

DATASHEET

Benelec 100m RG223/U 50 Ohm Coaxial Cable Spool



CONSTRUCTION

| | Material | Coverage | OD |
|-------------------------|---------------------------|----------|----------------|
| Centre Conductor | Silver-Coated Copper Wire | N/A | 0.90 ± 0.02mm |
| Insulation (Dielectric) | Solid PE | N/A | 2.95 ± 0.20 mm |
| Shield 1 | Silver Copper Wire Braid | ≥ 90 % | N/A |
| Shield 2 | Silver Copper Wire Braid | ≥ 90 % | N/A |
| Jacket (Sheath) | Non-contaminating PVC | N/A | 5.38 ± 0.20 mm |

MECHANICAL CHARACTERISTICS

| | |
|----------------------------|----------|
| Cable Weight (incl. spool) | 6.14 kgs |
| Cable Length | 305 m |
| Min Bending Radius | 54 mm |

ELECTRICAL CHARACTERISTICS

| | |
|-------------------------|-----------|
| Capacitance | 101 pF/M |
| Impedance | 50 ± 2 Ω |
| Propagation Velocity | 66 % |
| Max Operating Voltage | 1.90 kV |
| Max Operating Frequency | 11.00 GHz |

CABLE MARKINGS

056082 Benelec 50Ω RG223/U SPC 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.

ATTENUATION AND AVERAGE POWER

| Frequency (MHz) | Typical Attenuation @20°C, dB/100m | Typical Attenuation @20°C, dB/100ft |
|-----------------|------------------------------------|-------------------------------------|
| 10 | 3.94 | 1.20 |
| 50 | 9.19 | 2.80 |
| 100 | 13.12 | 4.00 |
| 400 | 26.90 | 8.20 |
| 1000 | 42.64 | 13.00 |
| 1500 | 55.76 | 17.00 |
| 2000 | 65.60 | 20.00 |
| 2500 | 72.16 | 22.00 |
| 3000 | 82.00 | 25.00 |

*Attenuation values may be with a tolerance of 5%

PACKAGING

| Inventory Code | Jacket Colour | Spool Size | Spool Dimensions |
|----------------|---------------|------------|--------------------------|
| 056082 | Black | 305 mm | 200 mm x 200 mm x 240 mm |

STANDARDS

2011 / 65 / EU Compliant

Website: benelec.au