

ENGINEERING SPECIFICATION NO.

M1889**TITLE CONDUIT – CONVOLUTED – NYLON****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 black nylon, M-2170-001. The conduit shall have a highly visible, longitudinal gray stripe for material identification.

3. QUALITY

The conduit shall meet all requirements of ES-C-836. The conduit shall process without difficulty on standard Delphi Packard N4048-1-007A conduit cutters. The conduit shall not be overlapped at the slit. As a result of the plasticizing agent in the compound, the 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 to the product.

4. INSPECTION

4.1 The conduit shall meet dimensions A, B, & 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/as

Date	Change Notice	Change
2/15/99	-----	-----
03/27/01	208247	Correct Items 2, 3 and 7

6. MARKING

Each carton shall be marked with the following information.

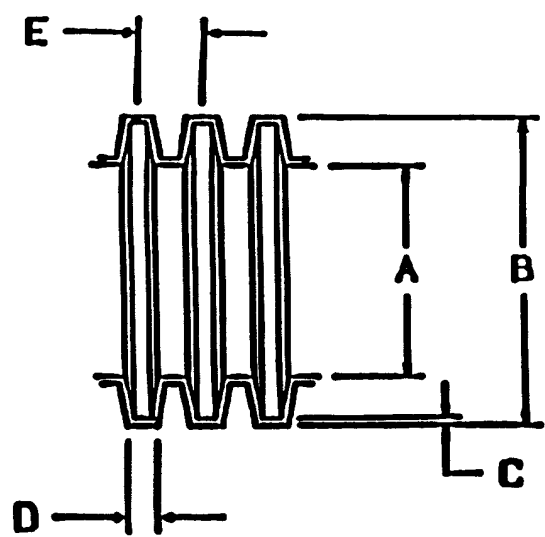
Name of Manufacturer
Size
Quantity
Purchase Order Number
Spec. M-1889-CODE
R-XXXXX

3 High
Maximum
Stacking

Stacking note is to be prominently
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 Automotive Systems specification 10949001
“Substances of Concern and Recycled Content”.



<u>CODE</u>	<u>Delphi-P R-SPEC</u>	<u>SIZE mm</u>	<u>MIN. WALL SINGLE READING</u>					<u>WEIGHT</u> Grams/Chain 300 mm		<u>FORM</u>
			<u>A</u>	<u>B</u>	<u>C</u>	<u>REFERENCE</u>		<u>MIN.</u>	<u>MAX.</u>	
						<u>D</u>	<u>E</u>			
001	R-64498	6	6.70/6.00	10.15/9.55	0.12	1.80	2.74	4.00	4.50	SLIT
002	R-68235	9	9.19/8.56	13.11/12.47	0.15	1.80	2.74	6.40	6.90	SLIT
003	R-68236	10	10.72/10.08	15.09/14.45	0.15	1.98	3.10	6.85	7.35	SLIT
004	R-68237	13	12.93/12.29	17.65/17.02	0.18	1.98	3.10	9.20	10.20	SLIT
005	R-68238	16	16.00/15.37	21.23/20.60	0.18	1.88	3.10	11.80	13.80	SLIT
006	R-68240	19	19.18/18.54	25.02/24.38	0.19	1.98	3.40	15.00	18.00	SLIT
007	R-65716	22	22.52/21.88	29.00/28.36	0.21	1.98	3.40	21.50	25.50	SLIT
008	R-68423	25	26.04/25.40	33.10/32.46	0.23	1.98	3.40	25.50	30.50	SLIT
009	R-70239	30	30.50/29.50	38.10/37.10	0.23	2.15	4.23	31.00	37.00	SLIT
101	R-68995	6	6.70/6.00	10.15/9.55	0.12	1.80	2.74	4.00	4.50	UNSLIT
102	R-68491	9	9.19/8.56	13.11/12.47	0.15	1.80	2.74	6.40	6.90	UNSLIT
103	R-68708	10	10.72/10.08	15.09/14.45	0.15	1.98	3.10	6.85	7.35	UNSLIT

104	R-68709	13	12.93/12.29	17.65/17.02	0.18	1.98	3.10	9.20	10.20	UNSLIT
105	R-72221	16	16.00/15.37	21.32/20.60	0.18	1.88	3.10	11.80	13.80	UNSLIT
106	R-72523	19	19.18/18.54	25.02/24.38	0.19	1.98	3.40	15.00	18.00	UNSLIT
107	R-72524	22	22.52/21.88	29.00/28.36	0.21	1.98	3.40	21.50	25.50	UNSLIT
108	R-66128	25	26.04/25.40	33.10/32.46	0.23	1.98	3.40	25.50	30.50	UNSLIT
109	R-66318	30	30.50/29.50	38.10/37.10	0.23	2.15	4.23	31.00	37.00	UNSLIT
010	R-70240	8	8.00/7.50	12.00/11.30	0.15	1.60	2.74	5.75	6.25	SLIT
011	R-70434	40	41.00/39.00	49.70/47.70	0.25	2.20	5.08	38.00	46.00	SLIT

NOTE: Any non-standard container with a 500 Series code indicates that the carton contains 1/2 the typical standard pack quantity.

EXAMPLE: M-1889-001 6mm Size 25,000 feet Typical pack quantity
M-1889-501 6mm Size 12,500 feet 1/2 pack quantity