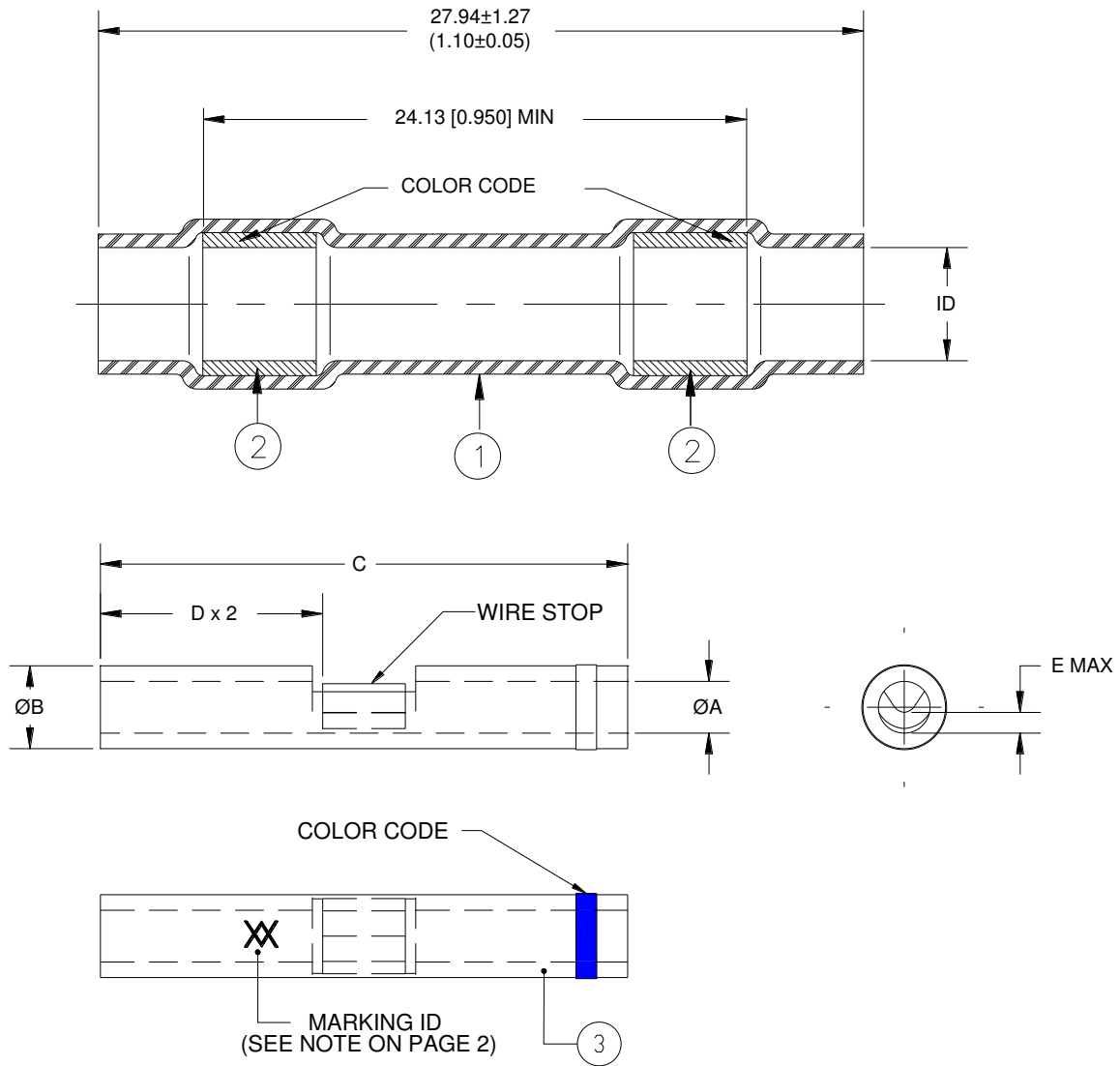



## CUSTOMER DRAWING



\* I.D.: a) As received; b) After unrestricted recovery thru meltable insert.

### MATERIALS

1. **INSULATION SLEEVE:** Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride.
2. **SEALING RINGS:** Immersion resistant thermoplastic. Color: one clear, one color coded (see table below).
3. **CRIMP SPLICER:**  
 Base Metal: Copper alloy 101 or 102 per ASTM B-75.  
 Plating: Tin, per ASTM B545.  
 Stamp marking XX approximately as shown on the back of inspection window.  
 Color code: See table I.

			<b>TITLE:</b> <b>SEALED IN-LINE CRIMP SPLICE</b>		
Unless otherwise specified dimensions are in millimeters. [Inches dimensions are shown in brackets]		Raychem Devices	<b>DOCUMENT NO.:</b> <b>D-436-36/-37/-38CS9376</b>		
<b>TOLERANCES:</b> 0.00 N/A 0.0 N/A 0 N/A	<b>ANGLES:</b> N/A  <b>ROUGHNESS</b> IN MICRON	Tyco Electronics reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application.		<b>REV:</b>  A1	<b>DATE:</b>  24AUG2022
<b>PREPARED BY:</b> RANJITHA B	<b>CAGE CODE:</b> 06090	<b>ECN NUMBER:</b> ECN-22-171550		<b>SCALE:</b>  NTS	<b>SIZE:</b> A <b>SHEET:</b> 1 of 3

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# CUSTOMER DRAWING

## TABLE I - DIMENSIONS

Part Name	I.D.* a min b max	Crimp Splicer						Wgt. Lbs/Mpc max
		øA	øB	C	D	E max	Color Code	
D-436-36 CS9376	<u>2.16</u> (0.085) 0.64 (0.025)	<u>1.27 (0.050)</u> 1.14 (0.045)	<u>2.03 (0.080)</u> 1.91 (0.075)	<u>12.95 (0.510)</u> 12.45 (0.490)	<u>6.22 (0.245)</u> 5.72 (0.225)	0.38 (0.015)	Red	1.02
D-436-37 CS9376	<u>2.79</u> (0.110) 0.64 (0.025)	<u>1.75 (0.069)</u> 1.63 (0.064)	<u>2.70 (0.106)</u> 2.57 (0.101)	<u>14.86 (0.585)</u> 14.35 (0.565)	<u>7.11 (0.280)</u> 6.60 (0.260)	0.51 (0.020)	Blue	1.61
D-436-38 CS9376	<u>4.32</u> (0.170) 0.64 (0.025)	<u>2.60 (0.102)</u> 2.46 (0.097)	<u>3.89 (0.153)</u> 3.73 (0.147)	<u>14.86 (0.585)</u> 14.35 (0.565)	<u>7.11 (0.280)</u> 6.60 (0.260)	1.27 (0.050)	Yellow	2.72

\* I.D: a- As received; b- After unrestricted recovery thru meltable insert.

## TABLE II – RECOMMENDED WIRE RANGE BASED ON CONDUCTOR CMA (mm<sup>2</sup>) (REFERENCE)


PART NUMBER	MIL SPEC EQUIVALENT SIZE	SINGLE WIRE	MULTIPLE WIRE RANGE CMA (mm <sup>2</sup> )	MULTIPLE WIRE TOTAL OD (OD <sub>1</sub> + OD <sub>2</sub> ) MAX
D-436-36CS9376	M81824/1-1	26-24-22-20	304 - 1510 (0.15 - 0.75)	0.085 (2.16)
D-436-37CS9376	M81824/1-2	20-18-16	1058 - 2680 (0.53 - 1.34)	0.110 (2.79)
D-436-38CS9376	M81824/1-3	16-14-12	2375 - 6755 (1.19 - 3.37)	0.170 (4.32)

## TABLE III – STANDARD CONDUCTOR CMA (REFERENCE)

CONDUCTOR CONFIGURATION	SIZE							
	26	24	22	20	18	16	14	12
STRANDS	19	19	19	19	19	19	19	37
CMA	304	475	754	1216	1900	2426	3831	5874
(MM <sup>2</sup> )	(0.15)	(0.24)	(0.38)	(0.61)	(0.95)	(1.21)	(1.92)	(2.94)

### APPLICATION

1. These parts are designed to provide immersion resistant in-line splices, maximum of two wires per side of crimp and falling within the diameter range specified in this customer drawing, and having insulations rated for 135°C.
2. When installed per Raychem recommendation, assemblies will meet requirements of Raychem Specification RT-1404 and SAE AS81824/1
3. Acceptance sampling shall be in accordance with paragraph 4.6.1 of AS81824™.
4. Packing and packaging shall be in accordance with Section 5, Level C of AS81824™.
5. This document takes precedence over documents reference herein.

			TITLE: <b>SEALED IN-LINE CRIMP SPLICE</b>					
Unless otherwise specified dimensions are in millimeters. [Inches dimensions are shown in brackets]			Raychem Devices		DOCUMENT NO.: <b>D-436-36/-37/-38CS9376</b>			
TOLERANCES: 0.00 N/A 0.0 N/A 0 N/A	ANGLES: N/A	Tyco Electronics reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application.			REV: <b>A1</b>		DATE: <b>24AUG2022</b>	
ROUGHNESS IN MICRON					SCALE: <b>NTS</b>		SIZE: <b>A</b>	SHEET: <b>2 of 3</b>
PREPARED BY: <b>RANJITHA B</b>	CAGE CODE: <b>06090</b>	ECN NUMBER: <b>ECN-22-171550</b>						


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# CUSTOMER DRAWING

**ASSEMBLY PROCEDURE:**

1. Slide sealing sleeve over both wires on one side of the crimp if two wires will be use.
2. Strip wires 5/16" to 11/32".
3. Insert one or two wires on one side of the crimp barrel and crimp using a Raychem AD-1377 crimp tool. Repeat on the opposite side of the crimp.
4. Center sealing sleeve over the splice.
5. Apply heat, using an approved heat source, first to one of the inserts and then the other. Heat should be applied until insert melts and flows axially along the wire.

			TITLE: <b>SEALED IN-LINE CRIMP SPLICE</b>		
Unless otherwise specified dimensions are in millimeters. [Inches dimensions are shown in brackets]		Raychem Devices	DOCUMENT NO.: <b>D-436-36/-37/-38CS9376</b>		
TOLERANCES: 0.00 N/A 0.0 N/A 0 N/A	ANGLES: N/A  ROUGHNESS IN MICRON	Tyco Electronics reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application.	REV: A1	DATE: 24AUG2022	
PREPARED BY: <b>RANJITHA B</b>	CAGE CODE: 06090	ECN NUMBER: ECN-22-171550	SCALE: NTS	SIZE: A	SHEET: 3 of 3

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