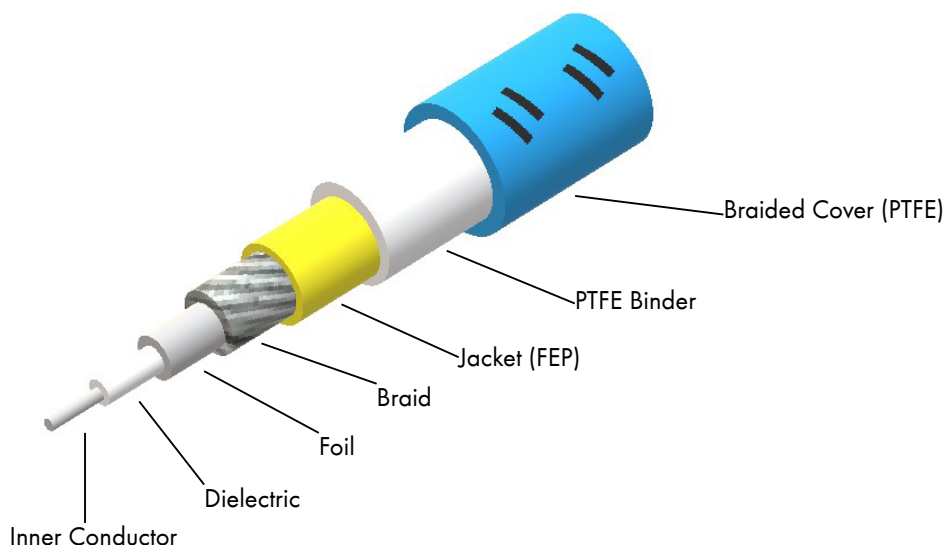




R-Test EternalPhase Coaxial Cable

EP0574



**Material And Diameter**

| Connector parts | Material                                 | Diameter             |
|-----------------|------------------------------------------|----------------------|
| Inner conductor | Solid, Silver Plated Copper (SPC)        | 5.74 mm (0.226 inch) |
| Dielectric      | EPTFE (Expanded Polytetrafluoroethylene) |                      |
| Foil            | Copper, Silver plated                    |                      |
| Braid           | Copper, Silver plated                    |                      |
| Jacket          | FEP (Fluorinated ethylene propylene)     |                      |
| PTFE binder     | -                                        |                      |
| Braided cover   | PTFE (Polytetrafluoroethylene)           |                      |

**Electrical Data**

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| Impedance                                | 50 $\Omega$                              |
| Frequency                                | DC to 32 GHz                             |
| Capacitance                              | 78.74 pF/m                               |
| Velocity of signal propagation (nominal) | 84 %                                     |
| Signal delay                             | 3.94 ns/m                                |
| Insulation resistance                    | $\geq 1 \times 10^8$ M $\Omega$ /m       |
| Screening effectiveness                  | $\geq 100$ dB (up to 18 GHz)             |
| Operating Voltage Max. ( Vrms @ 60 Hz )  | $\leq 2.4$ kVrms (@ sea level)           |
| Power Handling                           | See chart                                |
| Phase Stability vs Bending               | $\pm 3.5^\circ$ typ/ $\pm 7.0^\circ$ max |
| Amplitude Stability vs Bending           | $\pm 0.02$ dB typ/ $\pm 0.04$ dB max     |
| Phase Stability vs Temp                  | $< 4^\circ$ /m/GHz ( -55 ~ +125°C )      |

**Mechanical Data**

|                               |          |
|-------------------------------|----------|
| Weight                        | 67.9 g/m |
| Min. bending radius (static)  | 19.05 mm |
| Min. bending radius (dynamic) | 38.1 mm  |

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**Environmental Data**

Temperature range -65°C to +200°C  
RoHS (2011/65/EU) compliant

**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 |
|-----------------|------------------------------------------------|-------------------------------------------------|------------------------------------------|
| 1               | 0.27                                           | 0.08                                            | 800                                      |
| 2               | 0.38                                           | 0.12                                            | 550                                      |
| 4               | 0.53                                           | 0.16                                            | 400                                      |
| 6               | 0.66                                           | 0.20                                            | 320                                      |
| 8               | 0.77                                           | 0.23                                            | 290                                      |
| 10              | 0.87                                           | 0.26                                            | 250                                      |
| 12              | 0.95                                           | 0.29                                            | 220                                      |
| 14              | 1.03                                           | 0.32                                            | 210                                      |
| 16              | 1.11                                           | 0.34                                            | 200                                      |
| 18              | 1.18                                           | 0.36                                            | 195                                      |
| 20              | 1.25                                           | 0.38                                            | 190                                      |
| 22              | 1.32                                           | 0.40                                            | 185                                      |
| 24              | 1.38                                           | 0.42                                            | 180                                      |
| 26              | 1.45                                           | 0.44                                            | 175                                      |
| 28              | 1.51                                           | 0.46                                            | 170                                      |
| 30              | 1.54                                           | 0.47                                            | 160                                      |
| 32              | 1.62                                           | 0.49                                            | 150                                      |