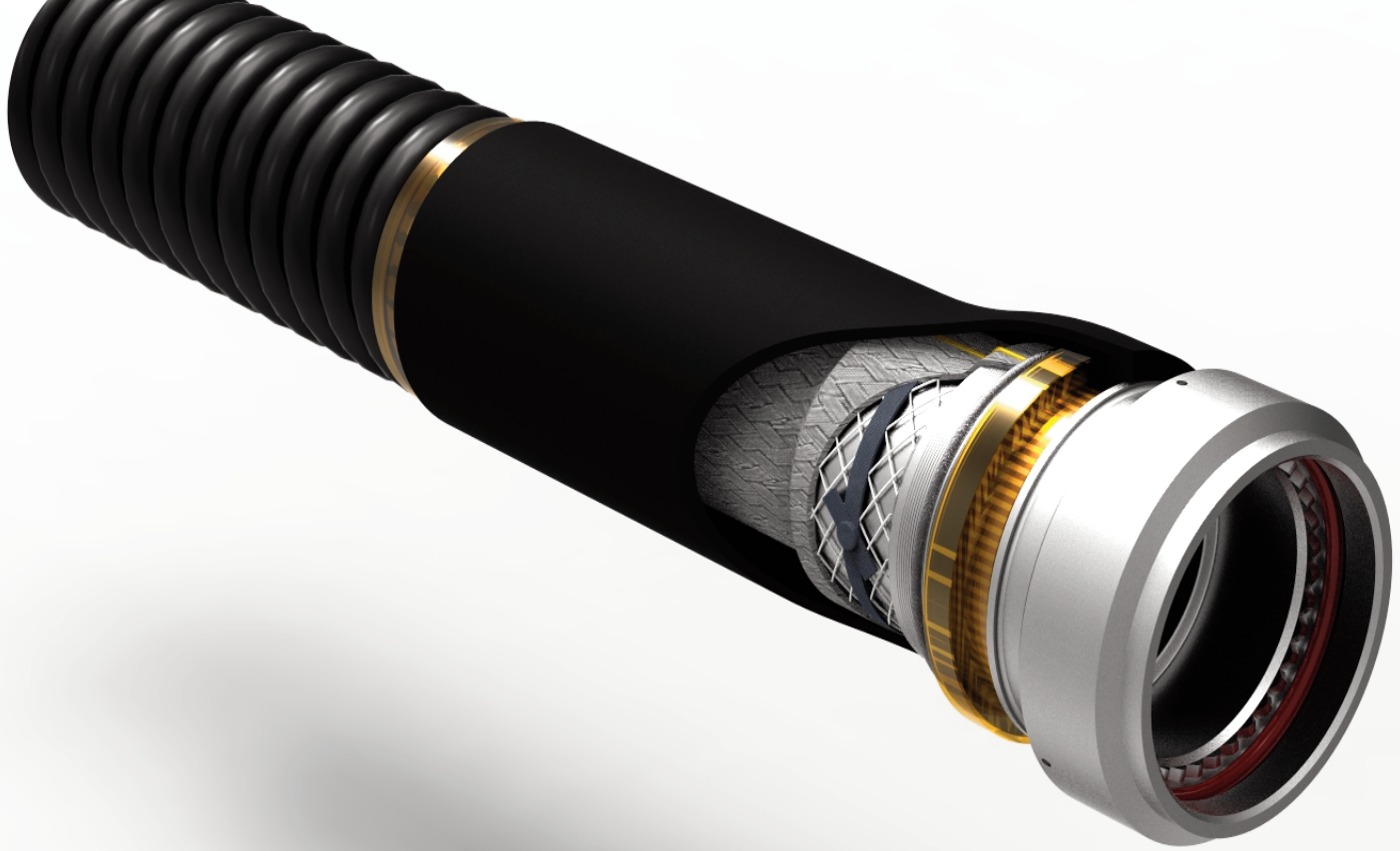




Introducing
Maulflex Conduit System

*Lightweight, Flexible, Abrasion-Resistant,
Shielded Electrical Conduit*



KEY FEATURES

Circuit design flexibility

Wire-protective Expando® lining

Reusability

Increased service life cycle

Lightweight

Crush resistant

Stands up to heavy abuse/abrasion

Strain relief/strength member

Total environmentally sealed system

Line of backshells are available for reliable termination

DESCRIPTION

Maulflex conduit systems protect integrated harnessing systems while allowing re-entry and repair.

Crosslinked outer convoluted material is highly durable and abrasion-resistant

Maulflex conduit system is a three-component integrated harnessing system. Helical conduit construction of the outer layer provides crush-resistant characteristics as well as flexibility and resistance to many chemicals, fluids and solvents. The shielding layer provides EMI protection. The internal expando layer protects wires from chafing.

APPLICATIONS

To be used in ground support test equipment cables which are constantly coiled and uncoiled in and out of metal boxes/cabinets.

ELECTRICAL

RFI and EMI shielding: Either one or two layers of tinned-copper braid are available to meet shielding requirements.

Sizes of Maulflex conduit range from .240 inches with two layers of shielding to 1.430 inches with one layer of shielding.

MATERIALS

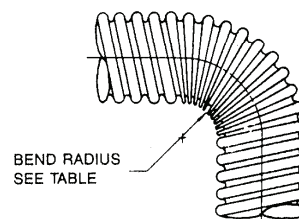
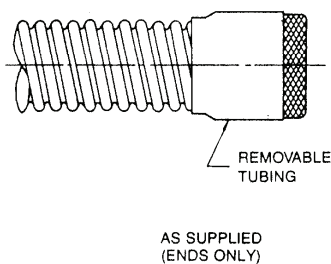
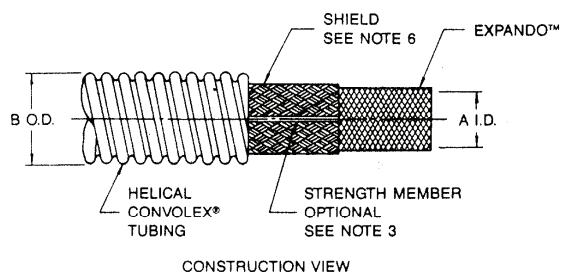
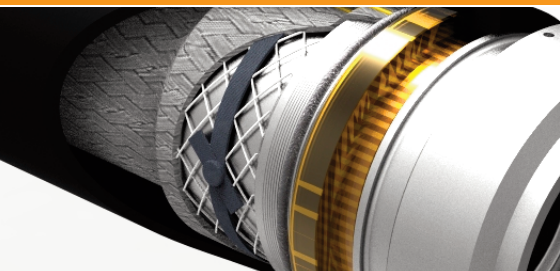
Harness fabrication involves using TE specified Mod M Tinel-Lock adapters, and Uniboosts with lightweight Maulflex conduit.

PART NUMBERS

Dimensions are inches over millimeters

Size Number	1 Layer Shield		2 Layer Shield		(B) Maximum Bend Radius 7*		Helical Convolex® Size
	(A) Minimum	Weight per 100 Feet	(A) Minimum	Weight per 100 Feet			
1	.240 (6,10)	4.1 (1,86)	.200 (5,08)	6.0 (2,72)	.510 (12,96)	.88 (22,35)	3/8
2	.312 (7,92)	5.0 (2,27)	.270 (6,86)	7.2 (3,27)	.571 (14,50)	.88 (22,35)	7/16
3	.360 (9,14)	5.8 (2,63)	.320 (8,13)	8.6 (3,90)	.650 (16,51)	1.25 (31,75)	1/2
4	.480 (12,19)	9.6 (4,35)	.440 (11,18)	13.4 (6,08)	.770 (19,56)	1.50 (38,10)	5/8
5	.600 (15,24)	11.3 (5,13)	.560 (14,22)	18.0 (8,16)	.930 (23,62)	1.75 (44,45)	3/4
6	.720 (18,29)	16.6 (7,53)	.680 (17,27)	24.1 (10,93)	1.073 (27,25)	2.00 (50,80)	7/8
7	.840 (21,34)	19.1 (8,66)	.800 (20,32)	27.7 (12,56)	1.226 (31,14)	2.37 (60,20)	1
8	1.050 (26,67)	28.8 (13,06)	1.000 (25,40)	43.6 (19,78)	1.539 (39,30)	2.75 (69,85)	1-1/4
9	1.430 (36,32)	38.4 (17,42)	1.375 (34,93)	56.2 (25,49)	1.975 (50,17)	3.63 (92,20)	1-5/8

DIMENSIONS & ORDERING INFORMATION



Ordering Information

		MAULFLEX - 6 X X - SM - XX		
Product Family Name	_____	_____	_____	Length in inches
Helical Convolex® type	_____	_____	_____	Add if strength member is required (see note 3)
-6 XLETFE per RT-1162 (see note 8)	_____	_____	_____	Size number (see table for dimensions)
Shield (see note 6)	_____	_____	_____	
1. Single layer tinned copper				
2. Two layers tinned copper				

Expando is a registered trademark of Federal Mogul.

Notes:

Notes

- Dimensions in table are in $\frac{\text{Inches}}{(\text{millimeters})}$; $\frac{\text{lbs.}}{(\text{kgms})}$
- Service rating: -55°C (-67°F) to + 150°C (+302°F).
- Two Kevlar® strength members placed longitudinally 180° apart between shield and convolex tubing. These Kevlar strength members are to be a minimum of about 12 inches longer than the convolex tubing with a minimum of 6 inches out each end and stored under the removable tubing.
- Consult factory for optional configurations.
- Standard lengths supplied: 4 feet minimum; 24 feet maximum (lengths to be specified when ordering).
- Shield material, tin coated copper per A-A-59569 and QQ-B-575.
- * The recommended minimum bend radius that can be achieved without cross sectional area reduction.
- When used as Mauflex paragraphs 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, and Table 2 inside diameter of RT-1162 are not applicable.

Kevlar is a registered trademark of E.I. duPont de Nemours & Co.

FOR MORE INFORMATION

te.com/ADM

TE Technical Support Center

Internet:	www.te.com/ADM
E-mail:	product.info@te.com
USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-34-20-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

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