

All-weather Heat-sealable NiAc Terminals and Splices

Perma-Seal NiAc Terminals and splices provide a rugged, environmentally-sealed connection for wire sizes 22-10 AWG that will insulate, seal, and protect joints from physical abuse and abrasion, water, salt and other corrosive compounds.

Features

- Heat shrinkable
- Long-lasting, moisture-proof connections
- Withstands water, salt, condensation, corrosion and heat
- Heat stable. Splices remain supple and impact resistant
- Tough and durable. Resists abrasions and cutting
- Smaller and lighter than most comparable wire splices
- Provides a reliable, impermeable seal on 1:1, 2:1, or 2:2 splices
- Easy to install using standard tools

Butt Splice



Ring Terminal



Spade Terminal



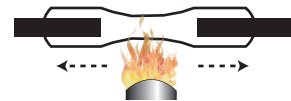
Installation



First select the appropriate size splice for the wire gauge. Strip the wire 0.3" (7.6mm) from the end and insert into the crimp barrel. Make sure it is properly seated.



Then, make the crimp connection using a tool designed for insulated splices.



Apply heat directly to the splice, working from the center out to the edges, using a hot air gun or other heat source, until tubing recovers and the adhesive flows. Allow to cool before inspecting splice and checking the integrity.

Product Characteristics

Properly installed, Perma-Seal splices and terminals exceed all pertinent UL, CSA, and MIL Specification requirements. Typical properties of the installed splice and for the NiAc insulation alone is shown below.

Typical Properties of Installed Connectors	
Temperature rating	-55°C to 125°C
Dielectric strength	7.5kv
Voltage drop	Less than equal length of wire
Insulation resistance	10 ⁶ Megohms
Shrink temperature	90°C
Tensile (pull test) value	Greater than Mil-T-7928 and UL No. 486
Typical Properties of NiAc Tubing	
Tensile strength	6000 psi minimum
Ultimate elongation	175%
Longitudinal change	+0-10%
Specific gravity	1.1 maximum
Heat shock (4 hours at 225°C)	No dripping, flowing, or cracking
After heat aging 168 hours at 150°C followed by test	
Tensile strength	70% of original
Ultimate elongation	100% minimum
Dielectric strength	500volts/mil minimum
Low temperature flexibility: 4 hours at -40°C	No cracking

Hot melt adhesive liner for reliable impermeable moisture barrier.

Funnel entry opening to facilitate quick and easy wire insertion.

The high-strength seamless barrels will not open under stress or wire pull and can be crimped from any side.

Transparent sleeve for visual confirmation of proper wire insertion and crimp locations.

Color-coded tubing for easy, accurate selection of the correct part size.

Tough, abrasion resistant, heat-shrinkable NiAc sleeve for the most rugged environments and demanding applications.

