

# RAD-ISM Coaxial Antenna Cables

## Data Sheet 2206B

June 2007

All of the accessories needed for installing a wireless system — antennas, adapters, cables, and surge suppression — are available from Phoenix Contact.

Please note that every connection between the radio and the antenna causes signal attenuation. The attenuation of a cable is proportional to the cable length; therefore use only as much cable as is absolutely necessary for the application.

### Technical Data for the RAD-CAB-RG58-...

|                        |                                |           |
|------------------------|--------------------------------|-----------|
| Connector Type         | N(male) at both ends           |           |
| Cable Type             | RG-58U                         |           |
| Temperature Rating     | -40°F to 167°F (-40°C to 75°C) |           |
| Outer Diameter         | 0.195 inches (11.43 mm)        |           |
| Minimum Bending Radius | 2 inches (50.8 mm)             |           |
| Weight                 | 2.5 pounds/100 feet            |           |
| Insertion Attenuation  | Approximately 13.7dB/100 feet  |           |
| Jacket Material        | PVC                            |           |
| Antenna Cable Length   | Description                    | Order No. |
| 10 feet                | RAD-CAB-RG58-10                | 2867364   |
| 20 feet                | RAD-CAB-RG58-20                | 2867212   |



### Technical Data for the RAD-CAB-RG213-...

|                        |                                |           |
|------------------------|--------------------------------|-----------|
| Connector Type         | N(male) at both ends           |           |
| Cable Type             | RG-213U                        |           |
| Temperature Rating     | -40°F to 176°F (-40°C to 80°C) |           |
| Outer Diameter         | 0.405 inches (10.29 mm)        |           |
| Minimum Bending Radius | 5 inches (127 mm)              |           |
| Weight                 | 10.4 pounds/100 feet           |           |
| Insertion Attenuation  | Approximately 7.6dB/100 feet   |           |
| Jacket Material        | Polyethylene                   |           |
| Antenna Cable Length   | Description                    | Order No. |
| 25 feet                | RAD-CAB-RG213-25               | 2867597   |
| 40 feet                | RAD-CAB-RG213-40               | 2867377   |
| 50 feet                | RAD-CAB-RG213-50               | 2867225   |

### Technical Data for the RAD-CAB-LMR240-...

|                        |                                |           |
|------------------------|--------------------------------|-----------|
| Connector Type         | N(male) at both ends           |           |
| Cable Type             | LMR-240                        |           |
| Temperature Rating     | -40°F to 185°F (-40°C to 85°C) |           |
| Outer Diameter         | 0.24 inches (0.69 mm)          |           |
| Minimum Bending Radius | 0.75 inches (19.05 mm)         |           |
| Weight                 | 3.4 pounds/100 feet            |           |
| Insertion Attenuation  | Approximately 7.6dB/100 feet   |           |
| Jacket Material        | Polyethylene                   |           |
| Antenna Cable Length   | Description                    | Order No. |
| 10 feet                | RAD-CAB-LMR240-10              | 5606124   |

**Technical Data for the RAD-CAB-LMR400-...**

|                        |                                |           |
|------------------------|--------------------------------|-----------|
| Connector Type         | N(male) at both ends           |           |
| Cable Type             | LMR-400                        |           |
| Temperature Rating     | -40°F to 185°F (-40°C to 85°C) |           |
| Outer Diameter         | 0.405 inches (10.29 mm)        |           |
| Minimum Bending Radius | 1 inch (25.4 mm)               |           |
| Weight                 | 6.8 pounds/100 feet            |           |
| Insertion Attenuation  | Approximately 3.9dB/100 feet   |           |
| Jacket Material        | Polyethylene                   |           |
| Antenna Cable Length   | Description                    | Order No. |
| 20 feet                | RAD-CAB-LMR400-20              | 5606125   |
| 60 feet                | RAD-CAB-LMR400-60              | 2867380   |
| 80 feet                | RAD-CAB-LMR400-80              | 2867393   |
| 100 feet               | RAD-CAB-LMR400-100             | 2867238   |

**Technical Data for the RAD-CAB-LMR500-...**

|                        |                                |           |
|------------------------|--------------------------------|-----------|
| Connector Type         | N(male) at both ends           |           |
| Cable Type             | LMR-500                        |           |
| Temperature Rating     | -40°F to 185°F (-40°C to 85°C) |           |
| Outer Diameter         | 0.50 inches (12.7 mm)          |           |
| Minimum Bending Radius | 1.25 inches (31.75 mm)         |           |
| Weight                 | 9.7 pounds/100 feet            |           |
| Insertion Attenuation  | Approximately 3.13dB/100 feet  |           |
| Jacket Material        | Polyethylene                   |           |
| Antenna Cable Length   | Description                    | Order No. |
| 25 feet                | RAD-CAB-LMR500-25              | 5606126   |

**Technical Data for the RAD-CAB-LMR600-...**

|                        |                                |           |
|------------------------|--------------------------------|-----------|
| Connector Type         | N(male) at both ends           |           |
| Cable Type             | LMR-600                        |           |
| Temperature Rating     | -40°F to 185°F (-40°C to 85°C) |           |
| Outer Diameter         | 0.59 inches (14.99 mm)         |           |
| Minimum Bending Radius | 1.5 inches (38.1 mm)           |           |
| Weight                 | 13.1 pounds/100 feet           |           |
| Insertion Attenuation  | Approximately 2.5dB/100 feet   |           |
| Jacket Material        | Polyethylene                   |           |
| Antenna Cable Length   | Description                    | Order No. |
| 125 feet               | RAD-CAB-LMR600-125             | 2885171   |
| 150 feet               | RAD-CAB-LMR600-150             | 2885184   |

**Technical Data for the RAD-CAB-LMR900-...**

|                        |                                |           |
|------------------------|--------------------------------|-----------|
| Connector Type         | N(male) at both ends           |           |
| Cable Type             | LMR-900                        |           |
| Temperature Rating     | -40°F to 185°F (-40°C to 85°C) |           |
| Outer Diameter         | 0.87 inches (22.1 mm)          |           |
| Minimum Bending Radius | 3 inches (76.2 mm)             |           |
| Weight                 | 26.6 pounds/100 feet           |           |
| Insertion Attenuation  | Approximately 1.7dB/100 feet   |           |
| Jacket Material        | Polyethylene                   |           |
| Antenna Cable Length   | Description                    | Order No. |
| 200 feet               | RAD-CAB-LMR900-200             | 2885197   |

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