Introducing Cold Applied Splices
Cold Applied Splices

KEY FEATURES
- One-step termination and environmental protection
- No heating required for installation — safe for use on fueled aircraft
- Reliable in a wide variety of environmental conditions
- Achieve environmental performance while maintaining:
  - Small profile
  - Electrical performance
- Easy installation and application flexibility
- Prevents water ingress under permanent pressure/weight

DESCRIPTION
The cold applied splice product line is designed as a single component in-line splice to provide high environmental protection to seal the termination from moisture and provide electrical isolation. If moisture is present, it can lead to insulation failure and breakdown of the electrical connection.

In this product, sealing is achieved by replacing traditional methods, such as grommets, greases and tapes with a novel TE gel technology. The electrical isolation is provided by a polymer outer layer.

APPLICATIONS
Ideal for aerospace and defense application where performance and reliability is essential

Designed to provide an immersion resistant in-line splice on 1:1 wires
- Wide range from 26 AWG to 12 AWG
- Nickel-plated, silver-plated, and tin-plated conductors
- Insulation rated for at least 135˚C

Protects and seals on all conventional MIL spec and commercial wire insulation systems

STANDARDS & Specs
Meets or exceeds the following:
- SAE-AMS-DTL-23053/8 (Insulation sleeve)
- SAE AS81824/12

Under qualification for SAE AS81824 and AS81824/12

ORDERING INFORMATION
Minimum order quantity: 500 pieces for all sizes

ENVIRONMENTAL
- Temperature range: -65˚C to 150˚C
- Dielectric strength: 2500 V Maximum
- Insulation resistance: 5000 megohms minimum
- Altitude immersion: 75,000 ft.

ELECTRICAL
Current rating as defined by the size of crimp, gauge of wire and specification

MECHANICAL
Cold splice tensile strength exceeds strength of spliced wire

 PHYSICAL OR OTHER PROPERTIES
Cross-linked gel technology:
- Proven gel sealing system
- Versatile gel closure
- Non-flowing gel

MATERIALS
Insulation sleeve: Transparent polyvinylidene fluoride
Metal crimp splice: Tin plated copper
End caps: Thermoplastic, color coded
Gel: Clear flame-retardant silicone based gel

APPLICATION TOOLING
Cold Applied Crimp Tool: AD-1381
Under qualification per M22520/44-01
AD-1381 or approved M22520/44-01 crimp tool must be used for proper installation of these devices

PART NUMBERS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Wire Range</th>
<th>L ± 1.0 (±0.040)</th>
<th>eA ± 0.5 (±0.020)</th>
<th>eB ± 0.25 (±0.012)</th>
<th>eC ± 0.5 (±0.020)</th>
<th>D ± 0.25 (±0.010)</th>
<th>End Cap Color Code (Both Ends)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-436-36-COLD</td>
<td>26-24-22-20</td>
<td>36.8 (1.450)</td>
<td>4.2 (0.165)</td>
<td>2.0 (0.080)</td>
<td>3.7 (0.145)</td>
<td>12.7 (0.475)</td>
<td>-Red</td>
</tr>
<tr>
<td>D-436-37-COLD</td>
<td>18-16</td>
<td>38.7 (1.525)</td>
<td>1.1 (0.020)</td>
<td>0.9 (0.015)</td>
<td>4.5 (0.175)</td>
<td>14.1 (0.565)</td>
<td>-Blue</td>
</tr>
<tr>
<td>D-436-38-COLD</td>
<td>14-12</td>
<td>38.7 (1.525)</td>
<td>5.9 (0.235)</td>
<td>3.8 (0.150)</td>
<td>4.2 (0.205)</td>
<td>14.3 (0.565)</td>
<td>-Yellow</td>
</tr>
</tbody>
</table>

Dimensions are in millimeters (inches)