

XtendedFlex® 045



XtendedFlex® 045 is the most compact cable in the XtendedFlex product family. Developed with the latest medical devices and minimally invasive procedures in mind, XF 045 is a versatile solution combining ultra-flexibility with low attenuation.

Features:

- Ultra-flexible
- High power transfer efficiency
- Lightweight

Specifications

Ω Impedance
50 Ohms

Op Temp
-67 to 302°F
-55 to 150°C

Units

Maximum Diameter	in (mm)	0.045 (1.14)
Weight	lb/1000/ft (kg/1000m)	2.20 (1.00)
Minimum Bend Radius	in (mm)	0.2 (5.08)
Maximum Frequency	GHz	18
Velocity of Propagation	%	80
Capacitance	pF/ft (pF/m)	25.4 (83.3)
Delay	ns/ft (ns/m)	1.27 (4.17)

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/ft	dB/m
K1	0.010832	0.035540
K2	0.000001	0.000005

CENTER CONDUCTOR

Silver Plated Copper

DIELECTRIC

PTFE Tape

OUTER CONDUCTOR

Silver Plated
Copper Flat Braid

JACKET

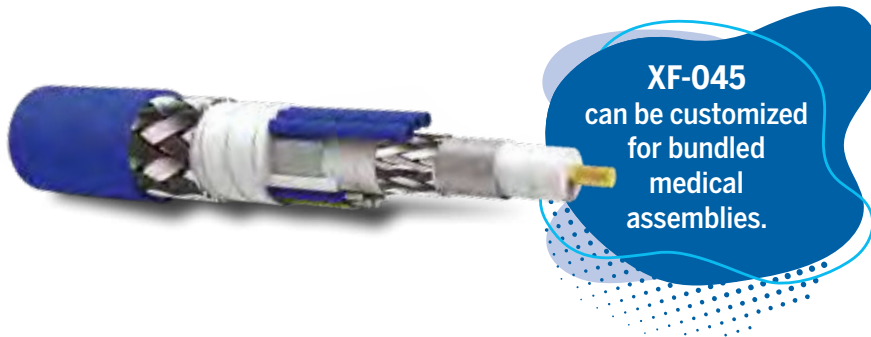
PFA

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Cable Assembly Ordering Guide



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



Global manufacturing capability: US and Asia.



Assembled and tested assemblies provide assured performance.

Rev.3: 06/2023