

Installation Procedure for DuraSeal Splices and Terminals

1. Products:

DuraSeal Splice:

DS-XX-XX	D-406-XXXX
DS-MIXT-XX	

DuraSeal Terminal:

DB-X-XX	DP-X-XX	B-106-XX
DF-X-XX	DR-X-XX	DS-MIXT-XX

2. Application Equipment:

- Crimping tool: AD-1522
- Hot air gun:

Heat Gun	Reflector	Setting
HL1910E	PR-25 or PR-25D and HL1802E-ADAPT	6 on dial ⁽¹⁾
HL2010E		700°F on LCD ⁽¹⁾
CV-1981	PR-25D	7 ⁽¹⁾

3. Wire Preparation:

- Strip the stranded wire as shown.

		Product						
		Red		Blue		Yellow		
Configuration		Wire Range	Strip Length L (±0.5)	Wire Range	Strip Length L (±0.5)	Wire Range	Strip Length L (±0.5)	
Terminal		0.5 < Sc < 1.0	L _C = 6	1.5 < Sc < 2.5	L _C = 6	3.0 < Sc < 6.0	L _C = 6	see Fig. 1
Splice 1 to 1		0.5 < Sc < 1.0	L _C = 7.5	1.5 < Sc < 2.5	L _C = 7	3.0 < Sc < 6.0	L _C = 8	see Fig. 2
Splice 2 to 1	øA < øB	1.5< øA+øB <3.7 and 1.5< øC <3.7	L _A = 10 L _B = 7	2.0< øA+øB <4.3 and 2.0< øC <4.3	L _A = 10 L _B = 7	3.0< øA+øB <6.4 and 3.0< øC <6.4	L _A = 11 L _B = 8	see Fig. 3
		0.5< S _A +S _B < 1.0 and 0.5< S _C <1.0		1.5< S _A +S _B < 2.5 and 1.5< S _C <2.5		3.0< S _A +S _B < 6.0 and 3.0< S _C <6.0		
	øA = øB	1.5< øA+øB <3.7 and 1.5< øC <3.7	L _A = 10 L _B = 10	2.0< øA+øB <4.3 and 2.0< øC <4.3	L _A = 10 L _B = 10	3.0< øA+øB <6.4 and 3.0< øC <6.4	L _A = 11 L _B = 11	see Fig. 4
		0.5< S _A +S _B <1.0 and 0.5< S _C <1.0		1.5< S _A +S _B <2.5 and 1.5< S _C <2.5		3.0< S _A +S _B <6.0 and 3.0< S _C <6.0		

øA = diameter (mm) of the insulation of wire A.

Sc = cross section area (mm²) of wire C.

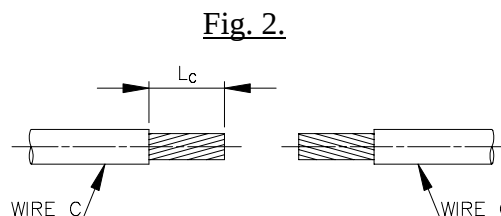
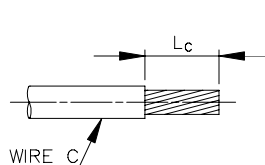


Fig. 3.

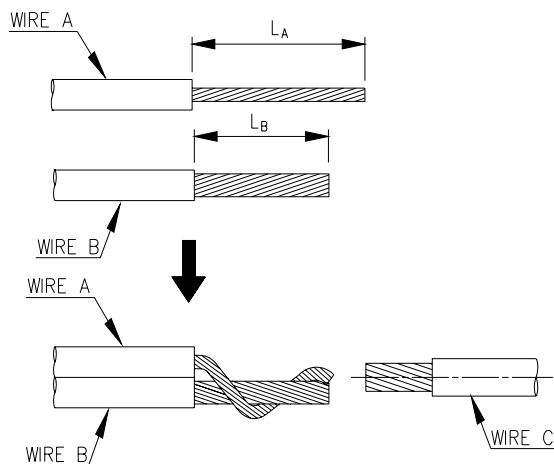
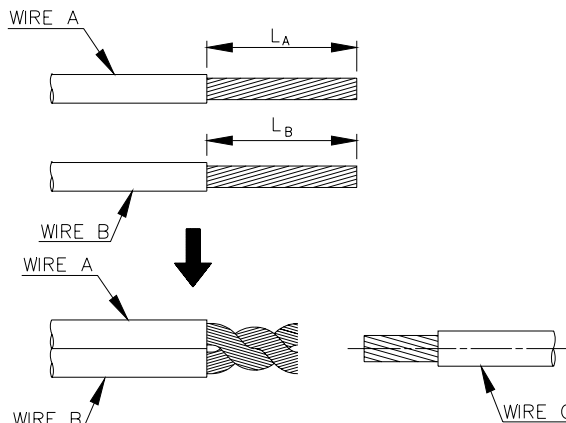


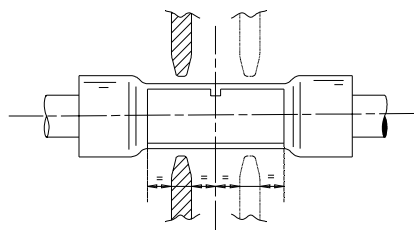
Fig. 4.



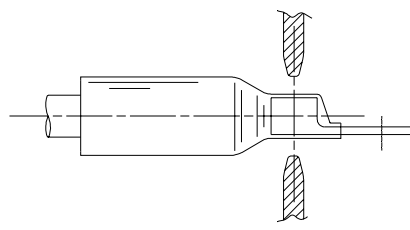
4. **Installation Procedure:**

- Select the correct DuraSeal crimp.
- Match its color with the color of the cavity of the crimp tool.
- Get the jaws in touch with the tubing.

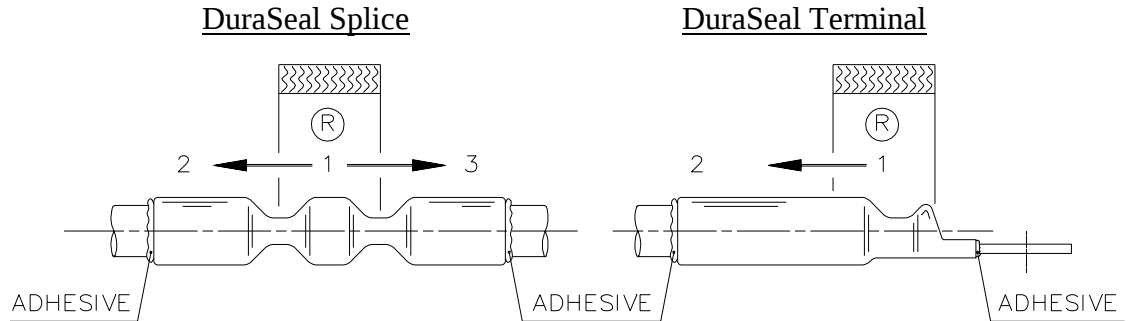
DuraSeal Splice



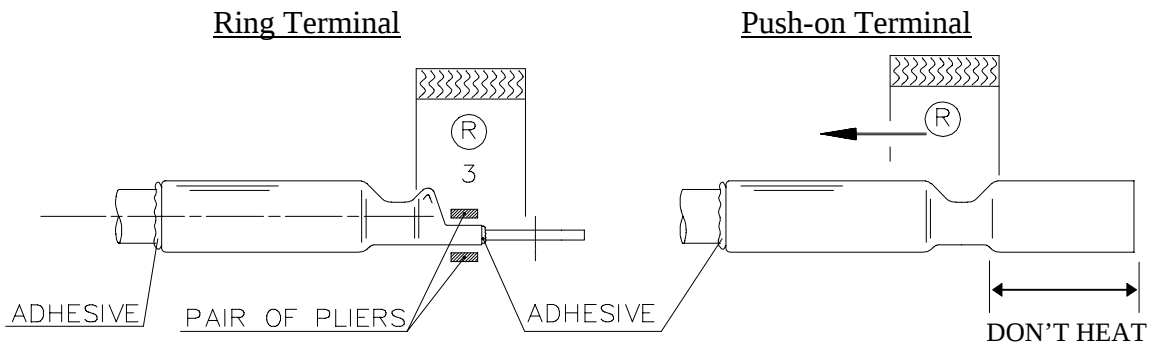
DuraSeal Terminal



- Insert the stripped wire until it butts inside the DuraSeal crimp.
- Crimp the wire in place.
- Repeat the operation symmetrically for the DuraSeal splice.
- Allow the hot air gun to warm up.
- Position the DuraSeal crimp in the reflector (R).
- Apply heat to shrink the sleeve until the adhesive melt and flow around the extremities of sleeve.



Note: For DuraSeal terminals, in order to achieve maximum sealing (except for DuraSeal push-on) heat the terminal at 3 and press the flat part with a pair of pliers until the assembly cools.



Note: Do not heat the terminal for the push-on terminal.
Do not bend the splice or the terminal assemblies until then have completely cooled.

5. Inspection of Assembly:

Check:

- Wire insulation is positioned inside the DuraSeal sleeve.
- Adhesive has flowed to form a fillet around the ends of the sleeve.
- Sleeve is completely shrunk on to the wire insulation.
- Sleeve is not cut, split or discolored.
- Wire insulation has no signs of mechanical damage or overheating.

¹ These values are for reference only and may change based on other variables (i.e. reflector type, sleeve's relative distance to the reflector, etc.)

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