



Low Power FM Antenna Systems 2022

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J3YF

J3YF 3 ELEMENT FM YAGI ANTENNA

JAMPRO Yagi 3 Element Antenna Hot-Dip Galvanized Steel Directional Radiation Pattern

Suitable for Medium and High Power FM Stacked Array

ELECTRICAL FEATURES

| | |
|----------------------|------------------------------------|
| Band: | 87.5 – 108 MHz |
| Bandwidth: | FM Band |
| Average Gain: | 4.5 dBd (6.65 dBi) |
| VSWR: | < 1.3:1 |
| Polarization: | Vertical (Horizontal upon Request) |
| Max Power: | 5000 W (Single Carrier) |
| Connector: | 7/8" EIA |
| Dimensions: | 54"x68"x3" / 133x173x8 cm |
| Net weight: | 26.5 lbs/12 kg |



MECHANICAL FEATURES

Materials: Body and Bracket hot dip galvanized steel, Stainless steel hardware, Teflon isolators, silicone O-Rings

Mounting:

The antenna is supplied with pipe mounting for both horizontal and vertical polarization.

Standard option for pole

Ø 3.5" to 4.5" / 90 to 114mm

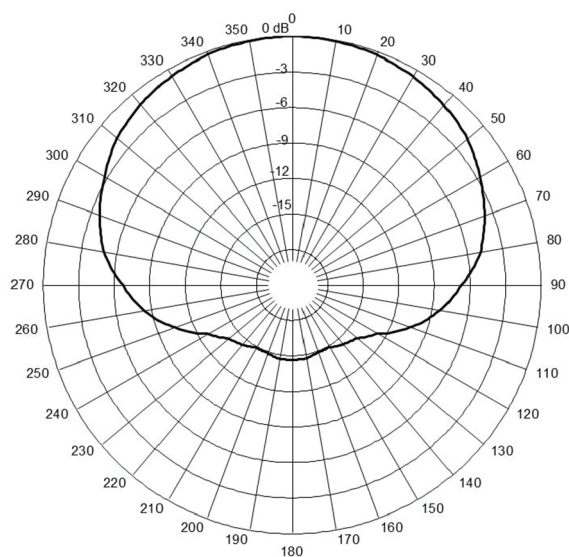
Also available on request option for pole

Ø 2.36" to 2.99" / 60 to 76mm

Mounting Brackets: Included

Distance Between Antennas: 2.5m - 3m / 8.25 ft - 9.84 ft

These directional antennas can be used in vertical or horizontal polarization to set up systems having directional, semi-directional and Omni directional diagrams.

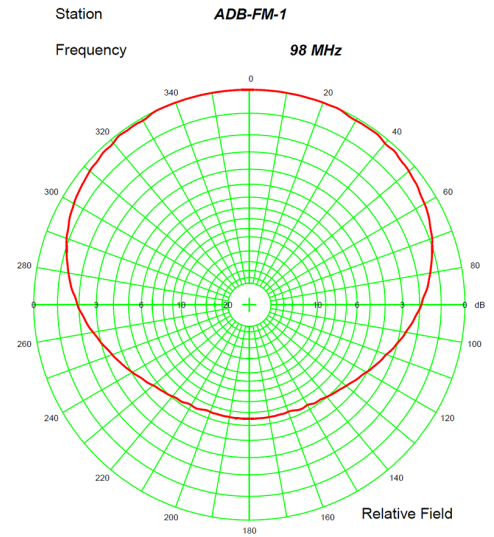


All specifications subject to change without notice

ADB-FM1

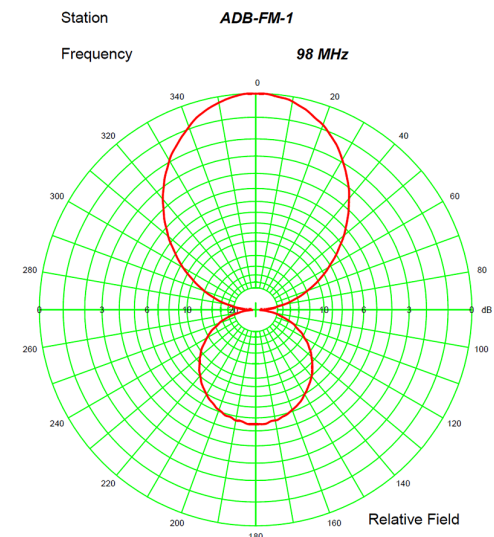
The ADB-FM1 Vertically Polarised Broadband FM Dipole Antenna provides a simple solution. The design focuses on low power FM radio stations requiring up to 1 kW input. It supports **2, 4, 6, or 8 antenna bays** or tiers. These options will deliver a gain of **5, 8, 9.8 or 11 dB**, respectively. The antenna is light and straightforward to erect.

Both the vertical and horizontal patterns are shown below, along with an image of a single element. Please note that the antenna elements construction is Aluminium. Each element includes protection with **Alodine****, which is a military-grade coating. It protects against corrosion, significantly extends the product lifetime and, more importantly, guards against degraded antenna performance.



HRP Max/Mean Gain **1.6 power ratio** , & **2 dB**

Azimuth Cut



HRP Max/Mean Gain **3.5 power ratio** , & **5.5 dB**

Elevation Cut

GENERAL SPECIFICATIONS

| | |
|-----------------------------------|------------------------------------|
| Frequency Band: | 87.5 - 108 MHz |
| Antenna Gain: | 2 dBd @ 98MHz |
| Polarisation: | Vertical |
| Impedance: | 50 Ω |
| Input Connector | 7-16 DIN Female (Opt. N, EIA 7/8") |
| Maximum Power Rating | 1kW |
| VSWR: | ≤ 1.4:1 |
| Half Power Beam Width | H Plane 180° V Plane 76° |
| Materials: | Aluminum (Alocrom Protected) |
| System Weight for 2,4,6,& 8 bays. | 12, 19, 30 & 50 Kgs |
| Dimensions | 1395 x 880 x 50 mm |

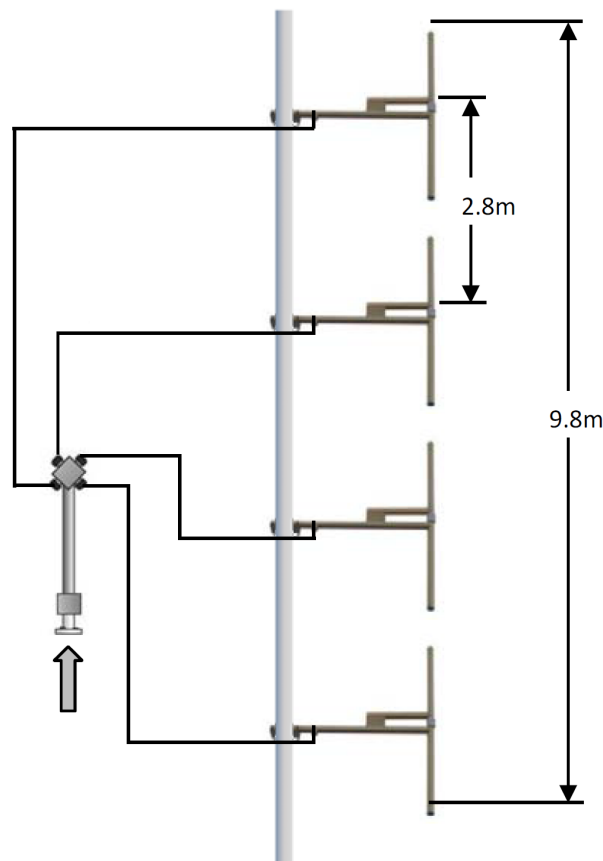
- Specifications are typical and subject to change without notice.
- ** Alodine is a chromate conversion coating chemically applied to aluminium that provides corrosion protection. It is also applied when electrical conductivity is required like in this case.

| # of Bays | Gain (dB) | System Height (m) | System Weight (Kg) ¹ |
|-----------|----------------------|-------------------|---------------------------------|
| 2 | 5.0 PK or 3.53 RMS | 4.2 | 12 |
| 4 | 8.0 PK or 5.65 RMS | 9.8 | 19 |
| 6 | 9.8 PK or 6.93 RMS | 15.4 | 30 |
| 8 | 11.00 PK or 7.78 RMS | 21.0 | 50 |

(1- without mounting hardware)

Mounting Instructions

- The suggested diameter of the mounting pole is between 60 and 110 mm.
- Should the dipoles be mounted close to a large tower or metal structure, then the radiation lobe may be altered and the VSWR might increase above 1.4:1.
- The suggested distance between the dipoles for a broadband system is 2.8m with the overall length of a 4 bay system at 9.8m.





JCPB FM BROADBAND BROADCAST ANTENNA

The JAMPRO JCPB side mount antenna is a broadband version of the PENETRATOR antenna, which has become an industry standard for quality and performance. Each bay consists of a PENETRATOR style radiating element supported by a galvanized steel mounting bracket; standard round leg mounting brackets for a uniform face tower are included with each antenna. Dipoles are stainless steel. Silver plated inner conductor connectors are used throughout for maximum contact life and minimum power loss.



Dipole Power rating 2.5kW (JCPB-M) | 5kW (JCPB-H)

Ideal for broadband & multi frequency applications

Excellent VSWR & bandwidth without field tuning

Circular polarization

DC ground at each bay & balun radomes available

Electrical Specifications

| | |
|---------------------|----------------------|
| Frequency | Band II 87.5-108 MHz |
| Circularity | 2.0 dB (Free Space) |
| Polarization | Circular |
| Impedance | 50 ohm |
| VSWR | 1.25:1 |



| # of Bays | Power Gain (HPOL) (times) | Gain (HPOL) (dB) | Max Power Rating | |
|-----------|------------------------------|------------------|------------------|---------|
| | | | JCPB-M | JCPB-H* |
| 1 | .45 | -3.4 | 2.5 kW | 5 kW |
| 2 | .90 | -0.4 | 5 kW | 10 kW |
| 3 | 1.38 | 1.4 | 7.5 kW | 15 kW |
| 4 | 1.95 | 2.9 | 10 kW | 20 kW |
| 6 | 3.0 | 4.8 | 10 kW | 30 kW |
| 8 | 4.3 | 6.4 | 10 kW | 40 kW |

NOTES:

1. All inputs EIA flange, female.
2. Power derating occurs above 2,000 ft. elevation.
3. Power and dB gains are typical RMS gains for horizontal and vertical components.
4. Special mounting brackets available.
5. Other combinations of EIA inputs and Higher power ratings available.
6. Free space azimuth circularity is 2.0 dB.
7. Polarization is right hand, clockwise, circular.
8. Power gain is based on half wave dipole in free space.

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation (RFR), JAMPRO ANTENNAS, INC. cannot accept any responsibility in this matter. The station must examine and determine its status based on each individual situation. For reduced low angle radiation near the tower, a low RFR model of this antenna is available. Contact the factory for pricing data and further details.

*All specifications subject to change without notice. Higher power ratings available



LOW POWER PENETRATOR

The JAMPRO JLLP antenna has been designed to meet the needs of low power and educational stations that require excellent performance on a low budget. This antenna uses the same basic design as the JAMPRO PENETRATOR series of side-mount antennas, which set the industry standard for FM antennas. By using an external and non-pressurized feed system, manufacturing costs are kept to a minimum. Each bay is fed with flexible cable. Configurations with two or more bays are fed through a power divider and cable system that has a 7/8" EIA flange input (female). The antenna elements are constructed of high strength marine brass.



Power rating 4kW maximum

Outstanding VSWR without field tuning

Available for 88-108 MHz

Electrical deicers available

VSWR 1.1:1 +/- 150 kHz

| TYPICAL SPECIFICATIONS | | | | | |
|------------------------|------------|-----------|-------------|-------------------|----------------|
| # of Bays | Power Gain | Gain (dB) | Input Power | Net Weight (lbs.) | Windload (lbs) |
| 1 | 0.475 | -3.23 | 1 kW | 14 | 36 |
| 2 | 0.955 | -0.2 | 2 kW | 34 | 82 |
| 3 | 1.5 | 1.76 | 3 kW | 50 | 114 |
| 4 | 2.05 | 3.12 | 4 kW | 64 | 146 |

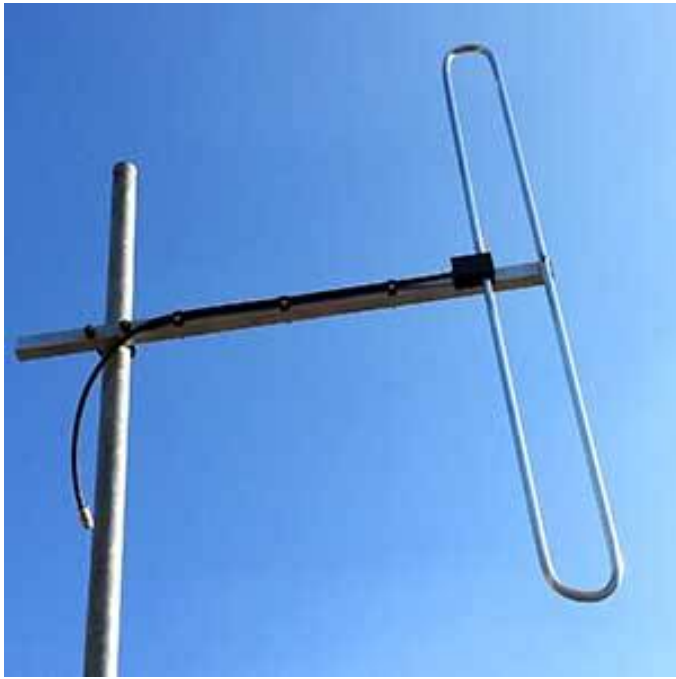
*Values provided average/RMS gains; All other stated gains are Peak gains. Gains do not include losses for feed system beam tit or null fill.

Non-ionizing Radiation

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation, JAMPRO ANTENNAS, INC. cannot accept any responsibility in this matter. The station must examine and determine its status based on each individual situation.

*All specifications are subject to change without notice.

Band II Folded Dipole Antenna

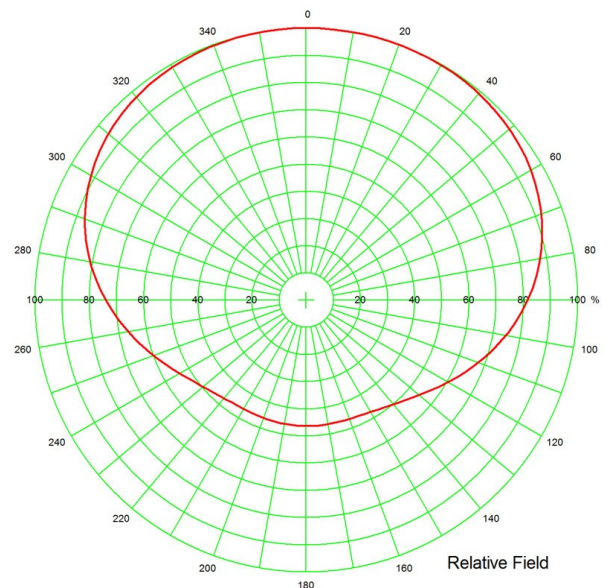


| Typical Electrical Specifications | |
|-----------------------------------|-------------------|
| Frequency Range | 87.5MHz to 108MHz |
| Return Loss dB | <-14dB |
| VSWR | <1.5:1 |
| HRP Beamwidth | 203 |
| Front to back ratio | 6dB |
| Polarization | Vertical |
| Connector | Type "N" |

| Mechanical Data | |
|--------------------|--|
| Dipole | Ø 15.8mm (5/8") aluminum with 1.6mm (16swg) wall |
| Support boom | 31.75mm (1 1/4") square aluminum with 1.6mm (16swg) wall |
| Weight | 6kg / 14lbs |
| Weather protection | Feed point potted in polyurethane resin |

| 3dB Beamwidth and Gain Table | | | | |
|------------------------------|----------|---------------|---------------------------------------|--------|
| No of Bays | Gain dBd | Beamwidth VRP | Max Power | Kg/lbs |
| 1 | 2.8 | 73 | 300W | 6/14 |
| 2 | 5.1 | 29 | 300W (limited by input power divider) | 25/55 |
| 4 | 8.9 | 13 | 300W (limited by input power divider) | 35/77 |
| 6 | 10.4 | 8.5 | 300W (limited by input power divider) | 40/89 |
| 8 | 11.7 | 6.4 | 300W (limited by input power divider) | 55/122 |

N.B. If higher power ratings are required please contact the factory





JLCP LOW POWER ANTENNA

The JAMPRO JLCP is a low power antenna designed specifically for Omni-Directional low power applications such as LPFM, Translator and Booster stations. The simplicity of the JLCP helix design gives low power stations the flexibility needed to meet their individual requirements. It offers Stainless Steel Construction. A stacking harness is included when multiple bay arrays are ordered. The JLCP is field tunable from 88 to 108 MHz. The antenna features: VSWR 1.5:1 or better. Standard 500 watt input rating with 1kW & 2 kW available. Provided for 2" OD pole mount. Optional special brackets available, contact factory.

- Radomes Available
- Stainless steel construction
- 500 Watts input power option 1 & 2 kW
- Circularly polarized
- Low maintenance
- Easy to install
- Field tunable
- VSWR: 1.5:1 or better



| # of Bays | Gain (Times) | Gain (dB) | Input Size 500 Watts | Input Size 1000 Watts | Input Size 2000 Watts | Net Weight (lbs.) | Wind load (lbs) |
|-----------|--------------|-----------|----------------------|-----------------------|-----------------------|-------------------|-----------------|
| 1 | 0.46 | -3.37 | Type "N" | 7-16 DIN | Not Avail. | Contact Factory | |
| 2 | 0.955 | -0.02 | Type "N" | 7/8" EIA | 7/8" EIA | | |
| 3 | 1.5 | 1.76 | Not Available | 7/8" EIA | 7/8" EIA | | |
| 4 | 2.05 | 3.12 | Type "N" | 7/8" EIA | 7/8" EIA | | |
| 5 | 2.55 | 4.06 | Not Available | 7/8" EIA | 7/8" EIA | | |
| 6 | 3.07 | 4.87 | Not Available | 7/8" EIA | 7/8" EIA | | |
| 7 | 3.57 | 5.68 | Not Available | 7/8" EIA | 7/8" EIA | | |
| 8 | 4.1 | 6.12 | Not Available | 7/8" EIA | 7/8" EIA | | |

*All specifications are subject to change without notice.



JAVA FM Broadband Log Periodic ANTENNA

JAMPRO JAVA FM broadband log periodic antenna system is one of the finest available to the broadcasting industry. Ideal for High Gain Directional applications.

It is Broadband with Low VSWR across the entire FM Band. (87.5 to 108 MHz).

The antenna system consists of log periodic antenna assemblies, power divider, feed cables, mounting brackets/hardware to provide secure mounting to the tower.

Custom directional azimuth pattern and FCC Certification available on the Jampro full-scale test range to confirm FCC DA/ Customer's requirements.



- **FM Band:** 87.5-108 MHz
- **Element Gain:** 6.5 dBd
- **Input power:** 5 kW
- **VSWR:** $\leq 1.3:1$
- **FM Band Polarization:** Vertical, Horizontal or Slant
- **Input Connector:** 7/8" EIA

Aluminum or Hot dipped Galvanized-optional
Custom directional patterns



500 WATTS, FM BANDPASS FILTER

The JAMPRO RF SYSTEM Series RCBC-xTx*-FM Low Power Combine Bandpass Filters are designed to provide optimum performance in a small package size. The filters utilize capacitively loaded copper center conductors inside three inch aluminum cavities to ensure low passband loss.

Two, three, or four section filters are available to meet the required rejection specifications. Wide passband bandwidth is maintained for all designed to ensure no signal degradation. This design can be used for input power levels to 500 watts.

Type "N", 7-16 DIN or 7/8" EIA connectors are available as required by the applications.

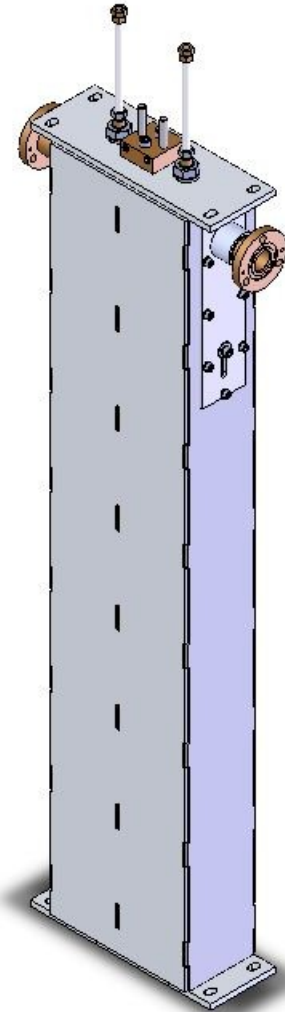


Photo shown is for RCBC-1T2-FM

RCBC-XTX-FM Typical Specifications

| | | |
|------------------|--------------------------|---------------------|
| Type | 2, 3, 4 Section Combine | |
| Frequency | 88 to 108 MHz | |
| Power | 500 watts Max. | |
| VSWR | 1.12:1 Max \pm 150 kHz | |
| Rejection | | |
| | 2-Section | 30 dB \pm 4.0 MHz |
| | 3-Section | 30 dB \pm 1.6 MHz |
| | 4-Section | 30 dB \pm 1.0 MHz |



1500 WATTS, FM BANDPASS FILTER

The JAMPRO RF SYSTEM Series RCBC-x0x*-FM Low Power Comblne Bandpass Filters are designed to provide optimum performance in a small package size. The filters utilize capacitively loaded copper center conductors inside four inch aluminum cavities to ensure low passband loss.

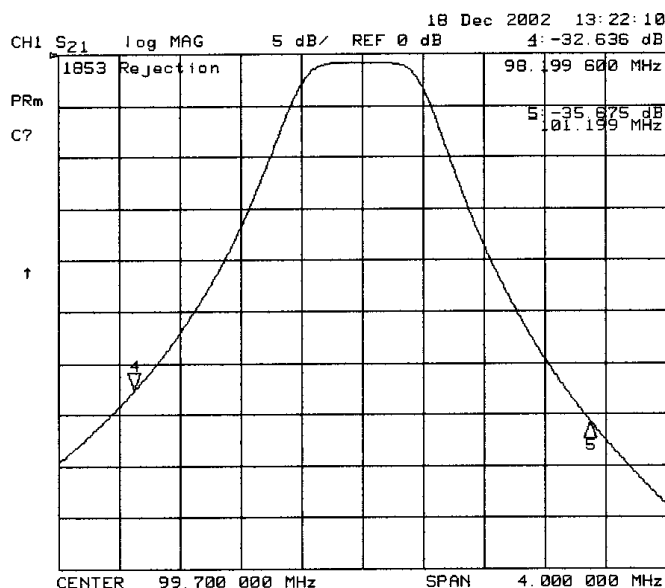
Two, three, or four section filters are available to meet the required rejection specifications. Wide passband bandwidth is maintained for all designed to ensure no signal degradation. This design can be used for input power levels to 1.5 kW.

Type "N", 7-16 DIN or 7/8" EIA connectors are available as required by the applications. Filters are unflanged. Flanged available upon request.



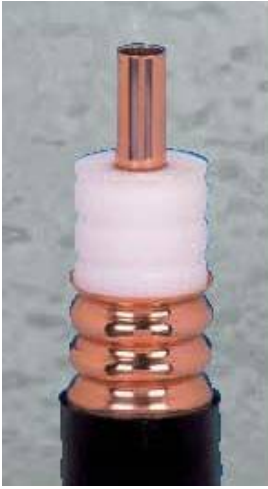
RCBC-X0X-FM Typical Specifications

| | |
|-----------------------|--|
| Type | 2, 3, 4 Section Comblne |
| Frequency | 88 to 108 MHz |
| Power | 1.5 kW Max. |
| VSWR | 1.2:1 Max ± 150 kHz |
| Insertion Loss | 1.2 dB Max ± 200 kHz 0.5 dB Typical |
| Rejection | |
| 2-Section | 30 dB ± 4.0 MHz |
| 3-Section | 30 dB ± 1.6 MHz |
| 4-Section | 30 dB ± 1.0 MHz |



Rejection Plot 3-section filter

Coaxial Cable



7/8" Foam-Dielectric Coaxial Cable Corrugated Copper – 50 Ohm

DESCRIPTION

Low Loss Cable, standard jacket

Low Loss Cable, fire retardant, halogen free jacket

CONSTRUCTION

- **Inner conductor**
 - Material smooth copper tube
 - Diameter, in (mm) 0.37 (9.3)
- **Dielectric**
 - Material microcell gas-injected PE
 - Diameter, in (mm) 0.93 (23.5)
- **Outer conductor**
 - Material corrugated copper
 - Diameter, in (mm) 0.98 (25.0)
- **Outer sheath**
 - Material Durathene™
 - Thickness, in (mm) 0.06 (1.4)
 - Diameter, in (mm) 1.10 (28.0)

MECHANICAL CHARACTERISTICS

- **Minimum bending radius**
 - a) Single bending, in (cm) 4 (10)
 - b) 15 repeated bends, in (cm) 10 (25)
- **Maximum pulling strength, lb (kg) 330 (150)**
- **Recommended temperature range**
 - Storage -94 to +185°F (-70 to +85°C)
 - Installation -40 to +140°F (-40 to +60°C)
 - Operation -67 to +185°F (-55 to +85°C)
- **Maximum length per hoisting grip, ft (m) 230 (70)**
- **Maximum hanger spacing, ft (m) 4 (1.2)**
- **Flat plate crush resistance, lb/in (kg/mm) 79 (1.4)**
- **Bending moment, lb-ft (N*m) 8.6 (11.6)**
- **Weight, lb/ft (kg/m) 0.33 (0.50)**

ELECTRICAL CHARACTERISTICS

- **Characteristic impedance, Ω 50 ± 1**
- **Nominal capacitance, pF/ft (pF/m) 23 (75)**
- **Relative propagation velocity, % 89**
- **Inductance, μH/ft (μH/m) 0.057 (0.187)**
- **DC-resistance at 68°F (20°C)**
 - Inner conductor, Ω/1000 ft (Ω/1000 m) 0.41 (1.34)
 - Outer conductor, Ω/1000 ft (Ω/1000 m) 0.30 (1.0)
- **RF peak voltage, kV 2.9**
- **RF peak power, kW 86**
- **Cut-off frequency, GHz 5.1**
- **Insulation resistance, MΩ/km ≥5000**

ELECTRICAL CHARACTERISTICS

• Attenuation and power rating

| Frequency (MHz) | Attenuation at 68°F (20°C)* (dB/100 ft) (dB/100m) | | Mean power rating** (kW) |
|-----------------|---|-------|--------------------------|
| 10 | 0.108 | 0.353 | 25.46 |
| 20 | 0.153 | 0.502 | 17.93 |
| 30 | 0.188 | 0.616 | 14.60 |
| 80 | 0.310 | 1.02 | 8.85 |
| 100 | 0.348 | 1.14 | 7.89 |
| 150 | 0.429 | 1.41 | 6.40 |
| 200 | 0.498 | 1.63 | 5.51 |
| 300 | 0.615 | 2.02 | 4.46 |
| 400 | 0.716 | 2.35 | 3.83 |
| 450 | 0.762 | 2.50 | 3.60 |
| 500 | 0.805 | 2.64 | 3.41 |
| 600 | 0.888 | 2.91 | 3.09 |
| 700 | 0.964 | 3.16 | 2.85 |
| 800 | 1.04 | 3.40 | 2.65 |
| 894 | 1.10 | 3.61 | 2.49 |
| 960 | 1.14 | 3.75 | 2.40 |
| 1000 | 1.17 | 3.83 | 2.35 |
| 1500 | 1.46 | 4.79 | 1.88 |
| 1700 | 1.56 | 5.13 | 1.75 |
| 1800 | 1.61 | 5.30 | 1.70 |
| 1880 | 1.65 | 5.43 | 1.66 |
| 2000 | 1.71 | 5.62 | 1.60 |
| 2170 | 1.79 | 5.88 | 1.53 |
| 2200 | 1.81 | 5.92 | 1.52 |
| 2300 | 1.85 | 6.07 | 1.48 |
| 2400 | 1.90 | 6.22 | 1.45 |
| 2500 | 1.94 | 6.37 | 1.41 |
| 3000 | 2.15 | 7.06 | 1.27 |
| 4000 | 2.54 | 8.33 | 1.08 |
| 6000 | - | - | - |

* Nominal values

** Ambient temperature = 104°F (40°C); temperature of inner conductor = 212°F (100°C); VSWR = 1.0; no solar loading

Coaxial Cable



7/8" Coaxial Connectors

A-Series

DESCRIPTION

- N-male, MonoBlock, O-ring
- N-female, MonoBlock, O-ring
- 7/16 DIN male, MonoBlock, O-ring
- 7/16 DIN female, MonoBlock, O-ring

Standard Series

DESCRIPTION

- N-male, MonoBlock, O-ring
- N-female, MonoBlock, O-ring
- 7/16 DIN male, MonoBlock, O-ring
- 7/16 DIN female, MonoBlock, O-ring

ELECTRICAL

- **Nominal impedance, Ω** 50
- **Return loss @ 2.5 GHz, dB** -35
- **3rd order intermodulation product, dBc** -163
- **Temperature range** -40°F to +140°F (-40°C to +60°C)
- **Water immersion testing** IP67 & IP68
- **Materials**
 - External parts Passivated silver plated or electroless nickel plated brass
- **Outer contact** Passivated silver plated brass
- **Inner contact** Passivated silver plated Cu-Be
- **Dielectric** TXP / PTFE
- **O-rings** Silicone rubber

ACCESSORIES

DESCRIPTION

Tools

- Cable Prep Tool, MonoBlock Connectors
- Ground Kit Tool
- Torque Wrench, Back Nut
- Torque Wrench, 7/16 DIN Coupler

Hoisting Grip

- Lace-Up Hoisting Grip
- Pre-Laced Hoisting Grip

Hangers

- Butterfly Hangers, Kit of 10
- Snap-In Hangers, Kit of 10
- Snap-Stack Hangers, Kit of 10

Coax Support Blocks

- Mini Coax Support Blks, Kit of 10

DESCRIPTION

Angle Adapters, Stainless Steel

- Universal SST Angle Adaptor, Kit of 10
- SST Angle Adaptor, Kit of 10

Grounding Kits

- Standard Grounding Kit
- Clip-On Grounding Kit

Weatherproofing

- Standard Weatherproofing Kit

Boots and Cushions

- 4" Boot Assembly, 1 hole
- 4" Boot Assembly, 3 hole
- Standard Port Cushion, 1 hole
- 4" Boot Assembly, Cushion not included
- 5" Boot Assembly, Cushion not included

Coaxial Cable



1/2" Foam-Dielectric Coaxial Cable Corrugated Copper – 50 Ohm

DESCRIPTION

Low Loss Cable, standard jacket

Low Loss Cable, fire retardant, halogen free jacket

CONSTRUCTION

| | |
|--------------------------|---------------------------|
| • Inner conductor | |
| Material | copper clad aluminum |
| Diameter, in (mm) | 0.189 (4.8) |
| • Dielectric | |
| Material | microcell gas-injected PE |
| Diameter, in (mm) | 0.488 (12.4) |
| • Outer conductor | |
| Material | corrugated copper |
| Diameter, in (mm) | 0.539 (13.7) |
| • Outer sheath | |
| Material | Durathene™ |
| Thickness, in (mm) | 0.043 (1.1) |
| Diameter, in (mm) | 0.630 (16.0) |

MECHANICAL CHARACTERISTICS

| | |
|---|------------------------------|
| • Minimum bending radius | |
| a) Single bending, in (cm) | 2.8 (7) |
| b) 15 repeated bends, in (cm) | 5 (12.5) |
| • Maximum pulling strength, lb (kg) | 220 (100) |
| • Recommended temperature range | |
| - Storage | -94 to +185°F (-70 to +85°C) |
| - Installation | -40 to +140°F (-40 to +60°C) |
| - Operation | -67 to +185°F (-55 to +85°C) |
| • Maximum length per hoisting grip, ft (m) | 230 (70) |
| • Maximum hanger spacing, ft (m) | 3 (0.9) |
| • Flat plate crush resistance, lb/in (kg/mm) | 106 (1.9) |
| • Bending moment, lb-ft (N•m) | 2.6 (3.5) |
| • Weight, lb/ft (kg/m) | 0.16 (0.24) |

ELECTRICAL CHARACTERISTICS

| | |
|---|--------------|
| • Characteristic impedance, Ω | 50 \pm 1 |
| • Nominal capacitance, pF/ft (pF/m) | 23 (76) |
| • Relative propagation velocity, % | 88 |
| • Inductance, μH/ft (μH/m) | 0.058 (0.19) |
| • DC-resistance at 68°F (20°C) | |
| - Inner conductor, Ω /1000 ft (Ω /1000 m) | 0.45 (1.48) |
| - Outer conductor, Ω /1000 ft (Ω /1000 m) | 0.62 (2.04) |
| • RF peak voltage, kV | 1.6 |
| • RF peak power, kW | 25.6 |
| • Cut-off frequency, GHz | 9.8 |
| • Insulation resistance, MΩ/km | \geq 5000 |

ELECTRICAL CHARACTERISTICS

• Attenuation and power rating

| Frequency (MHz) | Attenuation at 68°F (20°C)* (dB/100 ft) | | Mean power rating** (kW) |
|-----------------|---|-------|--------------------------|
| 10 | 0.205 | 0.672 | 11.74 |
| 20 | 0.291 | 0.954 | 8.28 |
| 30 | 0.357 | 1.17 | 6.74 |
| 50 | 0.463 | 1.52 | 5.19 |
| 88 | 0.619 | 2.03 | 3.88 |
| 100 | 0.661 | 2.17 | 3.63 |
| 108 | 0.688 | 2.26 | 3.49 |
| 150 | 0.815 | 2.67 | 2.94 |
| 174 | 0.880 | 2.89 | 2.72 |
| 200 | 0.946 | 3.10 | 2.53 |
| 300 | 1.17 | 3.83 | 2.05 |
| 400 | 1.36 | 4.46 | 1.76 |
| 450 | 1.45 | 4.75 | 1.65 |
| 500 | 1.53 | 5.02 | 1.56 |
| 512 | 1.55 | 5.08 | 1.54 |
| 600 | 1.69 | 5.53 | 1.41 |
| 700 | 1.83 | 6.01 | 1.30 |
| 800 | 1.97 | 6.45 | 1.21 |
| 824 | 2.00 | 6.56 | 1.19 |
| 894 | 2.09 | 6.85 | 1.14 |
| 960 | 2.17 | 7.12 | 1.09 |
| 1000 | 2.22 | 7.28 | 1.07 |
| 1250 | 2.51 | 8.22 | 0.94 |
| 1500 | 2.77 | 9.09 | 0.85 |
| 1700 | 2.97 | 9.74 | 0.79 |
| 1800 | 3.07 | 10.1 | 0.77 |
| 2000 | 3.25 | 10.7 | 0.72 |
| 2100 | 3.34 | 11.0 | 0.70 |
| 2200 | 3.43 | 11.2 | 0.69 |
| 2300 | 4.52 | 11.5 | 0.67 |
| 3000 | 4.09 | 13.4 | 0.57 |
| 3400 | 4.39 | 14.4 | 0.53 |
| 4000 | 4.82 | 15.8 | 0.48 |
| 5000 | 5.49 | 18.0 | 0.42 |
| 6000 | 6.11 | 20.1 | 0.38 |

* Nominal values

** Ambient temperature = 104°F (40°C); temperature of inner conductor = 212°F (100°C); VSWR = 1.0; no solar loading

Coaxial Cable



1/2" Coaxial Connectors

DESCRIPTION

- N-male, O-ring
- N-female, O-ring
- N-male, right angle, O-ring
- 7/16 DIN male, O-ring
- 7/16 DIN female, O-ring
- 7/16 DIN male, right angle, O-ring
- 7/8 EIA flange, O-ring

ELECTRICAL

- **Nominal impedance** (Ω) 50
- **Return loss @ 2.5 GHz** (dB) -35
- **3rd order intermodulation product** (dBc) -163
- **Temperature range** -40°F to +140°F (-40°C to +60°C)
- **Water immersion testing** IP67 & IP68
- **Materials**
 - External parts Passivated silver plated or electroless nickel plated brass
- **Outer contact** Passivated silver plated brass
- **Inner contact** Passivated silver plated Cu-Be
- **Dielectric** TXP / PTFE
- **O-rings** Silicone rubber

ACCESSORIES

DESCRIPTION

Tools

Cable Prep Tool
Torque Wrench, Back Nut
Torque Wrench, 7/16 DIN Coupler

Hoisting Grips

Lace-Up Hoisting Grip
Pre-Laced Hoisting Grip

Hangers

Butterfly Hangers, Kit of 10
Snap-In Hangers, Kit of 10
Snap-Stack Hangers, Kit of 10

Coax Support Blocks

Mini Coax Support Blks, Kit of 10
Large Coax Support Blks, Kit of 10

DESCRIPTION

Angle Adapters, Stainless Steel

Universal SST Angle Adaptor, Kit of 10
SST Angle Adaptor, Kit of 10

Weatherproofing

Standard Weatherproofing Kit

Boots and Cushions

4" Boot Assembly, 1 hole
4" Boot Assembly, 3 hole
Standard Port Cushion, 1 hole
Standard Port Cushion, 2 hole
Standard Port Cushion, 3 hole
4" Boot Assembly, Cushion not included
5" Boot Assembly, Cushion not included