

Aluminum Terminals

1. SCOPE

This specification defines the acceptable and the not acceptable conditions for aluminum terminals.

2. INSPECTION CRITERIA

Unless otherwise specified, Figures are shown at approximately 5X to 10X magnification. Scratches, gouges, blemishes, and handling marks shall be viewed using a microscope at 5X magnification. Proper lighting should be used to determine acceptance.

3. INSPECTION PROCEDURE





ACCEPTABLE

Scratches, gouges, and handling marks with no raised edge felt with a finger tip or fingernail. There will be visible blemishes due to matte finish. Acceptable only if there is no raised edge felt with the finger tip or fingernail.



ACCEPTABLE

Matte tin has a dull, non-reflective surface that varies in color from ashwhite to mid-gray. Lot-to-lot variations are acceptable and do not affect form, fit, or function.

Figure 2

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● ACCEPTABLE

Superficial staining or slight discoloration that results from rinsing or drying operation during the plating process.









The rack tips or electrodes that make contact with the terminals during the plating process will produce rack contact marks inside the terminal's crimp barrel. Rack contact marks do not affect the form, fit or function of the terminal and therefore are acceptable.







Matte tin is inherently soft and susceptible to handling damage that can cause superficial surface blemishes or burnishing. This condition is easily seen by the naked eye due to its non-reflective surface. Superficial surface marring and blemishes due not affect fit, form, or function and therefore are acceptable.







ACCEPTABLE

The terminal comes in contact with the tooling during the insertion of the perforated screen. Tool blemish marks not exceeding 1.5 mm (.06 in) width and having no raised edge felt with a finger tip or nail are acceptable.



Figure 6



ACCEPTABLE

The terminal comes in contact with the tooling during the insertion of the perforated screen. Tool blemish marks are acceptable in this area.

Figure 7





ACCEPTABLE

Tooling blemish mark acceptable on the spherical face of the terminal. Allowed to exceed 1 mm [.04 in] width as long as there is no raised edge filt with the finger tip or fingernail while sliding across it

Figure 8





Handling blemish not exhibiting visual depth and having no raised edge felt with a finger tip or fingernail while sliding across it.

Figure 9







Superficial surface burnishes and blemishes not exhibiting a raised edge felt with a fingertip or nail. The condition does not affect the form, fit or function of the terminal.



Figure 10





Figure 11

Figure 12



Surface blemishes from finger marks.





Any area of the terminal that has missing or insufficient, blistered, cracked or flaking plating.





Surface contamination or inclusion appearing structurally different and foreign in nature.





Figure 14

NOT ACCEPTABLE

Machining irregularities not

of the terminal.

conforming to the defined geometry

Any blemish with a raised edge or depth that can be felt by the fingertip or fingernail.



Figure 15



Scratches and gouges exhibiting visual depth and having a raised

NOT ACCEPTABLE

edge felt with a finger tip or fingernail while sliding across it.

Figure 16







Perforated insert is uniformly staked in position with no edges exposed beyond 0.076 mm [.003 in].

Figure 17





Perforated insert is exposed beyond 0.076 mm [.003 in].

Figure 18