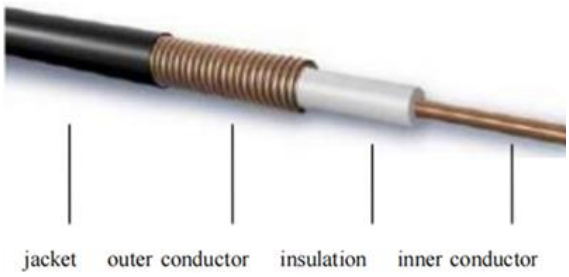
Hangzhou Right Angle Cable Technology Co., Ltd

RA-F12A-WS

Feeder 1/2” RF Cable



Product overview

1/2" Super Flexible Feeder Cable is a type of RF coaxial cable which is used to transfer RF signals from one point to another which allows for precise bending and handling when needed in tight spaces. Typically, 1/2 super flexible cables are used as jumper cables to connect to an antenna of transmission equipment.

Construction

Inner Conductor	Material	CCA
	Diameter	3.60 mm ± 0.05 mm
Insulation	Material	FPE
	Diameter	9.20 mm ± 0.15 mm
Outer Conductor	Material	Helical Corrugated Copper Tube
	Braid Coverage	12.20 mm ± 0.15 mm
Jacket	Material	LLDPE or Fire- Retardant PE
	Diameter	13.60 mm ± 0.20 mm

Mechanical Characteristics

Bending Radius	Single Bend	17 mm
	Repeated Bend	55 mm
Tensile Strength		750 N
Cable Weight		150 KG/KM
Recommended temperature	Storage	-70 to +85°C
	Installation	-40 to +60°C
	Operating	-55 to +85°C

Test Data

Inner Conductor DC Resistance	2.89 Ω/KM
Outer Conductor DC Resistance	5.68 Ω/KM
Characteristic Impedance	50 Ω ± 1.5 Ω
Capacitance	82 p F/m
Velocity	84 %
Dielectric Strength	3.0 KV
Insulation Resistance	＞1 x 10^4 Ω/KM
Peak Power Rating	16 KV
Peak Voltage	1400 V
Cut-Off Frequency	13 GHZ
Low Temperature Bending	Not cracked
Thermal Shock	Not cracked
Operating Temperature	- 20°C to +60°C (–4°F to 140°F)
Storage Temperature	- 10°C to +40°C (14°F to 104°F)

Technical Test [@68°F(20°C)]

Frequency(MHZ)	Attenuation(dB/100m)	Average Power(KV)
200	4.91	2.00
450	7.59	1.38
800	10.40	1.01
900	11.20	0.95
1000	11.80	0.89
1500	14.90	0.70
1800	16.60	0.63
2000	17.60	0.59
2200	18.27	0.56
2500	19.20	0.52
3000	22.40	0.46

Note:
For flame-retardant jack cables, the recommended temperature is:
Storage: - 30 C to+80 C, installation: - 25 C to+60 C, operating temperature: - 30 C to+80 C