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

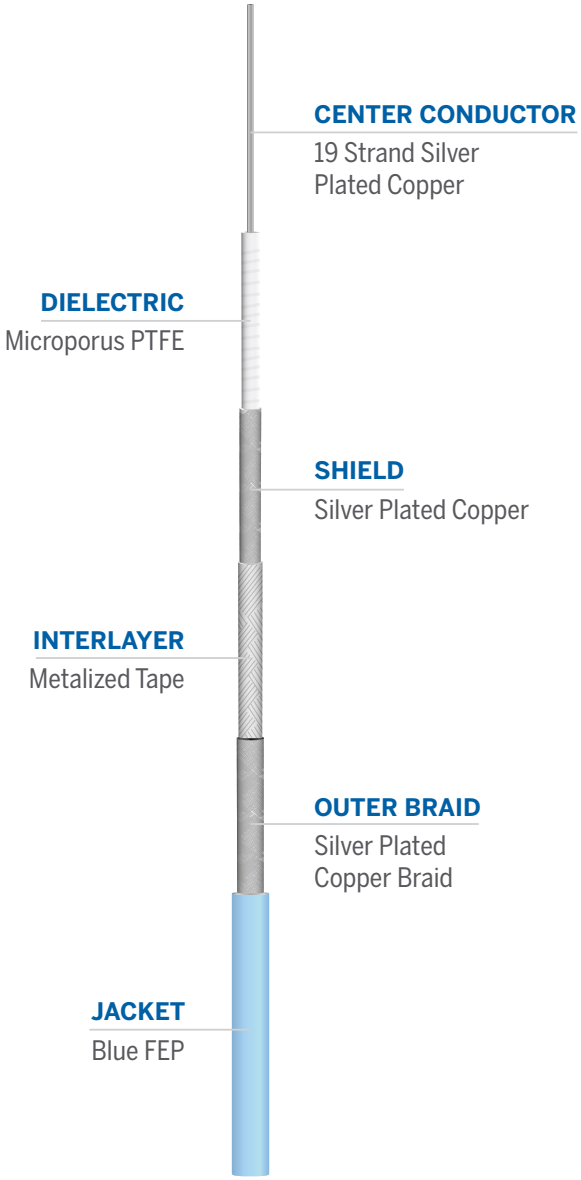
Calculation

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

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	-Code	Code-	XX.X	XX
Cable Code	Connector A	Connector B	Length	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.

Rev. 2: 4/2026

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