



Wire-to-Wire Splicing

DuraSeal heat-shrinkable, environmentally sealed, nylon-insulated crimp splices



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).

Features and benefits

- 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.



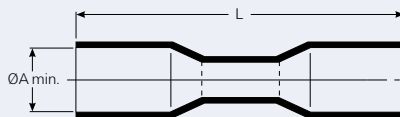
Available in:	Americas	Europe	Asia Pacific
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Specifications/approvals

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

Product dimensions (inches)

Butt splices



Part number	Butt splice dimensions			Conductor (AWG)	Wire dimensions	
	A min.	L nom.	Color		Insulation O.D. (max.)	Insulation O.D. (min.)
D-406-0001	.145	1.25	Red	22-18	.140	.055
D-406-0002	.180	1.25	Blue	16-14	.175	.080
D-406-0003	.250	1.50	Yellow	12-10	.245	

Fax-on-demand

US only (800) 260-9099

Outside US (650) 257-2301

Fax ID

5100

Description

Data sheet

Visit our website at www.tycoelectronics.com**Product selection process**

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

Wire size

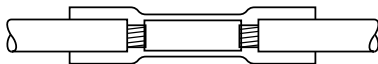
AWG	mm ²	Part number	Color
22-18	0.38-0.95	D-406-0001	Red
16-14	1.2-2.5	D-406-0002	Blue
12-10	3-6	D-406-0003	Yellow

Product characteristics (typical)

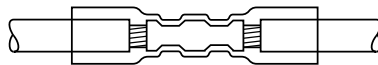
Operating temperature	-55°C to 125°C
Shrink ratio	Approximately 2:1
Physical properties	Cut-through resistance: 31 kg (70 lb) Wire pullout after crimping and recovery: red: 11.3 kg (25 lb); blue: 22.7 kg (50 lb); yellow: 27.2 kg (60 lb) Not flame-retardant No cracking after heat aging for 168 h at 160°C
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

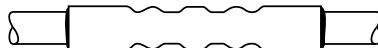
1. Select splice of appropriate size. Strip wire 7.5 mm (5/16 in). Insert into crimp barrel.



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



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

**Installation Requirements**

For proper installation of these devices, the correct crimp tool and a heating tool with a reflector attachment must be used. The Raychem AD-1522 crimp tool and HL 1802E heating tool are recommended.

You will find ordering information for these tools in the Application Equipment section (Section 10) of this catalog.

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