



## 480 Series Operating Up to 11 GHz



**Center Conductor**  
Silver Plated  
Copper  
(Stranded only)

**Dielectric**  
EPTFE

**Foil**  
Silver Plated  
Copper

**Braid**  
Silver Plated  
Copper

**Outer Jacket**  
FEP  
(12mm 0.480")

### 4806

#### Electrical Characteristics

|                                     |             |
|-------------------------------------|-------------|
| Impedance                           | 50 +/- 2Ω   |
| Cut Off Frequency (cable only, max) | 11.5 GHz    |
| Capacitance                         | 24 pF/ft.   |
| Velocity of Propagation             | 83%         |
| Time Delay                          | 1.22 ns/ft. |
| Shielding Effectiveness up to 18GHz | >90 dB      |
| Power Handling                      | See Chart   |

#### Mechanical Characteristics:

|                                 |                    |
|---------------------------------|--------------------|
| Weight                          | 2.9 oz/ft (267g/m) |
| Minimum Bend Radius inches (mm) | 3.0" (76.2mm)      |

#### Environmental Characteristics:

|  |                      |
|--|----------------------|
| Operating Temperature Range <sup>1</sup> | -65°C to +165°C      |
| RoHS (2002/95/EC)                        | Available on request |

<sup>1</sup>+200°C available on request

VSWR for assemblies with two straight connectors 1.35:1 to 11 GHz



## 480 Series (Continued)

### Attenuation (max)

| GHz | 4806   |       | Power(W) @ 20°C<br>@ Sea Level |
|-----|--------|-------|--------------------------------|
|     | dB/ft. | dB/m  |                                |
| .04 | 0.006  | 0.020 | 7500                           |
| 1   | 0.030  | 0.098 | 3250                           |
| 2   | 0.043  | 0.141 | 2260                           |
| 4   | 0.064  | 0.210 | 1650                           |
| 6   | 0.080  | 0.262 | 1300                           |
| 8   | 0.095  | 0.312 | 1100                           |
| 10  | 0.109  | 0.358 | 950                            |
| 11  | 0.116  | 0.380 | 900                            |

