

XtendedFlex™ 142



XtendedFlex™ 142 combines low loss with long flex life to make it an excellent solution for dynamic applications that demand high power transfer efficiency or signal integrity. With operating frequency well into K band, it is the ideal coaxial transmission line for microwave antenna, telescopic mast, and rotary joints, especially in harsh environments.

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

Features

- High Flexibility
- High Frequency
- Low Attenuation
- Exceptional Flex Life
- Highly Shielded

Specifications

 Impedance
50 Ohms
  Op Temp
-85 to +302°F
-65 to +150°C

Units

	in (mm)	
Diameter	0.172 (4.37)	
Weight	47.6	g/m
Minimum Bend Radius	0.75 (19.1)	in (mm)
Maximum Frequency	26.5	GHz
Velocity of Propagation	76	%
Capacitance	26.6 (87.3)	pF/ft (pF/m)
Time Delay	1.34 (4.39)	ns/ft (ns/m)
Shielding Effectiveness	-90	dB

Calculation

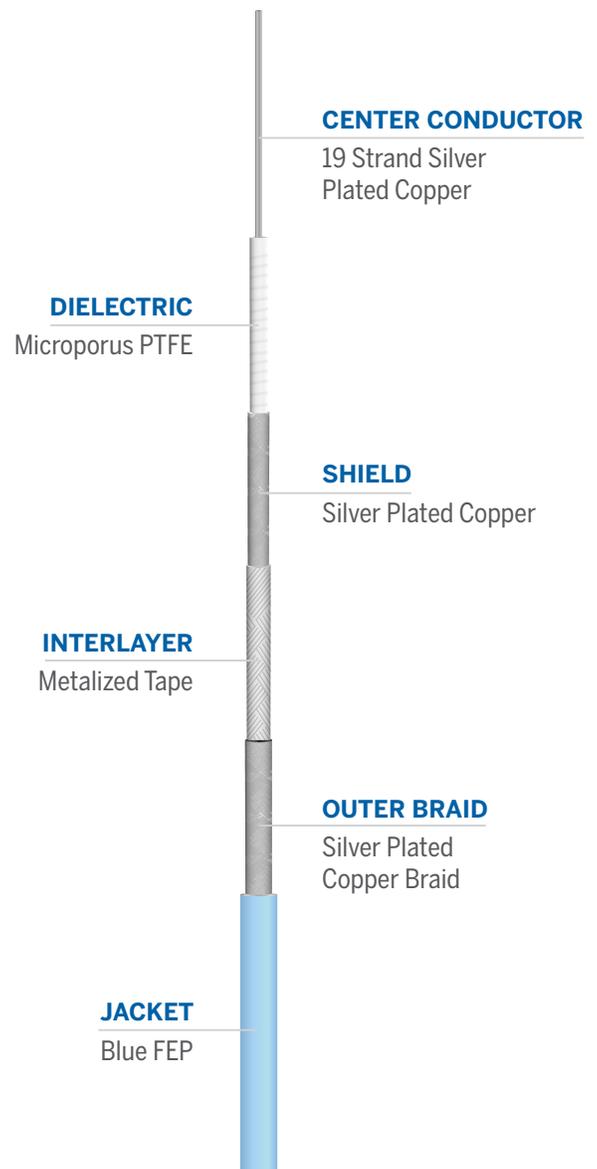
$$IL = (K1 \times \sqrt{f}) + K2 \times f \times \text{Cable Length}$$

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K Values **dB/100ft** **dB/100m**

K1	0.34840	1.1431
K2	0.00015	0.00049



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Cable Assembly Ordering Guide

XF142

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	TC-200-SM-SS-X	3190-6544	SM
		Right Angle	TC-200-SM-RA-D	3190-6428	SMR
N	Male	Straight	TC-200-NMH-X	3190-2882	NM
		Right Angle	TC-195-NMH-RA-D	3190-6542	NMR



Global manufacturing capability:
US, Asia, and India.



Assembled and tested assemblies
provide assured performance.

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