

14.60±0.25 (0.575±0.010) (0.270±0.010) O.D. I.D. COLOR CODE

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 fluoroelastomer. Color: BLUE.
- 3. SEPARATE MULTI-WIRE SEAL: Low outgassing immersion resistant thermoplastic fluoroelastomer. Color: BLUE.
- 4. CRIMP SPLICER: Base Metal: Copper Alloy 101 or 102 per ASTM B-75.

Plating: Tin per MIL-T-10727, Type 1.

Color Code: See table below.

		Dimen	sions: Crimp Spl	lice	Installation Data: Wire Size Range of Crimp Splicer				
Part	Prod.	I.D.±0.05	$O.D.\pm0.08$	Color	Two Wires		Three Wires		
Name	Rev.	(I.D.±0.002)	$(O.D.\pm0.003)$	Code	Minimum	Maximum	Minimum	Maximum	
D-436-42	F	1.70 (0.067)	2.62 (0.103)	Blue	2 x 24	2 x 20	3 x 24	3 x 22	
D-436-43	A	2.54 (0.100)	3.81 (0.150)	Yellow	2 x 22	2 x 16	3 x 22	3 x 18	

APPLICATION

- 1. These parts are designed to provide an immersion resistant in-line splices of 2 or 3 to 2 or 3 wires falling within the size range listed above, having 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. Crimp splicer may be installed with Raychem AD-1377 crimp tool or equivalent.
- 4. Inside diameter and outside diameter of splice are to be measured in crimp area, 2.54 to 5.08 (0.100 to 0.200) from ends of part. Slight burr permitted on parted surfaces.
- 5. Acceptance sampling shall be in accordance with paragraph 4.6.1 of MIL-T-7928.
- 6. Packing and packaging shall be in accordance with Section 5, Level C, of MIL-T-7928.
- 7. This document takes precedence over documents referenced herein.

=	TE Connectivity		•	chem vices	IN-LINE SPLICE SEALING SYSTEM, MULTI-WIRE				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS. INCHES DIMENSIONS ARE BETWEEN BRACKETS.						DOCUMENT NO.: D-436-42/-43			
TOLERANCES: 0.00 N/A 0.0 N/A 0 N/A	A ROUGHNESS IN CHANGE THIS DRAWING AT ANYTIMI EVALUATE THE SUITABILITY OF THE THERE APPLICATION			E. USER SHOULD	DATE: June 26	5, 2015	REVISION:	С	
			APPROVED: ECO NUMBER: RODRIGUEZ 15-0098			SCALE: None		SIZE:	SHEET: 1 of 4

1.0 TEST ASSEMBLIES

The test assemblies for qualification testing shall be 3 to 3 in-line splices made in wire conforming to MIL-W-81044/12 or MIL-W-16878/4. The assemblies shall be divided equally between the maximum and minimum wire size as shown below:

Assembly	Minimum	Maximum
D-436-42	24	22
D-436-43	22	18

The qualification sample shall consists of 35 assemblies and 8 uninstalled sleeves.

1.1 Acceptance Testing:

Acceptance sampling shall be in accordance with ANSI/ASQC Z1.4, Inspection Level S-4. The Acceptable Quality Level shall be 4.0 for all defects.

Acceptance tests shall consist of visual and dimensional examination.

2.0 QUALIFICATION TESTING:

.1 All sleeves shall be tested for compliance with Sheet 1 in regard to:

Property Test Method

Material and Appearance Visual Examination

Dimensions MIL-I-23053, Paragraph 4.6.3

2.2 Test Group A: Ten assemblies shall pass the post conditioning tests after conditioning in the sequence shown:

Post Conditioning	Requirement	Test Method
Insulation Resistance	5000 M @500V d-c	MIL-W-81044, Par. 4.7.5.2
Altitude Immersion	75,000 ft.	MIL-C-26500, Par. 4.7.21
Insulation Resistance	5000 M @500V d-c	MIL-W-81044, Par. 4.7.5.2
Dielectric Withstanding	2.5Kv (rms) for 1 min.	MIL-W-81044, Par. 4.7.5.1
Conditioning	Parameters	Test method
Altitude Immersion	75,000 ft.	MIL-C-26500, Par. 4.7.21
Immersion	Condition C	Method 104*
Temperature Cycling	-65°C to 150°C (5 cycles)	Method 102*
Moisture Resistance	Step 7b not required	Method 106*
Fluid Immersion	MIL-H-5606, MIL-L-7808	MIL-T-7928, Par. 4.8.8
Heat Aging	96 hours @200°C	Method 108*

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			APPROVED: CODRIGUEZ	ECO NUMBER: 15-00)9842	SCALE: None		SIZE:	SHEET: 2 of 4

2.3 Test Group B: Ten Assemblies:

Test Sequence	Requirement	Test Method		
Insulation Resistance	5000 M @500V d-c	MIL-W-81044, Par. 4.7.5.2		
Vibration	MIL-STD-202, Method 201	MIL-T-7928, Par. 4.8.6		
Insulation Resistance	5000 M @500V d-c	MIL-W-81044, Par. 4.7.5.2		
Altitude Immersion	75,000 ft. (1 cycle)	MIL-C-26500, Par. 4.7.21		
Insulation Resistance	5000 Megaohms	MIL-W-81044, Par. 4.7.5.2		
Voltage Drop**	Wire Equivalent + 2.0 millivolts (maximum)	MIL-T-7928, Par. 4.8.1		
Tensile Strength	Table II	MIL-T-7928, Par. 4.8.7		

^{*} Test methods are per MIL-STD-202.

2.4 Test Group C: Ten Assemblies:

Test Sequence	Requirement	Test Method		
Insulation Resistance	5000 M @500V d-c	MIL-W-81044, Par. 4.7.5.2		
Salt Spray (Corrosion)***		MIL-T-7928, Par. 4.8.4		
Insulation Resistance	5000 M @500V d-c	MIL-W-81044, Par. 4.7.5.2		
Altitude Immersion	75,000 ft. (1 cycle)	MIL-C-26500, Par. 4.7.21		
Insulation Resistance	5000 M @500V d-c	MIL-W-81044, Par. 4.7.5.2		
Voltage Drop**	Wire Equivalent + 2.0 millivolts (maximum)	MIL-T-7928, Par. 4.8.1		
Tensile Strength	Table II	MIL-T-7928, Par. 4.8.7		

^{***} Lead ends to be sealed prior to exposure.

2.5 Test Group D: Five Assemblies:

Test Requirement Test Method

Flammability Self Extinguishing MIL-T-7928, Par. 4.8.10

within 15 seconds

2.6 Test Group E: Three Sleeves:

Test Requirement Test Method

Corrosive Effect Non-Corrosive MIL-I-23053, Par. 4.6.10.2

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^{**} Test current shall be equal to 3X the rated current fot the smallest gauge wire used.

2.7 Test Group F: Five Sleeves:

Test Requirement Test Method

Insulation Shrinkage Sheet 1 MIL-I-23053, Par. 4.6.3.2.2

(5 minutes @ 300°C)

Longitudinal Change $\pm 10\%$ MIL-I-23053, Par. 4.6.5.1

(5 minutes @ 300°C)

TEHRMOFIT ASSEMBLY PROCEDURE:

1.0 SCOPE

This document outlines the procedure to be followed to obtain immersion resistant multiple wire butt splices using Thermofit Multi-Wire In-Line Splice Sealing System D-436-42/-43.

2.0 PROCEDURE

- a) Pass the wires to be attached to one barrel through the separate three wire seal. (Item 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 splicer using one of the approved crimping tools (see below). Care must be taken that the wires remain untwisted between the splice and the three wire seals or the sealing sleeve cannot be positioned properly.
- c) Position the separate seal as close as possible to the splicer. Hold this piece in position by squeezing the wires directly behind it, and slide the sealing sleeve over the assembly so that the separate seal is as far inside the sleeve as possible.
- d) Apply heat, using the recommended heat source, first to the "separate" seal end, and then the other. Heat should be applied until insert melts and flows axially along the wires.

3.0 RECOMMENDED TOOLS

a. Crimp Tools

Manufacturer	Model Number
Raychem	AD-1377
Buchanan Electric Products	614080
Daniels manufacturing Company	OT-609

b. Heat Tools

Heater	Reflector
Thermogun #500A	TG-14
Shop Air Heater #CV-4504	991180
Mini-Gun #CV-5300	991319

Heater should be operated to give an air stream temperature of at least 550°F.

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