



# Caledonian

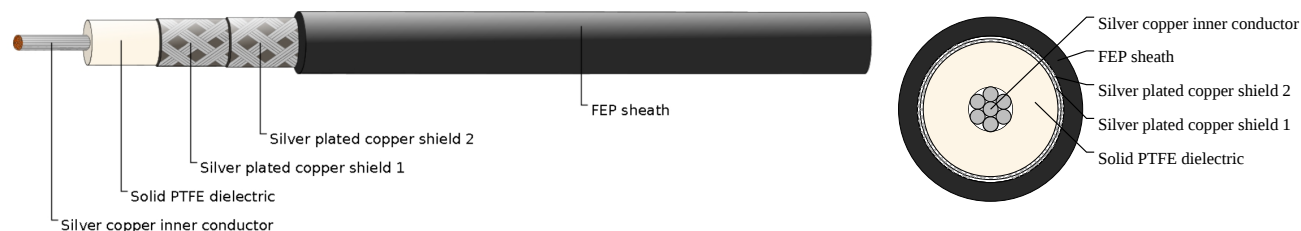
## Coaxial Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

### M17/RG Coaxial-Cable MIL-C-17F 50Ohm

#### M17/127-RG393 (RG 393/U)



### Construction

|                           |                      |                         |
|---------------------------|----------------------|-------------------------|
| Inner conductor           | Silver plated copper | 7 x 0.79 mm             |
| Dielectric                | Solid PTFE           | $\Phi 7.25 \pm 0.18$ mm |
| Outer conductor(shield 1) | Silver plated copper | 144 x 0.16 mm           |
| Shield coverage           | /                    | 95%                     |
| Outer conductor(shield 2) | Silver plated copper | 144 x 0.16 mm           |
| Shield coverage           | /                    | 95%                     |
| Outer sheath              | FEP                  | $\Phi 9.9$ mm           |

### Electrical Mechanical Characteristics

|                             |                  |
|-----------------------------|------------------|
| Impedance                   | 50 $\pm$ 3 Ohm   |
| Nominal capacitance         | 94 pF/m          |
| Velocity of propagation     | 70%              |
| Insulation resistance       | >2000 Mohm.Km    |
| Inner conductor resistance  | 4.99 Ohm/Km      |
| Outer conductor resistance  | 4 Ohm/Km         |
| Operating temperature range | -55 °C - +200 °C |
| Test/Operatig Voltage(max)  | 5KV/2.5KV        |
| Cable weight (approx.)      | 240 Kg/Km        |
| Screening effectiveness     | 80dB             |

### Attenuation

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------------|------------------------|-------------------------|
| 100             | 6.6                    | 2.01                    |
| 200             | 9.7                    | 2.96                    |
| 400             | 22.1                   | 6.74                    |
| 900             | 22.1                   | 6.74                    |



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|      |      |       |
|------|------|-------|
| 1000 | 24   | 7.32  |
| 2000 | 34.4 | 10.49 |
| 3000 | 47   | 14.33 |
| 5000 | 65   | 19.82 |

## Return Loss

|             |       |
|-------------|-------|
| 30-300 MHz  | >30dB |
| 300-600 MHz | >28dB |
| 600-900 MHz | >23dB |