

XtendedFlex® 178

Continuous/High Flex Coaxial Cable



XtendedFlex® is a solution for applications requiring constant cable motion and flexibility. Its innovative design and unique material composition ensure consistent performance under millions of flexures.

Features:

- Optimal bend movement
- Consistent electrical performance during continuous flexure

Specifications

Ω Impedance
50 Ohms

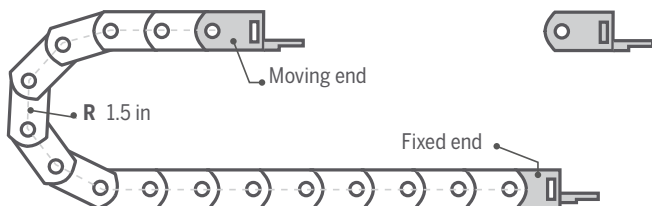
Op Temp
-40 to 221°F
-40 to 105°C

Units

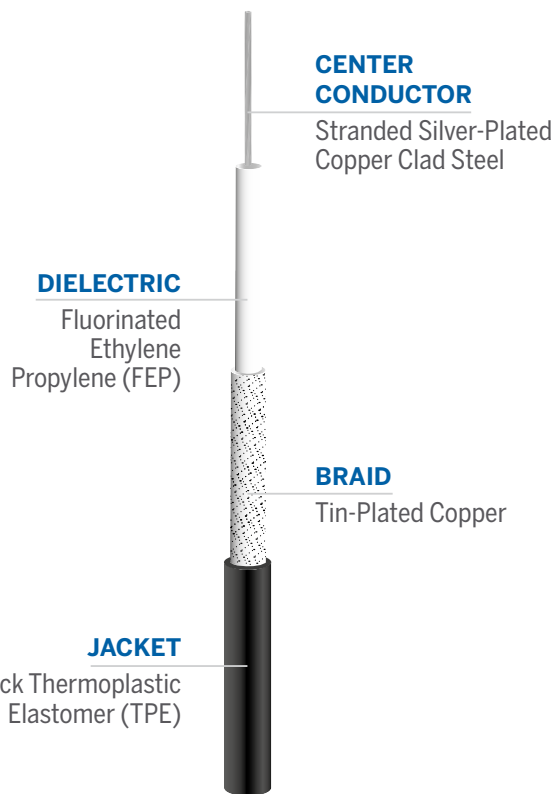
Maximum Diameter	in (mm)	0.123 (3.12)
Weight per 1000ft	lb (kgs)	7.91 (3.59)
Minimum Bend Radius	in (mm)	0.665 (16.9)
Maximum Frequency	GHz	3
Velocity of Propagation	%	70
Capacitance	pF/ft (pF/m)	31.69 (103.97)
Delay	ns/ft (ns/m)	1.45 (4.76)

Test Method

Plastic cable drag chain. XtendedFlex® can undergo millions of flexures using the detailed apparatus.



*R= bend radius



Calculation

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

Cable Insertion Loss
f = Frequency (MHz)

Use K values with matching length unit

K values	dB/ft	dB/m
K1	0.01456989	0.047801
K2	0.0000717	0.000235

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Ordering Guide

XF178

-XXX

- Connector A

XXX-

Connector B -

XX.X

Length / 3 dig

CM

in / cm

Code	Part-Number	Stock Code	Description
SMA	TC-178-SM	3190-7068	SMA male
SMR	TC-178-SM-RA	3190-7069	SMA male RA



Global manufacturing capability: US and Asia.



Assembled and tested assemblies provide assured performance.

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