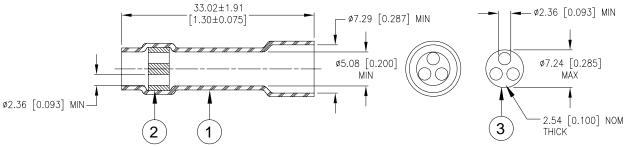
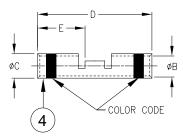
SPECIFICATION CONTROL DRAWING



Item #1: SEALING SLEEVE



Item #2: CRIMP SPLICE

MATERIALS

- 1. INSULATION SLEEVE: Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene flouride.
- 2. INTEGRAL MULTI-WIRE SEAL: Low outgassing immersion resistant thermoplastic.
- 3. SEPARATE MULTI-WIRE SEAL: Low outgassing immersion resistant thermoplastic.
- 4. CRIMP SPLICE: Base Metal: Copper Alloy 101 or 102 per ASTM B-75.

Plating: Nickel per SAE AMS-QQ-N-290.

Color Code: See table below.

Dimensions:

Difficilisions.							
Part	Crimp Splice						
Name	øB	øС	D	Е	Color Code		
D-436-88	1.27 [0.050]	<u>2.03 [0.080]</u>	12.95 [0.510]	6.22 [0.245]	Dad		
D-430-88	1.14 [0.045]	1.91 [0.075]	12.45 [0.490]	5.72 [0.225]	Red		
D-436-89	1.75 [0.069]	<u>2.70</u> [0.106]	14.86 [0.585]	7.11 [0.280]	Blue		
D-430-89	1.63 [0.064]	2.57 [0.101]	14.35 [0.565]	6.60 [0.260]	blue		
D-436-90	2.60 [0.102]	<u>3.91</u> [0.154]	<u>14.86</u> [0.585]	7.11 [0.280]	Yellow		
	2.46 [0.097]	3.73 [0.147]	14.35 [0.565]	6.60 [0.260]	1 ellow		

Installation Data:

-						
Dout	Wire Size Range of Crimp Splice (AWG)					
Part Name	Two wires		Three wires			
	Minimum	Maximum	Minimum	Maximum		
D-436-88	26	24	28	24		
D-436-89	24	20	24	22		
D-436-90	22	16	22	18		

tyco Electronics	_	300 Const	ronics Corporatio itution Drive, k, CA. 94025, U.		Raychem	IN-LINE SPLICE SEALING SYSTEM, MULTI-WIRE SPLICER NICKEL PLATED, COLOR CODED, WITH INSPECTION SLOTS			
Unless otherwise [Inches dimension			ns are in millimet ckets]	ters.		DOCUMENT NO.:	D-43	6-88/-90	
TOLERANCES: 0.00 N/A 0.0 N/A	ROUG	ES: N/A HNESS IN	this drawing at an evaluate the suital	ny time. U	the right to amend Users should the product for their	REV.: DATE:		Feb-06	
0 N/A CAGE CODE : 06090	MICRO	REPLAC			NUMBER: D060019	SCALE:		SIZE:	SHEET: 1 of 2

SPECIFICATION CONTROL DRAWING

MIL Spec equivalent size and wire accomodation:

Part	MIL Spec	Wire Size	Wgt. Lbs/Mpc
Name	Equivalent Size	Range (AWG)	max
D-436-88	M81824/1-1	26 - 20	1.02
D-436-89	M81824/1-2	20 - 16	1.61
D-436-90	M81824/1-3	16 - 12	2.72

APPLICATION

- 1. These parts are designed to provide immersion resistant in-line splices of 2 or 3 to 2 or 3 wires falling within the size range listed on sheet 1, having nickel-plated conductors and insulations rated for at least 135°C.
- 2. Parts are available only as an assembly of one of each Item #1 and Item #2.
- 3. Parts are to be installed per assembly procedure as outlined below.
- 4. Inside diameter and outside diameter of splice are to be measured in crimp area, 2.54 to 5.08mm [0.100 to 0.200in] from ends of part. Slight burr permitted on parted surfaces.
- 5. Acceptance sampling shall be in accordance with Paragraph 4.6.1 of SAE AS81824.
- 6. Packing and packaging shall be in accordance with Section 5, Level C, of SAE AS81824.
- 7. This document takes precedence over documents referenced herein.

ASSEMBLY PROCEDURE

1.0 SCOPE

This document outlines the procedure to be followed to obtain immersion resistant multiple wire butt splices using Multi-Wire In-Line Splice Sealing system D-436-88/-90.

2.0 PROCEDURE

- a) Pass the wires to be attached to one barrel through the separate multi-wire seal (3). Pass the wires to be attached to the other barrel through the sealing sleeve from the three hole insert end.
- b) Strip wires 5/16" to 11/32" and crimp into splice using a Raychem AD-1377 crimp tool. Care must be taken so that the wires remain untwisted between the splice and the separate multi-wire seal (3) or the sealing sleeve cannot be positioned properly.
- c) Position the separate multi-wire seal (3) as close as possible to the splice. Hold this piece in position by squeezing the wires directly behind it, and slide the sealing sleeve over the assembly so that the separate multi-wire seal (3) is as far inside the sleeve as possible.
- d) Apply heat, using the recommended heat source, first to the separate multi-wire seal end, and then to the other. Heat should be applied until insert melts and flows axially along the wire.

3.0 RECOMMENDED RAYCHEM HEATING TOOLS

Heater	Reflector	Recommended setting	
Heat Gun CV-1981	PR52D	7.5 - 8	
Steinel HL-1802E	PR52D	8 - 9	

Unless otherwise specified, dimensions are in millimeters. [Inches dimensions are shown in rackets]

DOCUMENT NO.:	DCR NUMBER:	REV.:	DATE:	SHEET:
D-436-88/-90	D060019	В	6-Feb-06	2 of 2