					
Construction weight (kg/m)	Standard jacket	100	70	120	105	245	210
	Halogen-free / Fire-retardant jacket	115	85	130	120	263	220
Flat plate crush resistance (kg/mm <sup>2</sup> )	2.7	1.7	1.7		2	1.7	
Max.pulling (kg)	53	35	60	36	113	65	
DC resistance (Ω/km)	Inner conductor (CCA)	6.1	10.45	3.2	5.4	4.19	2.97
	Outer conductor	3.7	7.02	3.1	3.5	1.52	3.54
Velocity of propagation (%)	88	84	88	84	1.9	81	
Insulation resistance (MΩ/Km)	>5000	>5000	>5000	>5000	>5000	>5000	
Peak power rating (KW)	11	9.1	15.6	12	40	15.6	
RF Peak power Voltage (KV)	0.83	0.8	1.05	1.04	1.6	15.6	
Max.operating frequency (GHz)	20.4	18.4	13.5	13.4	8.8	10000	
Characteristic impedance (Ω)	50±1						
V.S.W.R (1M~3GHz, Max)	1.15	1.2	1.15	1.15	1.15	1.15	

3. Attenuation(@20°C) db/100m

Frequency	1/4"	1/4" S	3/8"	3/8" S	1/2"	1/2"S
100MHz	4.25	5.6	3.12	2.17	2.15	3.33
200MHz	6.1	8	4.45	2.67	3.08	4.1
450MHz	9.37	12.2	6.79	4.75	4.7	7.31
800MHz	12.72	16.7	9.2	6.56	6.35	10.11
900MHz	13.55	17.5	9.8	7.12	6.75	11.03

1000MHz	14.35	18.6	10.37	7.28	7.2	11.2
1500MHz	17.8	23.4	12.9	9.74	9.05	15.21
1800MHz	19.7	25.7	14.25	10.1	9.9	15.6
2000MHz	20.8	26.9	15.1	10.7	10.5	16.51
2200MHz	21.9	28.5	15.9	11.6	11.1	17.92
2400MHz	23	30	16.7	10.7	11.6	16.51
2500MHz	23.6	30.6	17.08	11.6	11.95	17.92
3000MHz	26.1	33.5	18.9	13.51	13.2	21.03

#### 4. Average power rating(@Ambient 40°C,Inner conductor 100°C) KW

Frequency	1/4"	1/4" S	3/8"	3/8" S	1/2"	1/2"S
100MHz	1.87	1.23	2.23	6.26	3.94	4.79
200MHz	1.3	0.86	1.56	3.43	2.75	2.59
450MHz	0.85	0.57	1.02	2.79	1.8	2.1
800MHz	0.62	0.42	0.75	1.56	1.33	1.18
900MHz	0.58	0.39	0.71	1.13	1.25	0.85
1000MHz	0.55	0.37	0.67	1.08	1.18	0.82
1500MHz	0.44	0.3	0.53	1.05	0.95	0.78
1800MHz	0.4	0.27	0.48	1.02	0.86	0.77
2000MHz	0.37	0.26	0.46	0.76	0.81	0.57
2200MHz	0.35	0.25	0.43	0.74	0.77	0.55
2400MHz	0.34	0.24	0.42	0.7	0.75	0.52
2500MHz	0.33	0.23	0.41	0.64	0.73	0.48
3000MHz	0.3	0.21	0.37	0.55	0.65	0.41

#### 5. Knowledge of Corrugated Copper tube cables

50 ohms corrugated copper tube coaxial cable is made on advanced physical foaming insulation production line and argon arc welding, corrugating and slotting production line which are imported respectively from Austria and USA. Its operation is strictly in compliance with ISO 9001 quality assurance system for quality control of product.

50 ohms corrugated copper tube coaxial cable is mainly used for base station which include wireless mobile communication, cellular, microwave and broadcast applications as connection of transmitter, receiver and antenna and also connection between wireless communication equipments or other low loss and SWR signal transmission at high frequency. The cables have CCA or solid copper or copper tube conductor, a dielectric of foamed PE with 80% foaming degree which is finished on a three layers co-extruder and consist of skin-foam-skin, outer conductor consisting of corrugated copper tube with good properties such as low attenuation, low VSWR, low temperature, corrosion resistance, good water longitudinally sealed and high power capacity and black weather or flame retardant PE jacket.