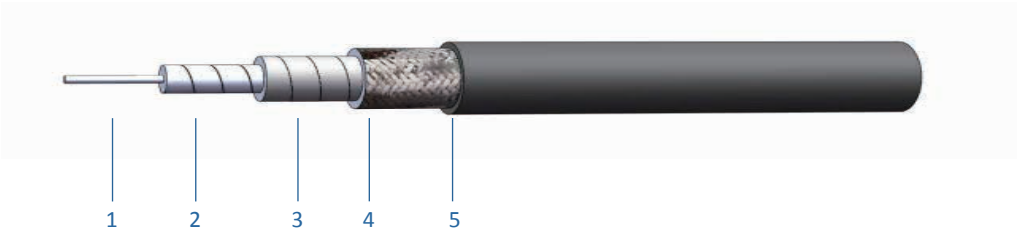
ZJE series Ultra low loss stable amplitude and phase cable assembly



Data / Type	ZJE48		ZJE50		ZJE55		ZJE75	
Structure								
Specification	Size(mm)	Material	Size(mm)	Material	Size(mm)	Material	Size(mm)	Material
1-Material	1.40	Silver plated copper	1.45	Silver plated copper	1.60	Silver plated copper	2.10	Silver plated copper
2-Dielectric	3.80	Low density PTFE	3.99	Low density PTFE	4.30	Low density PTFE	5.70	Low density PTFE
3-Inner shielding	3.95	Silver plated copper strip	4.19	Silver plated copper strip	4.50	Silver plated copper strip	5.95	Silver plated copper strip
4-Outer shielding	4.35	Silver plated copper wire	4.60	Silver plated copper wire	5.10	Silver plated copper wire	6.60	Silver plated copper wire
5-Sheath	4.80	Grey PFA or customized	5.20	Grey FEP or customized	5.60	Grey FEP or customized	7.40	Grey PFA or customized
Mechanical and environmental performance								
Static bending radius(mm)	24.00		26.00		28.00		37.00	
Dynamic bending radius(mm)	48.00		52.00		56.00		74.00	
Weight(Kg/m)	0.055		0.060		0.075		0.116	
Temperature, install and use (°C)	-55~165		-55~165		-55~165		-55~165	
Electrical performance								
Working frequency(GHz)	26.5		26.5		18		18	
Cut-off frequency(GHz)	31		29		26.5		20	
OHM(Ohms)	50		50		50		50	
VOP	83%		83%		83%		83%	
Shielding efficiency(dB)	>90		>90		>90		>90	
Withstand voltage medium(V,DC)	1500		1500		2000		2500	
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	24.1	0.919	23.4	0.919	22.3	1.024	16.7	1.740
2000	34.2	0.646	33.3	0.646	31.6	0.723	23.7	1.227
3000	42.1	0.525	41.0	0.525	38.8	0.589	29.1	1.000
6000	60.1	0.368	58.5	0.368	55.0	0.415	41.4	0.704
8000	69.7	0.317	67.9	0.317	63.6	0.359	47.9	0.608
10000	78.3	0.282	76.3	0.282	71.2	0.320	53.7	0.543
12400	87.6	0.252	85.4	0.252	79.5	0.287	59.9	0.487
16000	100.17	0.221	97.59	0.220	90.5	0.252	68.2	0.427
18000	106.6	0.207	103.8	0.207	96.1	0.238	72.5	0.402
26500	130.8	0.169	127.5	0.169	—	—	—	—
K1	0.750400		0.730000		0.701472		0.526279	
K2	0.000328		0.000328		0.000110		0.000104	
Attenuation of other frequency points	$K1*\sqrt{FMhz}+K2*FMHz$							