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

Times Microwave Systems
358 Hall Avenue, Wallingford, CT 06492, USA
T 800. 867.2629
www.timesmicrowave.com

TIMES MICROWAVE SYSTEMS
AN AMPHENOL COMPANY

XtendedFlex® 045

TIMES MICROWAVE SYSTEMS
AN AMPHENOL COMPANY

Cable Assembly Ordering Guide

XF045	-Code	Code-	XX.X	XX
Cable Code	Connector A	Connector B	Length	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.

Rev. 5: 4/2026

Times Microwave Systems
358 Hall Avenue, Wallingford, CT 06492, USA
800.867.2629
www.timesmicrowave.com

XtendedFlex® is a registered trademark of Times Microwave Systems. All rights reserved.