

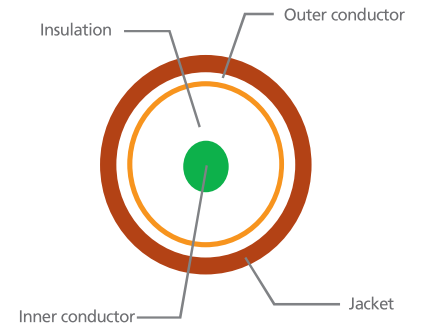
1-5/8" FLEXIBLE RF COAXIAL CABLE

Application

- Main feed line

Features

- Ultra Low Attenuation
- Complete Shielding
- Outstanding Intermodulation Performance
- RoHS compliance
- Low VSWR
- High Power Rating
- Wide Range of Application



Physical Specifications

| Inner Conductor | |
|--------------------|--------------------------------|
| Material | Helical Corrugated Copper Tube |
| Diameter(mm) | 17.3 ± 0.15 |
| Outer Conductor | |
| Material | Annular Corrugated Copper Tube |
| Diameter(mm) | 46.5 ± 0.30 |
| Insulation | |
| Material | Foam Polyethylene |
| Diameter (mm) | 42.7 ± 0.30 |
| Outer Jacket | |
| Material | LLDPE / Flame-Retardant PE |
| Min. Thickness(mm) | >1.3 |
| Diameter(mm) | 49.6 ± 0.30 |

Mechanical Characteristics

| | |
|------------------------|--|
| Bending Radius(mm) | Single Bend ~ 280 Repeated Bend ~ 500 |
| Tensile Strength(N) | 3000 |
| Cable Weight(kg/km) | 1100 |
| Recommended Temp. (°C) | Storage -70~+85 Installation -40~+60 Operating -55~+85 |

Electrical Characteristics

| | |
|--------------------------------------|--------------------|
| Inner conductor DC Resistance (Ω/km) | 1.55 |
| OuterConductor DC Resistance (Ω/km) | 0.68 |
| Characteristic impedance (Ω) | 50 ± 2.0 |
| Capacitance (pF/m) | 77 |
| Velocity (%) | 86 |
| Dielectric strength (KV) | 15.0 |
| Insulation resistance (MΩ/km) | >1x10 ⁴ |
| Peak Power Rating (KV) | 310 |
| Peak Voltage (V) | 5600 |
| Cut-off Frequency (GHZ) | 3.0 |

Attenuation and Average Power

| Frequency (MHz) | Attn (@20°C dB/100m) | Ave. power (kv) |
|-----------------|----------------------|-----------------|
| 200 | 0.99 | 11.30 |
| 450 | 1.69 | 7.18 |
| 800 | 2.28 | 5.15 |
| 900 | 2.49 | 4.97 |
| 1000 | 2.69 | 4.52 |
| 1500 | 3.49 | 3.54 |
| 1800 | 3.82 | 3.17 |
| 2000 | 4.06 | 2.96 |
| 2200 | 4.49 | 2.87 |
| 2500 | 4.69 | 2.58 |
| 2700 | 5.09 | 2.40 |

VSWR

| Frequency (MHz) | VSWR ±3 |
|-----------------|---------|
| 900MHz~1100MHz | 1.15 |
| 1800MHz~2500MHz | 1.20 |

Ordering information

| Part No. | Description |
|-----------------|---|
| RRF-1587002-27H | Low-Loss Foam Dielectric Flexible PE Feeder Cable, Black, 500m |
| RRF-1587004-27H | Low-Loss Foam Dielectric Flexible FR/PE Feeder Cable, Black, 500m |