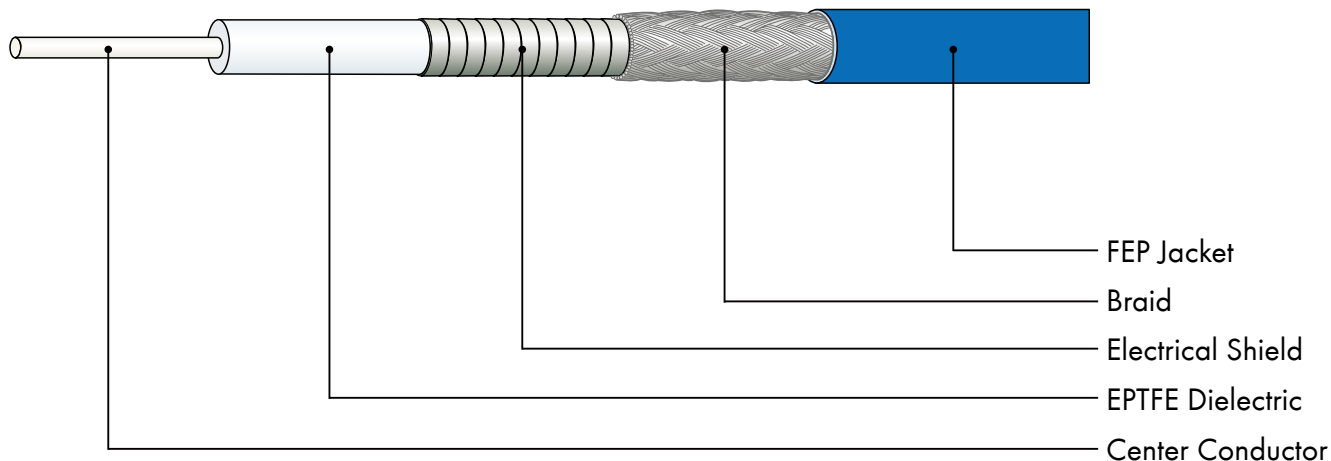




**R-Test Multi Purpose Ultra Low Loss Coaxial Cable**  
**DC-70 GHz Attenuation: 6.66dB/m @ 70GHz**

**MPUL284A**

**Cable Construction**



**Material And Diameter**

| Connector parts   | Material                                 | Diameter           |
|-------------------|------------------------------------------|--------------------|
| Center Conductor  | Silver Plated Copper (SPC)               |                    |
| Dielectric        | EPTFE (Expanded Polytetrafluoroethylene) |                    |
| Electrical Shield | Copper, Silver plated                    |                    |
| Braid             | Copper, Silver plated                    |                    |
| Jacket            | FEP (Fluorinated ethylene propylene)     | 2.6 mm (.102 inch) |

**Electrical Data**

|                                |                              |
|--------------------------------|------------------------------|
| Impedance                      | 50 $\pm$ 2 $\Omega$          |
| Frequency                      | DC to 70 GHz                 |
| Capacitance                    | 87.9 pF/m                    |
| Velocity of signal propagation | 76 %                         |
| Signal delay                   | 4.40 ns/m                    |
| Screening Effectiveness        | $\geq$ 100 dB (up to 18 GHz) |
| Power Handling                 | See chart                    |

**Mechanical Data**

|                     |          |
|---------------------|----------|
| Weight              | 17.9 g/m |
| Min. bending radius | 6.35 mm  |

**Environmental Data**

|                      |                 |
|----------------------|-----------------|
| Temperature range    | -65°C to +165°C |
| RoHS 3 (EU 2015/863) | compliant       |

## R-Test Multi Purpose Ultra Low Loss Coaxial Cable DC-70 GHz Attenuation: 6.66dB/m @ 70GHz

### MPUL284A

#### Typical Attenuation

| Frequency (GHz) | Typical Attenuation (dB/m)<br>@ 20 °C sea level | Typical Attenuation (dB/ft)<br>@ 20 °C sea level | Max. CW power (Watt)<br>@ 20 °C sea level |
|-----------------|-------------------------------------------------|--------------------------------------------------|-------------------------------------------|
| 0.5             | 0.46                                            | 0.14                                             | 410                                       |
| 1               | 0.66                                            | 0.20                                             | 220                                       |
| 2               | 0.94                                            | 0.29                                             | 200                                       |
| 4               | 1.35                                            | 0.41                                             | 120                                       |
| 6               | 1.67                                            | 0.51                                             | 85                                        |
| 8               | 1.95                                            | 0.60                                             | 75                                        |
| 10              | 2.20                                            | 0.67                                             | 70                                        |
| 12              | 2.43                                            | 0.74                                             | 65                                        |
| 14              | 2.65                                            | 0.81                                             | 60                                        |
| 16              | 2.85                                            | 0.87                                             | 55                                        |
| 18              | 3.04                                            | 0.93                                             | 50                                        |
| 20              | 3.23                                            | 0.98                                             | 45                                        |
| 22              | 3.40                                            | 1.04                                             | 43                                        |
| 24              | 3.57                                            | 1.09                                             | 42                                        |
| 26              | 3.74                                            | 1.14                                             | 40                                        |
| 28              | 3.90                                            | 1.19                                             | 39                                        |
| 30              | 4.06                                            | 1.24                                             | 38                                        |
| 32              | 4.21                                            | 1.28                                             | 37                                        |
| 34              | 4.36                                            | 1.33                                             | 36                                        |
| 36              | 4.50                                            | 1.37                                             | 35                                        |
| 38              | 4.65                                            | 1.42                                             | 32                                        |
| 40              | 4.79                                            | 1.46                                             | 30                                        |
| 42              | 4.92                                            | 1.50                                             | 29                                        |
| 44              | 5.06                                            | 1.54                                             | 28                                        |
| 46              | 5.19                                            | 1.58                                             | 27                                        |
| 48              | 5.32                                            | 1.62                                             | 26                                        |
| 50              | 5.45                                            | 1.66                                             | 25                                        |
| 52              | 5.58                                            | 1.70                                             | 25                                        |
| 54              | 5.71                                            | 1.74                                             | 25                                        |
| 56              | 5.83                                            | 1.78                                             | 23                                        |
| 58              | 5.95                                            | 1.81                                             | 23                                        |
| 60              | 6.07                                            | 1.85                                             | 22                                        |
| 62              | 6.19                                            | 1.89                                             | 22                                        |
| 64              | 6.31                                            | 1.92                                             | 22                                        |
| 65              | 6.43                                            | 1.96                                             | 21                                        |
| 68              | 6.54                                            | 1.99                                             | 20                                        |
| 70              | 6.66                                            | 2.03                                             | 19                                        |