



## Specifications

Impedance 50 Ohms
 Op Temp -40 to +194°F -65 to +125°C

|                         | Units        |              |
|-------------------------|--------------|--------------|
| Maximum Diameter        | in (mm)      | 0.105 (2.67) |
| Weight                  | lb/ft (kg/m) | 0.015 (0.02) |
| Minimum Bend Radius     | in (mm)      | 0.25 (6.4)   |
| Velocity of Propagation | %            | 69.5         |
| Capacitance             | pF/ft (pF/m) | 29.30 (96.1) |
| Shielding Effectiveness | dB           | > 100        |
| Cutoff Frequency        | GHz          | 60           |
| Time Delay              | ns/ft (ns/m) | 1.45 (4.76)  |

## Attenuation (max)

| Frequency GHz | dB/ft | dB/m |
|---------------|-------|------|
| 4             | 0.46  | 1.51 |
| 8             | 0.68  | 2.23 |
| 12            | 0.85  | 2.79 |
| 18            | 1.06  | 3.48 |
| 26            | 1.31  | 4.30 |
| 32            | 1.50  | 4.92 |
| 40            | 1.70  | 5.58 |
| 60            | 2.17  | 7.12 |

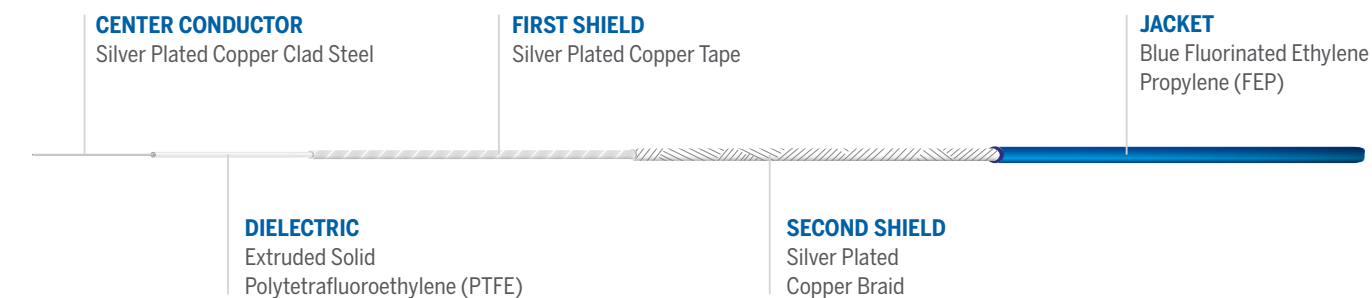
## Calculation

$$IL = (K1 \times v(f) + K2 \times f) \times \text{Cable Length} + \text{Connector Loss}$$

Cable Insertion Loss  
 $f = \text{Frequency (MHz)}$ 
 Use K values with matching length unit

| K values | dB/ft    | dB/m     |
|----------|----------|----------|
| K1       | 0.006746 | 0.022132 |
| K2       | 0.000009 | 0.000028 |

## Cable Details



## Connectors\*

| Type          | Gender           | Description             | Part Number      | Stock Code | Connector Code | Max. Frequency | Connector Loss  |
|---------------|------------------|-------------------------|------------------|------------|----------------|----------------|-----------------|
| 2.4mm         | Male             | Straight Plug           | EZ-405-24M-SS    | 3190-6317  | 24M            | 40             | 0.1 x vf (GHz)  |
|               | Female           | Straight Jacket         | EZ-405-KF-SS     | 3190-6309  | KF             | 40             | 0.1 x vf (GHz)  |
| Bulkhead Jack |                  | EZ-405-KF-BH-SS         | 3190-6810        | KFBH       | 40             | 0.1 x vf (GHz) |                 |
| Male          |                  | Straight Plug           | EZ-405-KM-SS     | 3190-6225  | KM             | 40             | 0.05 x vf (GHz) |
|               | Right Angle Plug | EZ-405-KM-RA-SS         | 3190-6834        | KMR        | 40             | 0.1 x vf (GHz) |                 |
| SMA           | Female           | Straight Jack           | TC-405-SF        | 3190-2838  | SF             | 18             | 0.1 x vf (GHz)  |
|               |                  | Bulkhead Jack           | SC-405-SF-BH     | 3190-6327  | SFBH           | 18             | 0.1 x vf (GHz)  |
|               | Male             | Straight Plug           | SC-405-SM        | 3190-6236  | SM             | 18             | 0.1 x vf (GHz)  |
|               |                  | Right Angle Plug        | TC-405-SM-RA     | 3190-2901  | SMR            | 18             | 0.1 x vf (GHz)  |
| SMP           | Female           | Straight Female Plug    | TC-405-SMPF      | 3190-6329  | SMPF           | 40             | 0.05 x vf (GHz) |
|               |                  | Right Angle Female Plug | SC-405-SMPF-RA   | 3190-6045  | SMPFR          | 14             | 0.1 x vf (GHz)  |
| Mini SMP      | Female           | Straight Female Plug    | EZ-405-MSMPF     | 3190-6314  | SMPMF          | 40             | 0.1 x vf (GHz)  |
|               |                  | Right Angle Female Plug | EZ-405-MSMPF-RA  | 3190-6840  | SMPMFR         | 40             | 0.1 x vf (GHz)  |
| TNC           | Female           | Bulkhead Jack           | TC-405-TF-BH-SSL | 3190-7063  | TFBH           | 18             | 0.1 x vf (GHz)  |
|               | Male             | Straight Plug           | TC-405-TM-LW-SS  | 3190-6733  | TM             | 18             | 0.1 x vf (GHz)  |

\* More connector options available upon request

## Ordering Guide

**TFLEX405**    -XXX    XXX-    XX.X    X  
 Cable Code    Connector A    Connector B    Length    Units of measure: I = Inches, F = Feet, M = Meters