

## Radiating Cable Antenna Systems Models from 100 MHz up to 6 GHz

M/A-COM ACW  
Preliminary - Rev. A

### Features:

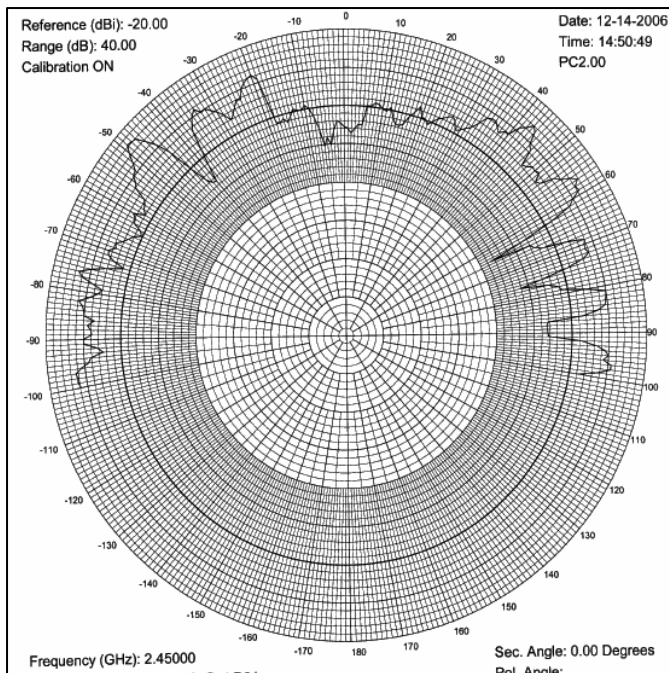
- Provides omnidirectional radiation pattern over hemisphere
- Provides uniform gain along entire length of cable
- Lengths available from approximately 3' to 200' or longer
- Flexible with tight bend radius to allow installation around obstacles
- Performance can be easily tailored to specific requirements

### Typical Characteristics:

- Frequency range 100 MHz to 6000 MHz
- VSWR 1.5:1 max. over frequency range
- Gain:
 

400 MHz	-35 dBi
1800 MHz	-30 dBi
2450 MHz	-30 dBi
5850 MHz	-25 dBi

### Typical Pattern Coverage (2450 MHz) (Free Space Data)



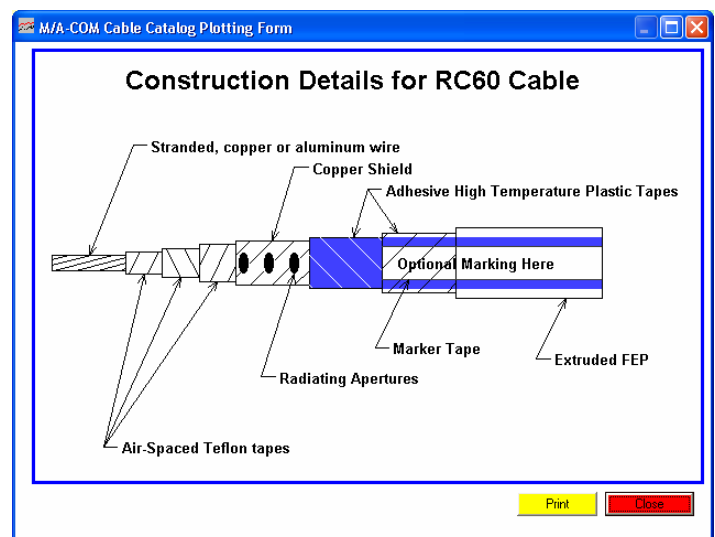
### A short sample of a 2800 Cable Antenna (Shown with Type N connectors)



The standard termination, shown above, is rated for 2 watts average. Higher power terminations are available if required

### Cable Data:

- Base cable type is RC60
- Outer Diameter: 0.55" Nominal
- Weight: 0.14 lb/ft nominal
- Recommended Inside Bend Radius: 3.0 inches
- Sealing: Can be used in moist environments



**ADVANCED:** Data Sheets contain information regarding a product M/A-COM is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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Visit [www.macom.com](http://www.macom.com) for additional data sheets and product information.

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## Ordering Information:

Part numbers consist of the series part number, the length and the connector configuration with the format

2800-nnnn-C1C2 or 2800-Mmmm-C1C2

where

nnnn is the length in whole inches  
mmm is the length in tenths of meters (i.e. M300 indicates 30.0 meters)  
C1 is the input connector code  
C2 is the terminated port connector code

Currently N plug (code 46) and TNC plug (code 87) connectors are offered

Examples:

- a) The part number for a 480 inch RC60 radiating cable assembly with N plug connectors is 2800-0480-4646
- b) The part number for a 30.5 meter RC60 radiating cable assembly with TNC plug connectors is 2800-M305-8787