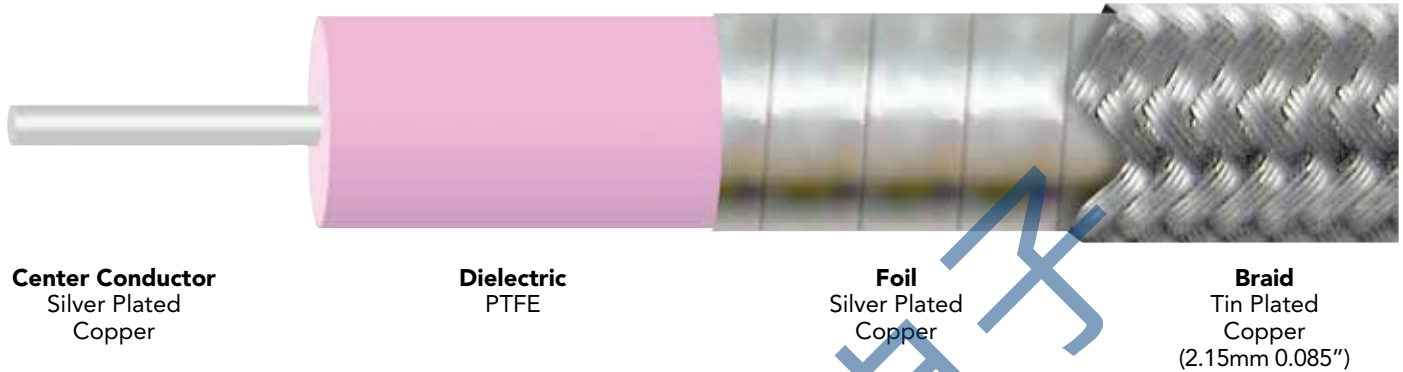




## RF085 Series Operating Up to 62 GHz



| RF085                                    |                      |
|------------------------------------------|----------------------|
| <b>Electrical Characteristics</b>        |                      |
| Impedance                                | 50 +/- 2Ω            |
| Cut Off Frequency (cable only, max)      | 62 GHz               |
| Capacitance                              | 29 pF/ft.            |
| Velocity of Propagation                  | 71%                  |
| Time Delay                               | 1.40 ns/ft.          |
| Shielding Effectiveness up to 18GHz      | >90 dB               |
| Power Handling                           | See Chart            |
| <b>Mechanical Characteristics:</b>       |                      |
| Weight                                   | .17 oz/ft (16g/m)    |
| Minimum Bend Radius inches (mm)          | .125" (3.175mm)      |
| <b>Environmental Characteristics:</b>    |                      |
| Operating Temperature Range <sup>1</sup> | -65°C to +165°C      |
| RoHS (2002/95/EC)                        | Available on request |

VSWR for assemblies with two straight connectors 1.35:1 to 18 GHz

**FEP Jacket available – Cable part number TPRFEP085**



## RF085 Series (Continued)

### Insertion Loss

| RF085 |        |      |                                |
|-------|--------|------|--------------------------------|
| GHz   | dB/ft. | dB/m | Power(W) @ 20°C<br>@ Sea Level |
| 0.04  | 0.12   | 0.39 | 270                            |
| 1     | 0.19   | 0.63 | 220                            |
| 2     | 0.28   | 0.92 | 200                            |
| 4     | 0.41   | 1.34 | 120                            |
| 6     | 0.51   | 1.68 | 85                             |
| 8     | 0.61   | 1.98 | 75                             |
| 10    | 0.69   | 2.26 | 70                             |
| 12    | 0.77   | 2.51 | 65                             |
| 14    | 0.84   | 2.75 | 60                             |
| 16    | 0.91   | 2.98 | 55                             |
| 18    | 0.98   | 3.20 | 50                             |
| 20    | 1.04   | 3.42 | 45                             |
| 22    | 1.10   | 3.62 | 43                             |
| 24    | 1.17   | 3.82 | 42                             |
| 26    | 1.23   | 4.02 | 40                             |
| 28    | 1.28   | 4.21 | 39                             |
| 30    | 1.34   | 4.40 | 39                             |
| 32    | 1.40   | 4.58 | 37                             |
| 34    | 1.45   | 4.76 | 36                             |
| 36    | 1.51   | 4.94 | 35                             |
| 38    | 1.56   | 5.11 | 32                             |
| 40    | 1.61   | 5.28 | 30                             |
| 42    | 1.66   | 5.45 | 29                             |
| 44    | 1.71   | 5.62 | 28                             |
| 46    | 1.76   | 5.79 | 27                             |
| 48    | 1.81   | 5.95 | 26                             |
| 50    | 1.86   | 6.11 | 25                             |
| 52    | 1.91   | 6.27 | 25                             |
| 54    | 1.96   | 6.43 | 25                             |
| 56    | 2.01   | 6.59 | 23                             |
| 58    | 2.06   | 6.74 | 23                             |
| 60    | 2.10   | 6.90 | 22                             |
| 62    | 2.15   | 7.05 | 22                             |

