

## Features

- Copper-shielded coaxial cable with an air-core that provides low VSWR and extraordinary PIM performance
- Plenum-rated CMP jacket for in-building use
- Conforms to NFPA-262, UL-444, standards
- Suitable for use in Public Safety DAS installations
- UV resistance of UL 1581 Standard



2011/65/EU

## Description

The 50 Ohm 1/2" Copper-shielded coaxial cable is designed for use in Public Safety in-building DAS systems. It features an air-core non-pressurized dielectric design and a plenum-rated jacket. The cable conforms to NFPA-262, UL-444 safety standards. With low VSWR and DC resistance, it provides reliable performance in critical RF applications.

*Standard conditions for published attenuation: VSWR 1.0, ambient temperature 20°C (68°F). Average power ratings are based on ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F), and no solar loading.*

## Ordering Information

| Model      | Description                                                            | Stock No. |
|------------|------------------------------------------------------------------------|-----------|
| COAX-PL-FT | 1/2" Coaxial Cable - Plenum Rated / Low Loss / Air Dielectric / 50 Ohm | 3996168   |

## Technical Specifications

|                           |                                                                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical Dimensions       | <ul style="list-style-type: none"> <li>• Center Diameter, in (mm) 0.188 (4.78)</li> <li>• Diameter Over Outer Conductor, in (mm) 0.550 (13.97)</li> <li>• Maximum Diameter Over Jacket, in (mm) 0.63 (16.00)</li> </ul> |
| Cable Materials           | <ul style="list-style-type: none"> <li>• Center Conductor Copper-Clad Aluminum</li> <li>• Outer Conductor Corrugated Aluminum</li> </ul>                                                                                |
| Jacket Color              | Off White                                                                                                                                                                                                               |
| Impedance, Ohms           | 50±2                                                                                                                                                                                                                    |
| Nominal capacitance, pF/m | 35 KW                                                                                                                                                                                                                   |
| DC Resistance             | <ul style="list-style-type: none"> <li>• Center 0.46 (1.51) Ohms/1,000 ft (1,000m)</li> <li>• Outer 0.51 (1.67) Ohms/1,000 ft (1,000 m)</li> </ul>                                                                      |
| DC Breakdown              | 4 kV                                                                                                                                                                                                                    |
| Capacitance               | 75.459 pF/m                                                                                                                                                                                                             |
| Inductance                | 0.057 (0.187) mH/ft (m)                                                                                                                                                                                                 |
| Jacket Spark              | 5 kV RMS                                                                                                                                                                                                                |
| VSWR min                  | 1.25 (19.0) (dB)                                                                                                                                                                                                        |
| VSWR typical              | 1.13 (24.3) 700-960/1700-2200 MHz (dB)                                                                                                                                                                                  |
| Impedance                 | 50 ± 2 Ohms                                                                                                                                                                                                             |
| Velocity of Propagation   | 88%                                                                                                                                                                                                                     |
| Minimum Bend Radius       | <ul style="list-style-type: none"> <li>• Single 2 (63.5) in (mm)</li> <li>• Multiple 5 (127) in (mm)</li> </ul>                                                                                                         |
| Cable Weight              | 0.13 (0.20) lb/ft (kg/m)                                                                                                                                                                                                |
| Bending Moment            | 6.779 N-m                                                                                                                                                                                                               |
| Tensile Strength          | 790 N                                                                                                                                                                                                                   |
| Flat Plate Crush          | 1.429 kg/mm                                                                                                                                                                                                             |
| Number of Bends           | 15 minimum                                                                                                                                                                                                              |
| Recommended Temperatures  | <ul style="list-style-type: none"> <li>• Install Temp. '+5° to 194°F (-15° to 90°)</li> <li>• Storage Temp. '+5° to 194°F (-15° to 90°)</li> <li>• Operating Temp. '+5° to 194°F (-15° to 90°)</li> </ul>               |