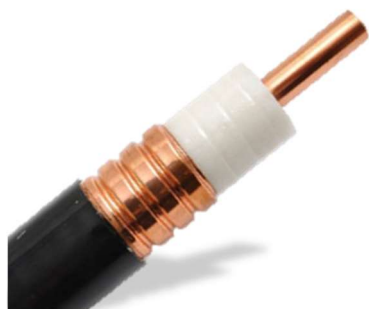


# Coaxial Cable 7/8"

50 Ohm Coaxial Feeder Cable, 0 – 3800 MHz

**MIC360<sup>o</sup>**  
IN-BUILDING COMPONENTS by MIC



- Foam Dielectric Coaxial Cable
- Size: 7/8"
- Impedance: 50 ohm
- Low PIM, low VSWR
- Flame retardant
- CPR rating: B2ca-s1 a, d2, a1

| Electrical Specification      |               |                            |
|-------------------------------|---------------|----------------------------|
| Product number                |               | 422 001 001                |
| Impedance                     | $\Omega$      | 50 $\pm$ 2                 |
| Capacitance                   | pF/m          | 75                         |
| Inductance                    | $\mu$ H/m     | 0.187                      |
| Propagation velocity          | %             | 88                         |
| DC breakdown voltage          | kV            | 4                          |
| Max operating frequency       | GHz           | 5.0                        |
| Cut-off frequency             | GHz           | 8.8                        |
| Insulation resistance         | M $\Omega$ km | >5000                      |
| Peak power rating             | kW            | 91                         |
| PIM                           | dBc@(2x20W)   | $\leq$ -160                |
| Environmental Specification   |               |                            |
| 2011/65EU (RoHS)              |               | Compliant                  |
| EN50575 CPR Class             |               | B2ca-s1a, d2, a1           |
| Storage temperature           | $^{\circ}$ C  | -30 to +80                 |
| Operating temperature         | $^{\circ}$ C  | -30 to +80                 |
| Installation temperature      | $^{\circ}$ C  | -30 to +60                 |
| Mechanical Specification      |               |                            |
| Outer conductor               |               | Corrugated Copper          |
| Inner conductor               |               | Copper Tube                |
| Jacket material               |               | PE (Black) Flame retardant |
| Dielectric material           |               | Foam PE                    |
| Diameter over jacket          | mm            | 27.3 $\pm$ 0.2             |
| Diameter over outer conductor | mm            | 24.9 $\pm$ 0.2             |
| Diameter over dielectric      | mm            | 22.5 $\pm$ 0.4             |

|                                      |       |           |
|--------------------------------------|-------|-----------|
| <b>Diameter over inner conductor</b> | mm    | 8.9 ± 0.1 |
| <b>Min. bending radius, single</b>   | mm    | 120       |
| <b>Min. bending radius, multiple</b> | mm    | 250       |
| <b>Max. tensile force</b>            | N     | 1470      |
| <b>Max. Clamp spacing</b>            | m     | 1         |
| <b>Min. connector pull-off force</b> | N     | 300       |
| <b>Crush resistance</b>              | kg/mm | 1.4       |
| <b>Bending moment</b>                | Nm    | 16.3      |

### Transmission properties

| Frequency (MHz) | Attenuation (dB/100m) | Average Power (kW) |
|-----------------|-----------------------|--------------------|
| 10              | 0.366                 | 24.80              |
| 108             | 1.24                  | 7.31               |
| 174             | 1.60                  | 5.68               |
| 512             | 2.81                  | 3.22               |
| 824             | 3.69                  | 2.44               |
| 894             | 3.87                  | 2.33               |
| 925             | 3.97                  | 2.26               |
| 960             | 4.02                  | 2.25               |
| 1880            | 5.89                  | 1.58               |
| 2200            | 6.46                  | 1.40               |
| 2500            | 6.97                  | 1.29               |
| 2700            | 7.29                  | 1.24               |
| 3300            | 8.22                  | 1.09               |
| 3800            | 8.95                  | 1.02               |

Values at 20°C ambient temperature

### VSWR

| Frequency (MHz) | VSWR |
|-----------------|------|
| 380 – 470       | 1.13 |
| 694 – 960       | 1.13 |
| 1429 – 1501     | 1.13 |
| 1710 – 2170     | 1.13 |
| 2400 – 2690     | 1.13 |
| 3300 – 3800     | 1.15 |
| DC - 3800       | 1.25 |

