



## RG179 B/U

|                                       |   |
|---------------------------------------|---|
| <b>BATT Part No:</b>                  | 49125   |
| <b>Applications:</b>                  | Whole field of commercial electronics and radio frequency engineering                 |
| <b>Conductor:</b>                     | Stranded copper clad steel wires, silver coated 7 x 0.102<br>Diameter $0.31 \pm 0.01$ |
| <b>Insulation:</b>                    | PTFE<br>Diameter $1.60 \pm 0.05\text{mm}$   |
| <b>Copper braid:</b>                  | Silver coated 93% optical coverage  |
| <b>Sheath:</b>                        | FEP diameter $2.54 \pm 0.13\text{mm}$   |
| <b>Electrical properties at 20°C:</b> |   |
| <b>DC Resistance:</b>                 | Inner conductor $\leq 800 \Omega/\text{km}$   |
| <b>Characteristic impedance:</b>      | $75 \Omega \pm 5 \Omega$  |
| <b>Mutual capacitance:</b>            | 64 pF/m   |
| <b>Velocity ratio:</b>                | 70%   |
| <b>Operating voltage RF:</b>          | 1kV Peak  |
| <b>Test voltage:</b>                  | Inner / outer conductor 2kV rms   |
| <b>Outer diameter:</b>                | 2.54mm  |
| <b>Approx Weight:</b>                 | 18 kg/km  |
| <b>Copper content:</b>                | 7.8   |
| <b>Tensile force:</b>                 | 35 N  |
| <b>Operating temperature:</b>         | -70°C up to +200°C  |
| <b>Minimum bending radius:</b>        | Without load – 5 x outer diameter<br>With load – 10 x outer diameter                  |
| <b>Standards:</b>                     | MIL-C-17F, MIL-C-17G<br>Flame resistance to IEC 60332-1                               |



| Frequency (MHZ) | Attenuation (dB/100m) | Max power rating (watts) ambient temperature 40°C |
|-----------------|-----------------------|---|
|                 | Nominal               | Maximum   |
| 100             | 33                    | 480   |
| 200             | 41                    | 420   |
| 400             | 52                    | 320   |
| 1000            | 79                    | 190   |