

XtendedFlex® 174



XtendedFlex® 174 is a versatile high-flexure cable for a wide array of applications. With a double-shield construction, XF-174 provides the high shielding effectiveness required in high-density applications - with an expected lifespan of over 1 million flexure cycles.

The XtendedFlex family of cables have been designed and tested to support high flex and continuous flex applications.

Features

- High Flexibility
- Ideal for All Dynamic Applications
- ≥ 1M Flex Cycles
- Exceptional Flex Life

Specifications

| | |
|--|---|
|  Impedance 50 Ohms |  Op Temp -85 to +221°F -65 to +105°C |
| Units | |

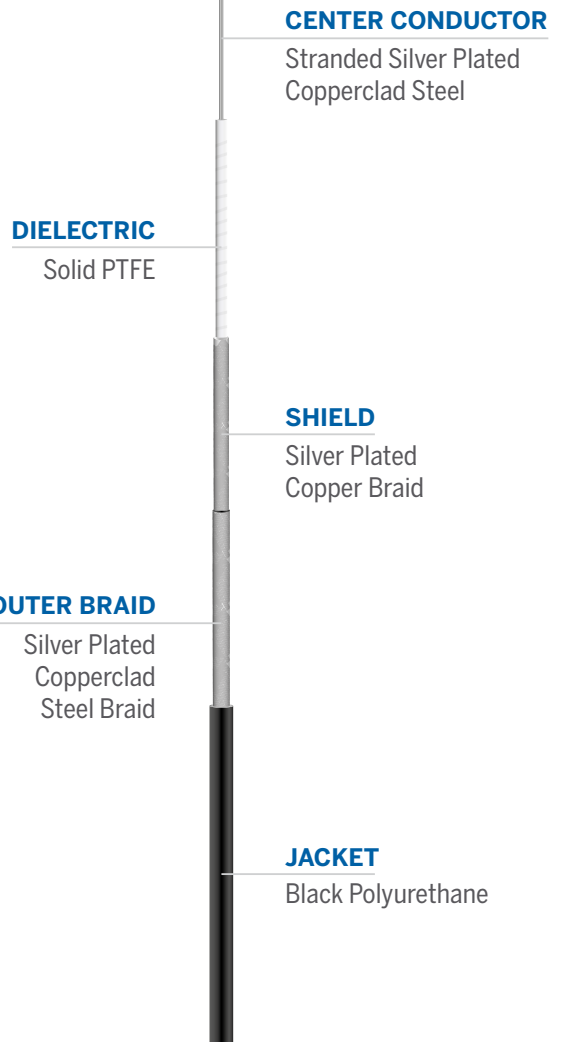
| | | |
|-------------------------|--------------|--------------|
| Diameter | in (mm) | 0.111 (2.82) |
| Weight | g/m | 20.1 |
| Minimum Bend Radius | in (mm) | 0.50 (12.7) |
| Maximum Frequency | GHz | 8.0 |
| Velocity of Propagation | % | 70 |
| Capacitance | pF/ft (pF/m) | 29.7 (97.4) |
| Time Delay | ns/ft (ns/m) | 1.45 (4.76) |
| Shielding Effectiveness | dB | -80 |

Calculation

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

Cable Insertion Loss
Use K values with
f = Frequency (MHz)
matching length unit

| K Values | dB/100ft | dB/100m |
|----------|----------|---------|
| K1 | 0.99030 | 3.24917 |
| K2 | 0.00079 | 0.00259 |



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Cable Assembly Ordering Guide

XF174

Cable Code

- Code

Connector A

Code -

Connector B

XX.X

Length

XX

Units of measure: I = Inches, CM = Centimeters

Connector Options

| Interface | Gender | Orientation | Part Number | Stock Code | Connector Code |
|-----------|--------|-------------|-------------|------------|----------------|
| SMA | Male | Straight | SC-100-SM | 3190-2245 | SM |



Global manufacturing capability:
US, Asia, and India.



Assembled and tested assemblies
provide assured performance.

Rev. 3: 4/2026

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