

# ENGINEERING SPECIFICATION NO.

# M4641

TITLE CONDUIT – CONVOLUTED – NYLON (UTILITY GRADE)

1. GENERAL

This specification covers the requirements for convoluted conduit to be used on automotive wiring harnesses.

2. MATERIAL

The conduit shall be made from M2967002 or M2992002. The conduit shall have a highly visible longitudinal orange stripe for material identification.

3. QUALITY

The conduit shall meet all requirements of ESC-0836. The slit conduit shall process without difficulty on standard Delphi Packard N4084-1-007A conduit cutters. The slit conduit shall not be overlapped at the slit. Because of plasticizing agent in the compound, this conduit may have some faint white rings located on the mold parting lines. These rings are acceptable as long as they are not deemed to be excessive and visually objectionable.

4. INSPECTION

4.1 The conduit shall meet dimensions A & C.

4.2 Wrap the conduit around a mandrel with a diameter approx. two times the conduit I.D. with the slit 180° away from the mandrel. The slit shall not open more than 2.0mm.

4.3 Open the conduit at the slit so that the gap is approx. the same as the conduit I.D. the conduit shall not buckle or crease.

5. PACKAGING

The conduit shall be furnished in standard commercial shipping cases of adequate strength and coverage to protect the contents from damage or contamination during shipping and storage. The conduit must pull vertically from the center of the package without tangling or excessive resistance.

WM/ae

Date	Change Notice	Change
01/10/02	219481	Correct Min Wall on Code 003
10/27/04	260682	Add to Item 3

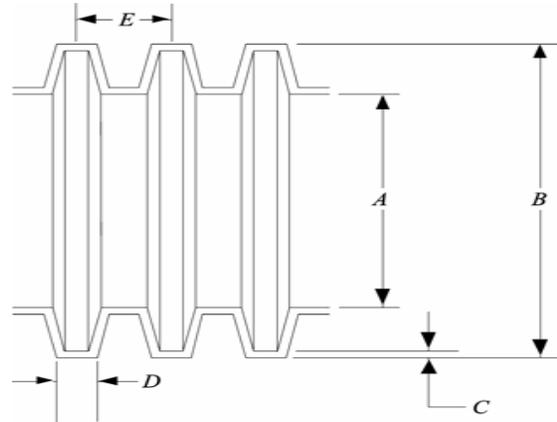
6. MARKING

Each carton shall be marked with the following information.

Name of Manufacturer	3 High
Size	Maximum
Quantity	Stacking
Spec. M4641-Code	Stacking note is to be prominently
R-XXXXX	displayed on the side with the other
	Required information and on the
	Side 180° opposite.

7. RESTRICTED AND REPORTABLE MATERIALS

All materials supplied to this specification must comply with Delphi specification 10949001 “Substances of Concern and Recycled Content”.



<u>CODE</u>	<u>PED R-SPEC</u>	<u>SIZE mm</u>	<u>SINGLE READING</u>		<u>REFERENCE</u>		<u>GRAMS/ 300mm CHAIN LENGTH</u>		<u>FORM</u>	
			<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>MINIMUM</u>		<u>MAXIMUM</u>
001	R-72575	6	6.70/6.00	10.15/9.55	0.15	1.80	2.74	4.05	4.55	SLIT
002	R-72576	9	9.19/8.56	13.11/12.47	0.15	1.80	2.74	6.35	6.90	SLIT
003	R-72581	10	10.72/10.08	15.09/14.45	0.15	1.98	3.10	6.70	7.20	SLIT
005	R-72577	16	16.00/15.37	21.23/20.60	0.18	1.88	3.10	13.75	15.25	SLIT
006	R-72578	19	19.18/18.54	25.02/24.38	0.19	1.98	3.40	18.00	21.00	SLIT
007	R-72579	22	22.52/21.88	29.00/28.38	0.21	1.98	3.40	21.50	25.50	SLIT