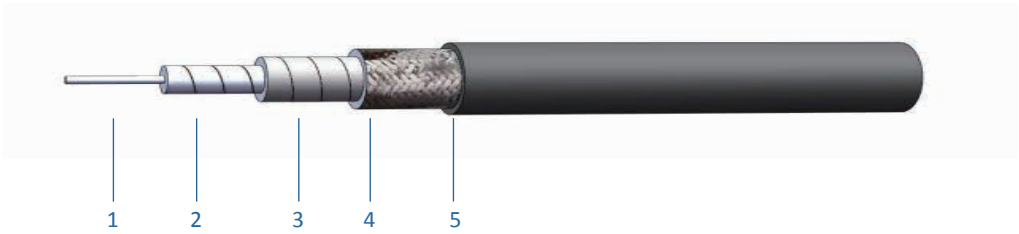
ZJE series Ultra low loss stable amplitude and phase cable assembly



Data / Type	ZJE15		ZJE22		ZJE36		ZJE40	
Structure								
Specification	Size(mm)	Material	Size(mm)	Material	Size(mm)	Material	Size(mm)	Material
1-Material	0.30	Silver plated copper	0.50	Silver plated copper	0.91	Silver plated copper	1.05	Silver plated copper
2-Dielectric	0.88	Low density PTFE	1.38	Low density PTFE	2.50	Low density PTFE	2.85	Low density PTFE
3-Inner shielding	1.00	Silver plated copper strip	1.54	Silver plated copper strip	2.66	Silver plated copper strip	3.05	Silver plated copper strip
4-Outer shielding	1.23	Silver plated copper wire	1.95	Silver plated copper wire	3.11	Silver plated copper wire	3.40	Silver plated copper wire
5-Sheath	1.50	Grey PFA or customized	2.20	Grey PFA or customized	3.60	Grey PFA or customized	4.00	Green FEP or customized
Mechanical and environmental performance								
Static bending radius(mm)	8.00		8.80		18.00		20.00	
Dynamic bending radius(mm)	15.00		22.00		36.00		40.00	
Weight(Kg/m)	0.0054		0.016		0.033		0.036	
Temperature, install and use (°C)	-55~125		-55~125		-55~165		-55~165	
Electrical performance								
Working frequency(GHz)	67		67		40		40	
Cut-off frequency(GHz)	128		83		46		41	
OHM(Ohms)	50		50		50		50	
VOP	80%		81%		82%		82%	
Shielding efficiency(dB)	>90		>90		>90		>90	
Withstand voltage medium(V,DC)	400		400		500		1500	
Attenuation value (typical value at 25 ° C) and transmission power value (typical value at 40 ° C)								
Frequency MHz	dB/100 m	Average power KW	dB/100 m	Average power KW	dB/100 m	Average power KW	dB/100 m	Average power KW
1000	113.7	0.097	63.7	0.097	37.5	0.509	33.5	0.634
2000	161.6	0.068	90.8	0.068	53.4	0.358	47.5	0.447
3000	198.5	0.056	111.9	0.055	65.6	0.291	58.3	0.365
6000	282.9	0.039	160.4	0.039	93.8	0.203	82.8	0.257
8000	328.0	0.034	186.5	0.033	108.9	0.175	95.8	0.222
10000	368.0	0.030	209.8	0.029	122.3	0.156	107.2	0.198
12400	411.3	0.027	235.2	0.026	136.9	0.139	119.7	0.178
18000	499.3	0.022	287.1	0.022	166.7	0.115	144.7	0.147
26500	611.5	0.018	354.0	0.017	204.8	0.093	176.4	0.120
40000	760.4	0.015	444.0	0.014	255.7	0.075	218.1	0.097
50000	857.0	0.014	502.8	0.012	—	—	—	—
67000	1003.0	0.012	593.2	0.010	—	—	—	—
K1	3.557846		1.975832		1.168470		1.054470	
K2	0.001221		0.001221		0.000550		0.000180	
Attenuation of other frequency points	K1*√FMhz+K2*FMHz							