



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

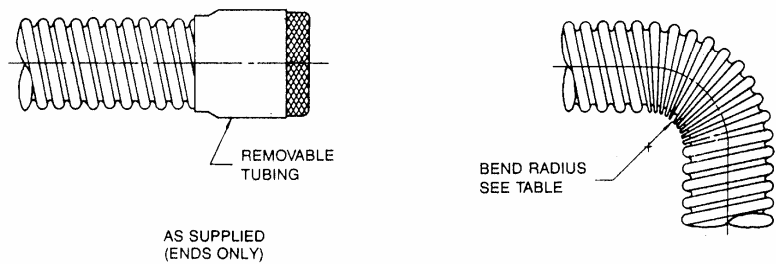
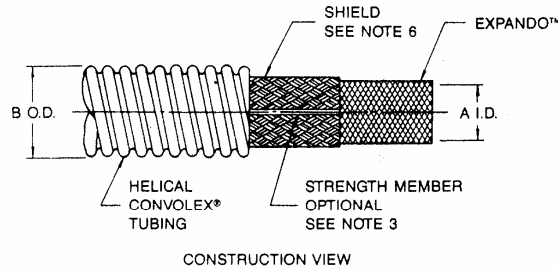
Harness fabrication involves using TE specified Mod M Tinel-Lock adapters, and Uniboosts with lightweight Maulflex conduit.

## 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

**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

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

[te.com/ADM](http://te.com/ADM)

### TE Technical Support Center

Internet: [www.te.com/ADM](http://www.te.com/ADM)  
E-mail: [product.info@te.com](mailto: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

### [te.com/ADM](http://te.com/ADM)

© 2011 Tyco Electronics Corporation, a TE Connectivity Ltd. Company. All Rights Reserved.  
9-1773461-0 2.5M ADM/FP 07/2011

CONVOLEX, TINEL-LOCK, TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and/or company names might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information herein, nothing herein constitutes any guarantee that such information is error-free or any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. The TE entity issuing this publication reserves the right to make any adjustments to the information contained herein at any time without notice. All implied warranties of merchantability or fitness for a particular purpose are expressly disclaimed. The dimensions herein are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

