

# XtendedFlex® 045

XtendedFlex® 045 is a micro-coaxial cable offering high flexibility and low shape memory. With its class-leading low attenuation, XF-045 maximizes power transfer efficiency in electrosurgical devices and signal integrity in industrial connectivity applications. The small diameter of XF-045 makes it an ideal coaxial component in high-density interconnects.

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

## Features

- Ultra-flexible
- High Power Transfer Efficiency
- Lightweight
- Exceptional Flex Life

## Specifications

	Impedance 50 Ohms	Op Temp -67 to +302°F -55 to +150°C
Units		
Diameter	in (mm)	0.045 (1.14)
Weight	g/m	3.3
Minimum Bend Radius	in (mm)	0.20 (5.08)
Maximum Frequency	GHz	18
Velocity of Propagation	%	80
Capacitance	pF/ft (pF/m)	25.4 (83.3)
Time Delay	ns/ft (ns/m)	1.27 (4.17)
Shielding Effectiveness	dB	-60

## 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	1.08320	3.55398
K2	0.000001	0.000005



### CENTER CONDUCTOR

Silver Plated Copper

### DIELECTRIC

PTFE Tape

### OUTER CONDUCTOR

Silver Plated  
Copper Flat Braid

### JACKET

PFA

# XtendedFlex® 045

## Cable Assembly Ordering Guide

**XF045**

Cable Code

-Code

Connector A

Code -

Connector B

XX.X

Length

XX

Units of measure: I = Inches, CM = Centimeters

Code	Part Number	Stock Code	Description
MCXM	3190-7039	3190-7039	MCX, male, straight



Global manufacturing capability:  
US, Asia, and India.



Assembled and tested assemblies  
provide assured performance.

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