

## DATASHEET

SKU: 056071

### Benelec 100m RG214 50Ω TPC Spool



## CONSTRUCTION

|                         | Material                        | Diameter          |
|-------------------------|---------------------------------|-------------------|
| Centre Conductor        | Silver-Coated Copper Wire Braid | 7× Φ 0.75 mm      |
| Insulation (Dielectric) | Solid Polyethylene              | Φ 7.24 ± 0.20 mm  |
| Shield 1                | Tinned Copper Wire Braid        |                   |
| Shield 2                | Tinned Copper Wire Braid        |                   |
| Jacket (Sheath)         | Non-Contaminating PVC           | Φ 10.80 ± 0.30 mm |

## MECHANICAL CHARACTERISTICS

|                            |                  |
|----------------------------|------------------|
| Net Cable Weight           | 19.5 kg/100m     |
| Cable Weight (incl. spool) | 21 kg/100m       |
| Minimum Bending Radius     | 150 mm           |
| Maximum Pulling Tension    | 100 kg           |
| Operating Temperature      | -40 °C to +80 °C |

## ATTENUATION AND AVERAGE POWER

| Frequency (MHz) | dB / 100 M @ 20 deg | Max Power (Watts) @ 40 deg |
|-----------------|---------------------|----------------------------|
| 30              | 3                   | 1300                       |
| 100             | 6                   | 712                        |
| 400             | 13                  | 356                        |
| 1000            | 21                  | 225                        |
| 2500            | 35                  | 142                        |

## ELECTRICAL CHARACTERISTICS

|                       |                          |
|-----------------------|--------------------------|
| Capacitance           | < 101 pF/M               |
| Impedance             | 50 Ω Nom. (48 – 50)      |
| Propagation Velocity  | 66 %                     |
| Conductor DCR         | 5.57 Ω/km                |
| Shield DCR            | 2.29 Ω/km                |
| Nom Inductance        | 0.077 uH/ft (0.253 uH/m) |
| Peak Power            | 1300 W                   |
| Nominal Delay         | 5.05 ns/m                |
| Max Operating Voltage | 3700 V RMS               |

## CABLE MARKINGS

**056071 Benelec 50Ω RG214/U to Mil-C-17-D Batch No XXXXX Mtrs XXXXX**

Batch no. is the purchase order number for this shipment. Marking on the cable is every meter and the meter count increases by one very time the marking is printed.

## PACKAGING

| Inventory Code | Jacket Colour | Spool Size | Spool Type | Spool Dimensions   | Weight   |
|----------------|---------------|------------|------------|--------------------|----------|
| 056071         | Black         | 100 m      | Wooden     | 300 x 300 x 300 mm | 20.6 kgs |

Website: [benelec.au](http://benelec.au)