

ET-F78C-01

Feeder 7/8" RF Cable



Product overview

7/8" 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, 7/8 super flexible cables are used as jumper cables to connect to an antenna of transmission equipment.

Construction

Inner Conductor	Material	Copper Tube
	Diameter	9.00 mm ± 0.10 mm
Insulation	Material	FPE
	Diameter	22.70 mm ± 0.20 mm
Outer Conductor	Material	Annular Corrugated Copper Tube
	Braid Coverage	24.90 mm ± 0.25 mm
Jacket	Material	LLDPE or Fire- Retardant PE
	Diameter	27.50 mm ± 0.25 mm

Mechanical Characteristics

Bending Radius	Single Bend	120 mm
	Repeated Bend	250 mm
Tensile Strength		1400 N
Cable Weight		400 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	2.30 Ω/KM
Outer Conductor DC Resistance	1.86 Ω/KM
Characteristic Impedance	50 Ω ± 2 Ω
Capacitance	76 p F/m
Velocity	88 %
Dielectric Strength	10.0 KV
Insulation Resistance	> 4 x 10 ⁴ Ω/KM
Peak Power Rating	90 KV
Peak Voltage	3200 V
Cut-Off Frequency	5.2 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	1.72	5.26
450	2.65	3.41
800	3.63	2.48
900	3.88	2.34
1000	4.12	2.19
1500	5.18	1.74
1800	5.75	1.57
2000	6.11	1.48
2200	6.46	1.40
2500	6.95	1.30
3000	7.76	1.16

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