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.

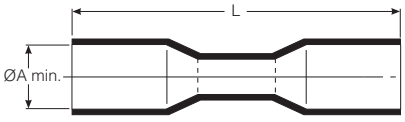
Specifications/Approvals

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



Part No.	Butt Splice Dimensions A Min.	Butt Splice Dimensions L Nom.	Color	Conductor	Wire Dimensions Insulation O.D. (Max.)	Wire Dimensions 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]

Available in:

Americas	■
Europe	■
Asia Pacific	■

Catalog 1654025
Revised 5-12

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Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 (800) 522-6752

Canada: +1 (905) 475-6222
Mexico/C. Am.: +52 (0) 55-1106-0800
Latin/S. Am.: +54 (0) 11-4733-2200
Germany: +49 (0) 6251-133-1999

UK: +44 (0) 800-267666
France: +33 (0) 1-3420-8686
Netherlands: +31 (0) 73-6246-999
China: +86 (0) 400-820-6015

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

Product Selection Process

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

Wire Size AWG	mm²	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

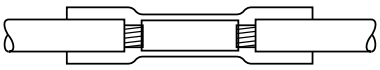
For proper installation of these devices, the correct crimp tool and a heating tool with a reflector attachment must be used. The AD-1522 crimp tool and HL1910E/ HL2010E heating tool are recommended.

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

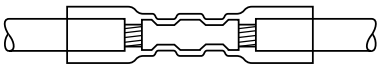
Refer to TE installation procedure RPIP-821-00 for detailed instructions.

Installation

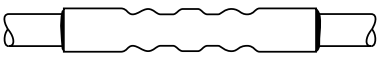
1. Select splice of appropriate size. Strip wire 7.5 mm (5/16 in). Insert into crimp barrel.



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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