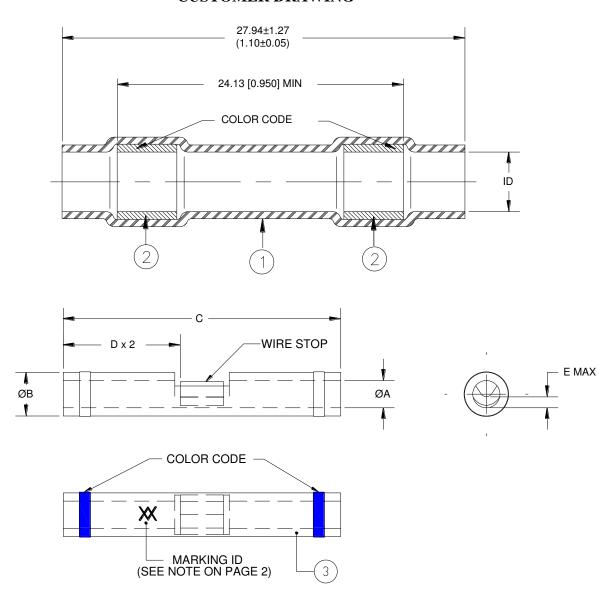
# **CUSTOMER DRAWING**



## **MATERIALS**

- 1. INSULATION SLEEVE: Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene flouride.
- 2. MELTABLE RINGS: Immersion resistant thermoplastic; one clear, one color coded per table I.
- 3. CRIMP SPLICER: Base Metal: Copper Alloy 101 or 102 per ASTM B-75.

Plating: Nickel per QQ-N-290.

Color Code: See table I.

Stamp marking XX approximately as shown on the back of inspection window.

| =TE TE Conne                                |  |  | nectivity  |                           | <b>ychem</b><br>evices | ,                                 | NICKEL PL<br>IN-LINE SPI |                | ,     |                  |  |
|---|--|--|--|---------------------------|------------------------|-----------------------------------|--------------------------|----------------|-------|------------------|--|
|   | Unless otherwise specified dimensions are in millimeters. Inches dimensions are in between brackets. |  |  |                           |                        | DOCUMENT NO.: <b>D-436-82/-84</b> |                          |                |       |                  |  |
| TOLERANCES:<br>0.00 N/A<br>0.0 N/A<br>0 N/A | 00 N/A ROUGHNESS IN this drawing evaluate the  |  | ctivity reserves the right to<br>ag at any time. Users sho<br>e suitability of the produ<br>i. | ould                      | DATE: Augu             | ust 17,                           | 2016                     | REV.           |       |                  |  |
| DRAWN BY:<br>tnguyen                        | cage code: 06090   |  |  | ECO NUMBER:<br>ECO-14-012 | 2043                   | PROD. REV.<br>SEE TAB             | BLE                      | SCALE:<br>None | SIZE: | SHEET:<br>1 of 3 |  |

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## **CUSTOMER DRAWING**

#### TABLE I – DIMENSION TABLE

| Part<br>Name | I.D.*                        | Crimp Splicer                |                              |                                |                              |                 |               |                        |  |  |  |
|--------------|------------------------------|------------------------------|------------------------------|--------------------------------|------------------------------|-----------------|---------------|------------------------|--|--|--|
|              | a min<br>b max               | øA                           | øB                           | С                              | D                            | E<br>max        | Color<br>Code | Wgt.<br>Lbs/Mpc<br>max |  |  |  |
| D-436-82     | 2.16 (0.085)<br>0.64 (0.025) | 1.27 (0.050)<br>1.14 (0.045) | 2.03 (0.080)<br>1.91 (0.075) | 12.95 (0.510)<br>12.45 (0.490) | 6.22 (0.245)<br>5.72 (0.225) | 0.38<br>(0.015) | Red           | 1.02                   |  |  |  |
| D-436-83     | 2.79 (0.110)<br>0.64 (0.025) | 1.75 (0.069)<br>1.63 (0.064) | 2.70 (0.106)<br>2.57 (0.101) | 14.86 (0.585)<br>14.35 (0.565) | 7.11 (0.280)<br>6.60 (0.260) | 0.51<br>(0.020) | Blue          | 1.61                   |  |  |  |
| D-436-84     | 4.32 (0.170)<br>0.64 (0.025) | 2.60 (0.102)<br>2.46 (0.097) | 3.89 (0.153)<br>3.73 (0.147) | 14.86 (0.585)<br>14.35 (0.565) | 7.11 (0.280)<br>6.60 (0.260) | 1.27<br>(0.050) | Yellow        | 2.72                   |  |  |  |

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

# TABLE II – RECOMMENDED WIRE RANGE BASED ON CONDUCTOR CMA (mm2) (REFERENCE)

| PART NUMBER | MIL SPEC<br>EQUIVALENT<br>SIZE | SINGLE WIRE | MULTIPLE WIRE RANGE<br>CMA (mm²) | MULTIPLE WIRE TOTAL<br>OD (OD <sub>1+</sub> OD <sub>2)</sub> MAX |
|-------------|--------------------------------|-------------|----------------------------------|--|
| D-436-82    | M81824/6                       | 26-24-22-20 | 304 - 1510 (0.15 - 0.75)         | 0.085 (2.16)   |
| D-436-83    | M81824/6                       | 20-18-16    | 1058 - 2680 (0.53 – 1.34)        | 0.110 (2.79)   |
| D-436-84    | M81824/6                       | 16-14-12    | 2375 – 6755 (1.19 – 3.37)        | 0.170 (4.32)   |

#### TABLE III – STANDARD CONDUCTOR CMA (REFERENCE)

| CONDUCTOR     |        | SIZE   |        |        |        |        |        |        |  |  |  |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| CONFIGURATION | 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   |  |  |  |
| $(MM^2)$      | (0.15) | (0.24) | (0.38) | (0.61) | (0.95) | (1.21) | (1.92) | (2.94) |  |  |  |

# **APPLICATION**

- 1. These parts are designed to provide an 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 at least 135°C.
- 2. Parts will meet all performance requirements of AS81824/6<sup>Tm</sup>, EN 3373-001 and EN 3373-012 when installed as outlined below.
- 3. Acceptance sampling shall be in accordance with Paragraph 4.6.1 of AS81824<sup>Tm</sup>.
- 4. Packing and packaging shall be in accordance with Section 5, Level C, of AS81824<sup>Tm</sup>.
- 5. This document takes precedence over documents referenced herein.
  - Tm-AS81824 is a trademark of SAE

| <b>=TE</b> TE Con                           |  |  | nectivity  | -    | <b>ychem</b><br>evices | ,                                 | NICKEL PL<br>IN-LINE SPI |       | ,             |  |  |
|---|--|--|--|------|------------------------|-----------------------------------|--------------------------|-------|---------------|--|--|
|   | Unless otherwise specified dimensions are in millimeters. Inches dimensions are in between brackets. |  |  |      |                        | DOCUMENT NO.: <b>D-436-82/-84</b> |                          |       |               |  |  |
| TOLERANCES:<br>0.00 N/A<br>0.0 N/A<br>0 N/A | N/A this drawir<br>/A ROUGHNESS IN evaluate th   |  | ctivity reserves the right to<br>ag at any time. Users sho<br>e suitability of the produ<br>i. | ould | DATE: Augi             | ust 17,                           | 2016                     | REV.  |               |  |  |
| DRAWN BY: CAGE CODE: tnguyen 06090          |  |  | ECO NUMBER:<br>ECO-14-012  | 2043 | PROD. REV.<br>SEE TAB  | BLE                               | SCALE:<br>None           | SIZE: | SHEET: 2 of 3 |  |  |

# **CUSTOMER DRAWING**

## **ASSEMBLY PROCEDURE:**

- 1. Slide sealing sleeve over both wire on one side of the crimp if two wires will be use.
- 2. Strip wires 7.95 [5/16"] to 8.73 [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.

| <b>=TE</b> TE Con  |                  |                           | inectivity                |   | <b>/chem</b><br>evices            | ,          | NICKEL PLA<br>IN-LINE SPI |       | ,             |  |
|--|------------------|---------------------------|---------------------------|---|-----------------------------------|------------|---------------------------|-------|---------------|--|
| Unless otherwise specified dimensions are in millimeters. Inches dimensions are in between brackets. |                  |                           |                           |   | DOCUMENT NO.: <b>D-436-82/-84</b> |            |                           |       |               |  |
| TOLERANCES:<br>0.00 N/A<br>0.0 N/A<br>0 N/A  |                  | ES: N/A<br>HNESS IN<br>DN | this drawin               | etivity reserves the right of<br>g at any time. Users sho<br>e suitability of the produ | ould                              | DATE: Augu | ıst 17,                   | 2016  | REV.          |  |
| DRAWN BY:<br>tnguyen   | CAGE CODE: 06090 |                           | ECO NUMBER:<br>ECO-14-012 | 2043  | PROD. REV.<br>SEE TAB             | LE         | SCALE:<br>None            | SIZE: | SHEET: 3 of 3 |  |