

DuraSeal Data Sheet















DuraSeal products insulate and protect electrical connections from mechanical abuse, wire pull-out, and abrasion while resisting water, salt, and other contaminants.

DuraSeal devices provide a tough, environmentally sealed wire connection. Their crimp barrel or terminal, encased in rugged, heat-shrinkable nylon tubing lined with a special hot-melt adhesive, resists damage from abrasions and cuts.

DuraSeal devices retain flexibility and impactresistance long after similar products have become brittle.

DuraSeal devices accommodate wire gauge sizes 22 to 10. They are color-coded for easy identification of gauge sizes, yet transparent for inspection of the finished splice.

Approvals and reference documents

Agency approvals

Reference documents

UL listed component, file E87681, butt splices and terminals except quick connect terminals; file E157833, quick connect terminals

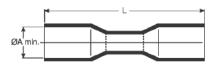
Raychem specification RB-107, DuraSeal crimp splices

Raychem specification RB-108, DuraSeal crimp terminals

DuraSeal selection guide (H54153)

DuraSeal installation guidelines (H54154)

Product Dimensions Butt Splices



Part No.	Butt Splice Dimensions				Wire Dimensions	
	A	L	Color	Conductor	Insulation	Insulation
	Min.	Nom.			O.D. (Max.)	O.D. (Min.)
D-406-0001	3.68 [.145]	31.75 [1.25]	Red	22-18	3.56 [.140]	1.40 [.055]
D-406-0002	4.57 [.180]	31.75 [1.25]	Blue	16–14	4.45 [.175]	2.03 [.080]
D-406-0003	6.35 [.250]	38.10 [1.50]	Yellow	12-10	6.22 [.245]	2.79 [.110]



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Trading in top quality

Product characteristics

	Property	Unit	Requirement	Method of test	
Physical	Dimensions Inches		None	See product dimensions.	
	Tensile strength Pounds		8 to 40 depend- ing on AWG	UL486C, IEC512-8	
	Property	Unit	Typical value	Method of test	
Electrical	Voltage drop Millivolts		Less than equal length of wire	MIL-S-81824, IEC512-2	
	Insulation resistance Megohms		10 ³ min.	MIL-STD-202 method 302	
	Dielectric withstand Kilovolts voltage		2.5	MIL-STD-202F method 301, IEC512-2	
	Property	Unit	Requirement	Method of test	
Chemical	Diesel fuel		Meet electrical test	ASTM D 3032, ESA-603D	
	Brake fluid		listed above after		
	Antifreeze 5% salt water Motor oil		 conditioning. 		
			_		
			_		
Environmental (Fluid resistance)	Humidity		Meet electrical test	MIL-STD-202F method 106, IEC68-2-30	
	Immersion		listed above after	MIL-STD-202F condition C, IEC68-2-14 test NC	
	Vibration		 conditioning. 	MIL-STD-202F method 201, IEC68-2-6	
	Bending		_	UL486C, IEC512-8	
	Thermal shock			MIL-STD-202F method 107, IEC68-2-14 test N	
	Heat aging (168 hr @ 85°C)			MIL-STD-202F, IEC68-2-2	
	Salt spray			MIL-STD-202F method 101, IEC68-2-11	
Operating conditions	Temperature rating		-55°C to 125°C	None	
	Minimum shrink temperature		180°C	None	
	Voltage rating		600 Volts max.	None	