

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, and Lloyd's listed



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.

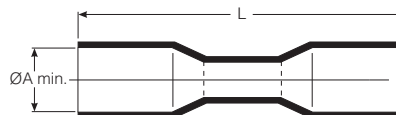
Specifications/Approvals

| Series | Agency | TE |
|--------|--------------------------------------|--------|
| D-406 | UL and CUL listed 91J4, File E87681 | RB-107 |
| — | Lloyd's listed, File 65 247 HH 02-93 | — |

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 [1.10] |

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

Product Selection Process

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

| Wire Size AWG | mm ² | 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] Wire pullout after crimping and recovery: red: 11.3 kg [25 lb]; blue: 22.7 kg [50 lb]; yellow: 27.2 kg [60 lb] Not flame-retardant 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 Insulation resistance: 1000 megohms at 100 Vdc |

Installation Requirements

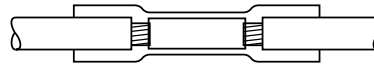
For proper installation of these devices, the correct crimp tool and a heating tool with a reflector attachment must be used. The AD-1522 crimp tool and HL1910E/ HL2010E heating tool are recommended.

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

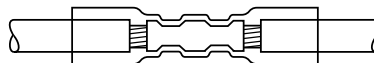
Refer to TE installation procedure RPIP-821-00 for detailed instructions.

Installation

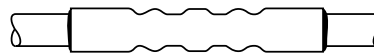
1. Select splice of appropriate size. Strip wire 7.5 mm (5/16 in). Insert into crimp barrel.



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



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



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