



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

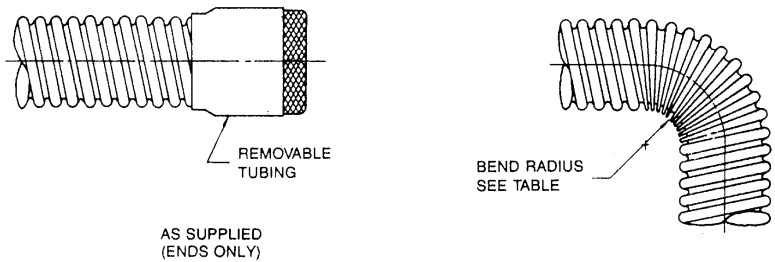
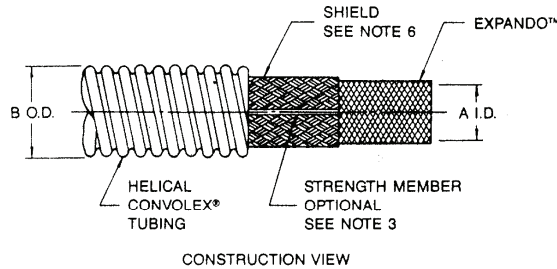
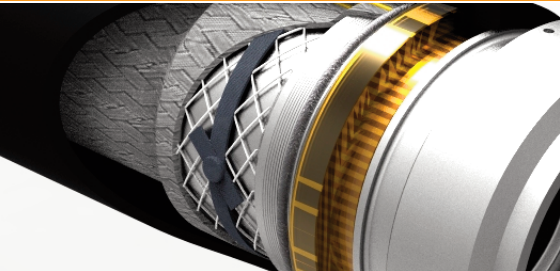
Harness fabrication involves using TE specified Mod M Tinel-Lock adapters, and Uniboosts with lightweight Maulflex conduit.

## PART NUMBERS

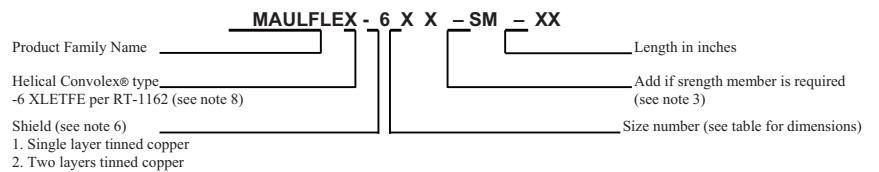
Dimensions are inches over millimeters

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 (35,30)	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



Expando is a registered trademark of Federal Mogul.

### Notes:

#### Notes

1. Dimensions in table are in  $\frac{\text{Inches}}{\text{(millimeters)}}$  ;  $\frac{\text{lbs.}}{\text{(kgms)}}$
2. Service rating: -55°C (-67°F) to + 150°C (+302°F).
3. 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.
4. Consult factory for optional configurations.
5. Standard lengths supplied: 4 feet minimum; 24 feet maximum (lengths to be specified when ordering).
6. Shield material, tin coated copper per A-A-59569 and QQ-B-575.
- 7.\* The recommended minimum bend radius that can be achieved without cross sectional area reduction.
8. 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

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9-1773461-0 2.5M ADM/FP 07/2011

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