

PRODUCT SPECIFICATION

50 Ohm Coaxial Feeder Cable

RF50Z 1/4"

PRODUCT DESCRIPTION



- The high-performance of attenuation allows coaxial cable to be used in different RF systems, such as 3G, 4G mobile communication.
- Wide range of applications, such as indoor distribution, broadcast, various base stations, wireless cellular, and others.
- Lower VSWR, perfect shielding effectiveness, and extraordinary inter-modulation performance lead to fewer energy loss and outer interference.

CONSTRUCTION

| | | |
|-----------------|--------------------------|----------|
| Inner conductor | Copper Clad Aluminum | Φ 2.60mm |
| Insulation | Physically foamed PE | Φ 6.35mm |
| Outer conductor | Ring corrugated copper | Φ 7.75mm |
| Jacket | Flame retardant black PE | Φ 8.80mm |

MECHANICAL PROPERTIES

| | | |
|-----------------------------------|----|-----|
| Min. single bending radius | mm | 30 |
| Min. repeated bending radius | mm | 76 |
| Max. tensile force | N | 910 |
| Recommended maximum clamp spacing | m | 1 |

ELECTRICAL PROPERTIES

| | | |
|-----------------------|-------------|-------|
| Impedance | Ω | 50±1 |
| Nominal capacitance | pF/m | 76.8 |
| Nominal inductance | μH/m | 0.19 |
| Propagation velocity | % | 84 |
| DC breakdown voltage | kV | 2.2 |
| Insulation resistance | MΩ•km | >5000 |
| Peak power rating | kW | 12.1 |
| Cut-off frequency | GHz | 15.8 |
| Screening attenuation | dB | >120 |
| PIM | dBc@(2×20W) | ≤-160 |

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TRANSMISSION PROPERTIES

| Frequency | Attenuation | Power |
|-----------|--------------------------|-----------|
| MHz | @20°C, dB/100m(dB/100ft) | @20°C, kW |
| 100 | 4.05(1.23) | 1.79 |
| 450 | 8.88(2.17) | 0.82 |
| 690 | 11.17(3.41) | 0.69 |
| 800 | 12.10(3.69) | 0.60 |
| 900 | 12.80(3.90) | 0.57 |
| 1000 | 13.60(4.15) | 0.53 |
| 1800 | 18.90(5.76) | 0.38 |
| 2000 | 20.00(6.10) | 0.36 |
| 2200 | 21.08(6.43) | 0.34 |
| 2400 | 22.14(6.75) | 0.33 |
| 2500 | 22.66(6.91) | 0.32 |
| 2600 | 23.19(7.07) | 0.31 |
| 2700 | 23.70(7.23) | 0.30 |
| 3000 | 25.17(7.67) | 0.29 |

Attenuation values may be with a tolerance of 5%.

VSWR

| | | |
|--------------|---|------|
| 690-960MHz | ≤ | 1.12 |
| 1700-2200MHz | ≤ | 1.12 |
| 2300-2400MHz | ≤ | 1.12 |
| 2500-2690MHz | ≤ | 1.15 |

ENVIRONMENTAL PROPERTIES

| | |
|-----------------|----------------------------------|
| Flame retardant | IEC 60332-1, IEC60332-3C, UL CMR |
| 2011/65EU(ROHS) | Compliant |

Note: According to customers' requirements, the flame retardant of cable can meet one or all of the standard of IEC 60332-1, IEC60332-3C, UL CMR.