



# D-436-3X-COLD Cold Applied Splice

March 2, 2011

# D-436-3X Cold Applied Splice

## Product Description

- In-line Splice
  - Tin-plated crimp barrel
  - Cross-linked gel
  - Transparent Fluoropolymer outer sleeve
- One-step installation
- 150° C applications
- Small and lightweight
- Environmentally sealed
- Under Qualification to new SAE AS81824/12 specification



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## Applications

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- Ideal for permanent repair field applications where performance and reliability are required
- Source of heat is not required. Ideal for fueled environments
- Designed to provide an immersion resistant in-line splice on 1:1 wires for the following:
  - Wire range from 26 AWG to 12 AWG
  - Nickel-plated, Silver-plated, and Tin-plated conductors
  - Cross-linked ETFE, TFE, and TKT conductor insulations
  - Made possible by clear flame retarded silicone based gel

# D-436-3X Cold Applied Splice

## Features and Benefits

|  |  |
|--|--|
| Sealed Crimp Splice  | Immersion resistance   |
| Meeting/exceeding all requirements of SAE-AS81824/12       | 150°C continuous operating temperature   |
| One Step Termination                                       | Easy to install  |
| New high performance flame retarded clear gel              | Seals to un-etched wire insulations, for example PTFE                            |
| Long-term performance                                      | Provides a permanent repair connection   |
| Transparent insulation sleeve and clear flame retarded gel | Provides environmental protection, strain relief, and an inspectable termination |

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## Performance Data

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- Met or exceeded the performance requirements of:
  - SAE-AS81824/12 (modified for pre-insulated gel filled splices)
- Test report for performance data available upon request (ISTR-0904)
  - Physical properties
    - Tensile Strength: exceeds strength of spliced conductor
    - Heat Aging: 750 hours at 150° C
    - Altitude Immersion: 75,000 feet immersion
  - Chemical properties, fluid resistance to
    - MIL-L-7808, MIL-L,23699, MIL-H-5606, MIL-A-8243, MIL-C-87937, and MIL-T-5624 (JP-5)
  - Electrical properties
    - Voltage Drop: less than equivalent length of wire
    - Dielectric Strength: 2,500 V Maximum
    - Insulation Resistance: 5,000 MΩ Minimum

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In Summary

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- Environment-resistant seal
- One step installation
- Does not require heat to provide sealed connection
- 150°C rated
- Excellent long-term performance
- Meets 81824/12
- Seals to all known wire insulations including TFE
- Termination requires TE AD-1381 crimp tool
  - Under qualification to M22520/44-01