

# Z500-2B

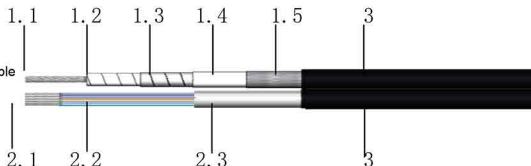
Ultra Low Loss Phase Stable Coax Cable + Low Frequency Signal Dual



Ver A Release Date May,2018

## Features&Benefits

- 74%Vp PTFE Tape+SPC Foil
- 26.5GHz Ultra Low Loss,Durable Test Cable
- Ultra Low Loss Phase Stable Coax Cable & Low Frequency Signal Dual



## Construction Specification

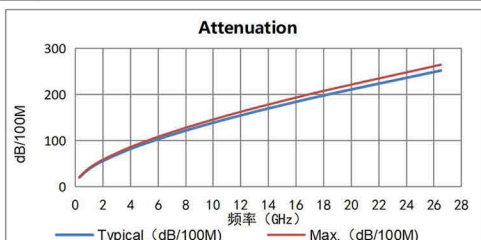
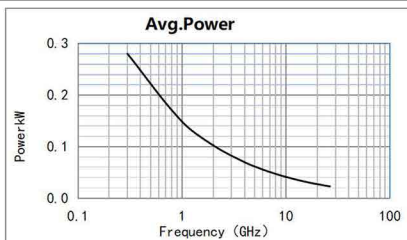
Description	Size (mm)	Tol.	Materials	Description	Size (mm)	Tol.	Materials
1.1 Center conductor	1.02	±0.03	Stranded Silver Plated Copper	2.1 Center conductor	7/0.16	±0.004	Stranded Silver Plated Copper
1.2 Insulation	3.03	±0.03	LD-PTFE	2.2 Insulation	6/0.9	±0.05	FEP
1.3 Outer conductor	3.27	±0.05	SPC-Foil	2.3 Outer shield	2.8	±0.20	AL-Foil
1.4 InnerTape	3.55	±0.05	PTFE				
1.5 Outer shield	4.1	4.15Max	Silver Plated Copper				
3.0 Jacket	6.0*6.0	±0.30	Black PUR				

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	30
Bend Radius:repeated (mm)	60
Weight (g/m)	100
Temp. Operating&Installation (°C)	-55~85
Temp. Storage (°C)	-65~85

## Electrical Specifications

Operation Frequency (GHz)	26.5
Impedance (Ohms)	50
Velocity of Propagation	74%
Shielding Effectiveness (dB)	90
Voltage Withstand (V,DC)	2000



## Attenuation (Typical@25°C&VSWR=1.0) & Power (VSWR=1.0;40°C;Sea Level)

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	18000	26500
dB/100 m	20.5	38.5	55.9	82.0	103.3	121.9	139.0	154.9	170.0	198.1	252.1
Avg.Power kW	0.280	0.149	0.102	0.070	0.055	0.047	0.041	0.037	0.034	0.029	0.023

K1= 1.1370000

K2= 0.0025300

Calculate Attenuation =  $K1 * \sqrt{F \text{ MHz}} + K2 * F \text{ MHz}$