



RF085 Series Operating Up to 62 GHz



Center Conductor
Silver Plated
Copper

Dielectric
PTFE

Foil
Silver Plated
Copper

Braid
Tin Plated
Copper
(2.15mm 0.085")

RF085

Electrical Characteristics

| | |
|-------------------------------------|-------------|
| 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 |

Mechanical Characteristics:

| | |
|---------------------------------|-------------------|
| Weight | .17 oz/ft (16g/m) |
| Minimum Bend Radius inches (mm) | .125" (3.175mm) |

Environmental Characteristics:

| | |
|--|----------------------|
| Operating Temperature Range ¹ | -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

| GHz | RF085 | | Power(W) @ 20°C @ Sea Level |
|------|--------|------|--------------------------------|
| | dB/ft. | dB/m | |
| 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 |

