



**RADIO FREQUENCY  
INDUSTRIES (PTY.) LTD.**

*"Simply The Best"*

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RFi CABLE RG58U MIL-C-17F 50 OHM

## RG58 (MIL-C17-F) COAXIAL CABLE

### RFi ORDER CODE : RG58

| CABLE SPECIFICATIONS                         |                                               | ATTENUATION                        |                |                          |
|----------------------------------------------|-----------------------------------------------|------------------------------------|----------------|--------------------------|
| RF SPECIFICATIONS                            |                                               |                                    |                |                          |
| Max. Frequency                               | = 1GHz                                        |                                    |                |                          |
| Velocity Factor                              | = 66%                                         |                                    |                |                          |
| Maximum Operating Voltage (RMS)              | = 1900 Volts                                  |                                    |                |                          |
| Peak Power                                   | = 1.5kV RMS (At Sea Level)                    |                                    |                |                          |
| Impedance                                    | = 50Ω (+/- 2)                                 |                                    |                |                          |
| INNER CONDUCTOR SPECIFICATIONS               |                                               |                                    |                |                          |
| Inner Conductor Makeup                       | = 19 Tin Plated Copper Strands X 0.18mm Each  |                                    |                |                          |
| Inner Conductor Overall Diameter             | = 0.94mm Overall Diameter                     |                                    |                |                          |
| Inner Conductor DC-Resistance (Ω/km)         | = 39Ω                                         |                                    |                |                          |
| OUTER CONDUCTOR SPECIFICATIONS               |                                               |                                    |                |                          |
| Outer Conductor (Braid) Makeup               | = 14 Bundels X 8 Copper Strands = 112 Strands |                                    |                |                          |
| Outer Conductor (Braid) Makeup               | = 112 Tin Plated Copper Strands X 0.12mm Each |                                    |                |                          |
| Outer Conductor (Braid) Diameter             | = 3.55mm                                      |                                    |                |                          |
| Outer Conductor (Braid) Coverage             | = 96%                                         |                                    |                |                          |
| Outer Conductor (Braid) DC-Resistance (Ω/km) | = 15Ω                                         |                                    |                |                          |
| INSULATOR SPECIFICATION                      |                                               |                                    |                |                          |
| Insulator Dielectric Specification           | = White Solid Polyethylene X 2.9mm            |                                    |                |                          |
| OUTER JACKET SPECIFICATIONS                  |                                               |                                    |                |                          |
| Outer Jacket (Sleeving) Diameter             | = 0.92 Wall X 4.95mm Outer Diameter           |                                    |                |                          |
| Outer Jacket (Sleeving) Specification        | = Black Polyvinyl Chloride (PVC)              |                                    |                |                          |
| Outer Jacket (Sleeving) UV Specification     | = UV Resistant                                |                                    |                |                          |
| Outer Jacket (Sleeving) Marking              | = RFi Cable RG58C/U MIL-C-17F 50 Ω            |                                    |                |                          |
| TECHNICAL SPECIFICATIONS                     |                                               |                                    |                |                          |
| Capacitance                                  | = 101.05pF/m                                  |                                    |                |                          |
| Inductance                                   | = 0.253 uH/m                                  |                                    |                |                          |
| MECHANICAL SPECIFICATIONS                    |                                               |                                    |                |                          |
| Operating Temperature                        | = -40 To +75 Centigrade                       |                                    |                |                          |
| Minimum Bend Radius Installed                | = 12.7mm                                      |                                    |                |                          |
| Minimum Bend Radius Repeated                 | = 30mm                                        |                                    |                |                          |
| Tensile Strength                             | = 10.5 N/mm <sup>2</sup>                      |                                    |                |                          |
| Cable Weight                                 | = 0.37g/m (3.7kg/100m)                        |                                    |                |                          |
|                                              |                                               | <b>Freq.</b>                       | <b>dB/100m</b> | <b>Avr. Power<br/>kW</b> |
|                                              |                                               | 0.5MHz                             | 0.850          | 0.855                    |
|                                              |                                               | 1MHz                               | 1.080          | 0.725                    |
|                                              |                                               | 1.5MHz.                            | 1.350          | 0.680                    |
|                                              |                                               | 10MHz                              | 4.700          | 0.520                    |
|                                              |                                               | 30MHz                              | 7.600          | 0.480                    |
|                                              |                                               | 50MHz                              | 10.900         | 0.470                    |
|                                              |                                               | 100MHz                             | 15.600         | 0.332                    |
|                                              |                                               | 200MHz                             | 23.000         | 0.235                    |
|                                              |                                               | 400MHz                             | 34.000         | 0.166                    |
|                                              |                                               | 600MHz                             | 42.800         | 0.136                    |
|                                              |                                               | 800MHz                             | 50.000         | 0.117                    |
|                                              |                                               | 900MHz                             | 57.000         | 0.111                    |
|                                              |                                               | 1000MHz                            | 61.000         | 0.105                    |
|                                              |                                               | Attenuation @ 20 Degree Centigrade |                |                          |
|                                              |                                               | Av. Power @ 40 Degree Centigrade   |                |                          |

Manufacturers of : Two-Way Radio Antennas, Duplexers, Filters, Combiners, Splitters, Lightning protectors & other RF Products.  
Sales and Distribution of: Two-Way Radios, Repeater Systems, Power Meters, Microphones, Power Supplies, Cables & Connectors.