

## DuraSeal Heat-Shrinkable, Environmentally Sealed, Nylon-Insulated Crimp Splices

### Product Facts

- Protects splices from water, condensation, salt, and corrosion
- Provides strain relief
- Protects against vibration in rugged environments
- Completely insulates and protects electrical connections
- Has adhesive lining for protection that is more reliable than conventional splices
- UL, CUL



### Applications

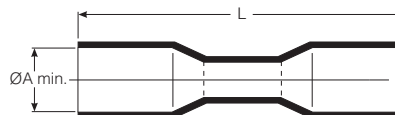
- Automotive/truck wiring repair and maintenance.
- Automotive accessory installations.
- OEM automotive/truck/RV wire harness fabrication.
- Marine electronics.
- Fleet maintenance.
- Commercial wiring (pumps/pools/spas).
- Appliances.

### Specifications/Approvals

| Series | Agency                              | TE     |
|--------|-------------------------------------|--------|
| D-406  | UL and CUL listed 91J4, File E87681 | RB-107 |

Note: D406-0034 is not UL approved.

### Product Dimensions Butt Splices



#### Available in:

- Americas
- Europe
- Asia Pacific

| Part No.   | Butt Splice Dimensions |             | Color  | Conductor | Wire Dimensions        |                        |
|------------|------------------------|-------------|--------|-----------|------------------------|------------------------|
|            | A Min.                 | L Nom.      |        |           | Insulation O.D. (Max.) | Insulation O.D. (Min.) |
| D-406-0034 | 3.00 [.118]            | 31.5 [1.24] | Yellow | 26-24     | 3.00 [.118]            | 1.40 [.055]            |
| D-406-0001 | 3.70 [.146]            | 31.5 [1.24] | Red    | 22-18     | 3.70 [.146]            | 1.40 [.055]            |
| D-406-0002 | 4.60 [.181]            | 31.5 [1.24] | Blue   | 16-14     | 4.60 [.181]            | 2.00 [.080]            |
| D-406-0003 | 6.50 [.255]            | 37.5 [1.48] | Yellow | 12-10     | 6.50 [.255]            | 2.80 [.110]            |

## DuraSeal Heat-Shrinkable, Environmentally Sealed, Nylon-Insulated Crimp Splices (Continued)

### Product Selection Process

1. Determine wire size.
2. Select part number.

| Wire Size<br>AWG | mm <sup>2</sup> | Part No.   | Color  |
|------------------|-----------------|------------|--------|
| 26-24            | 0.15-0.25       | D-406-0034 | Yellow |
| 22-18            | 0.5-1.0         | D-406-0001 | Red    |
| 16-14            | 1.2-2.5         | D-406-0002 | Blue   |
| 12-10            | 3-6             | D-406-0003 | Yellow |

### Product Characteristics (Typical)

|                       |                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature | -55°C to 125°C [-67°F to 257°F]                                                                                                                                                                                                           |
| Shrink ratio          | Approximately 2:1                                                                                                                                                                                                                         |
| Physical properties   | Cut-through resistance: 31 kg [70 lb]<br>Wire pullout after crimping and recovery: red: 11.3 kg [25 lb]; blue: 22.7 kg [50 lb]; yellow: 27.2 kg [60 lb]<br>Not flame-retardant<br>No cracking after heat aging for 168 h at 160°C [320°F] |
| Chemical properties   | Solvent resistance: isopropyl alcohol, trichloroethylene, gasoline, battery acid, diesel fuel, motor oil, antifreeze, brake fluid, 5% salt water                                                                                          |
| Electrical properties | Dielectric strength: 2500 Vac<br>Insulation resistance: 1000 megohms at 100 Vdc                                                                                                                                                           |

### Installation Requirements

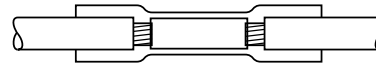
For proper installation of these devices, the correct crimp tool and a heating tool with a reflector attachment must be used. The AD-1522 crimp tool and HL1910E/ HL2010E heating tool are recommended.

You will find ordering information for these tools in Section 10.

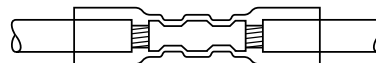
Refer to TE installation procedure RPIP-821-00 for detailed instructions.

### Installation

1. Select splice of appropriate size. Strip wire 7.5 mm (5/16 in). Insert into crimp barrel.



2. Crimp using AD-1522 crimp tool for preinsulated crimps.



3. Heat crimped splice with heat gun until tubing recovers and adhesive flows.

