

RA-F78C-WS

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