

APPLICATION SPECIFICATION

1. SCOPE

1.1. Content

This specification covers the requirements for application of the CHAMP* single pair plug connector. These requirements are applicable to automatic machine crimping tools and either manual or automatic assembly tools. For specific wire and insulation ranges relative to the products covered in this specification, see Figure 5.

1.2. Design

This connector consists of a molded plastic housing with 2 contacts spliced to a pair of lead wires.

1.3. Reference Specification

For applicable performance requirements see AMP Specification 108-6068.

2. NOMENCLATURE

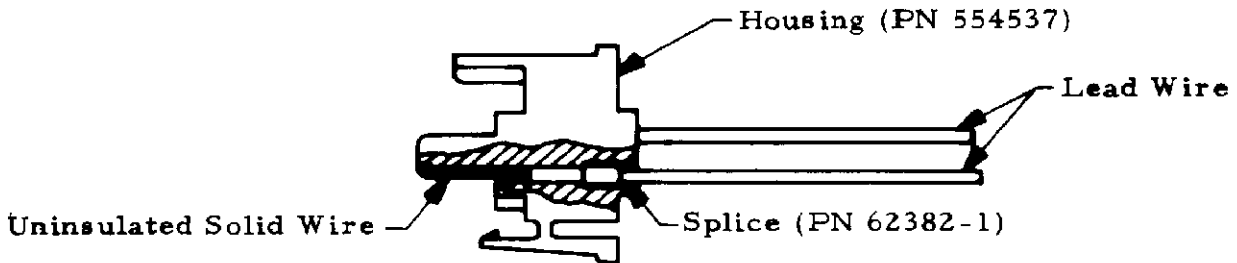


Figure 1

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					LOC B		
				SHEET 1 OF 3	TITLE CONNECTOR, SINGLE PAIR, CHAMP		
LTR	REVISION RECORD	APP	DATE				

3. CRIMP AND DIMENSIONAL REQUIREMENTS

3.1. Wire Preparation

A. Strip Length

Insulation shall be stripped as indicated in Figure 5.

B. Workmanship

Reasonable care shall be taken not to nick, scrape or cut any strands or the solid wire during the stripping operation.

3.2. Carrier Cutoff Tab and Burr

A. Cutoff Tab

Cutoff tab shall not exceed .010.

B. Burr

Burr on cutoff shall not exceed .005.

3.3. Splice Crimp

A. Crimp Dimensions

- (1) Crimp width, height and type shall be as shown in Figure 5.
- (2) Crimp height shall be measured at the location shown in Figure 2.

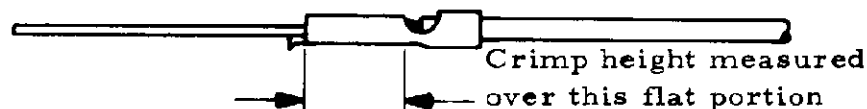


Figure 2

B. Tensile Strength

Crimp tensile strength shall be 5 pounds minimum to separate the lead wire from the uninsulated solid wire, see Figure 1.

C. Seams

Wire barrel and insulation barrel seams shall be completely closed and there shall be no evidence of loose wire strands or wire strands visible in the seam.

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D. Bellmouth

Bellmouth not permissible either end.

E. Conductor Location

- (1) Lead wire and uninsulated solid wire shall extend thru the wire barrel.
- (2) Both insulation and conductor shall be visible between the insulation barrel and wire barrel. Care shall be taken not to allow insulation to be crimped in the wire barrel.

3.4. Alignment

A. The uninsulated solid wire shall be bent as specified in Figure 3.

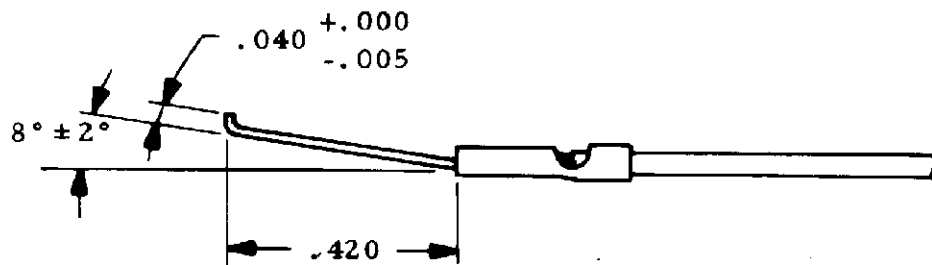


Figure 3

B. The side to side bending of the uninsulated solid wire shall not exceed the limits specified in Figure 4.

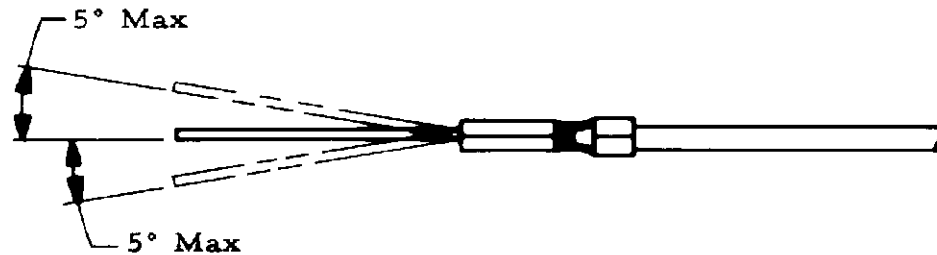


Figure 4

Wire		Insulation Diameter	Strip Length	Wire Barrel Crimp			Insulation Barrel Crimp		
Qty	Size			Width	Height	Type Crimper	Width	Height	Type Crimper
1	26	$\frac{.042}{.035}$.217	$\frac{.050}{.048}$	$\frac{.041}{.039}$	○	$\frac{.059}{.057}$	$\frac{.058}{.055}$	○
1	28	$\frac{.038}{.031}$.217						

Figure 5

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