# TI2005-078 Cobra NATO Plug NSN: 6130-01-523-1270

The Tesla<sup>™</sup> Cobra NATO Plug is constructed from a rugged combination of advanced composite materials and corrosion-resistant alloys. The result is a weatherproof NATO plug that will withstand battlefield conditions and other extreme environments. Along with highly conductive contact materials, the virtually indestructible design and fast "in-the-field" component replacement make it the last NATO plug you will ever need.

## **Features:**

- Rated to 3000 peak amps
- Clamped cable connections
- UV, fuel, fungus, oil, and water resistant
- Tested to withstand 50 G of shock
- Exceeds MIL-STD-810
- Easy component replacement
- Manufactured by Tesla<sup>™</sup>
- 2 Year Warranty



Power Anytime, Anywhere

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## **Features and Benefits**

#### Weatherproof Construction

Through a series of strategically placed seals and bushings, the Cobra NATO Plug is hermetically sealed to lock out rain, snow, sand and other harmful debris.

#### **Internal Cable Connections**

Unlike plugs with cables that are molded directly to the housing, easily accessible lugs allow for direct termination inside of the plug. Additionally, compression grommets and bushings provide strain relief. This unique combination of protection eliminates dangerous shocks from exposed wiring due to cable stretching and splicing.

#### Rugged, Durable, Reliable

Made from virtually indestructible composite materials, the plug housing won't crack, melt, blister, dry-rot or disintegrate. This, in conjunction with corrosion resistant conductors, this insures that the Tesla<sup>™</sup> NATO Plug will still be in the field long after other plugs have failed.

#### **Replaceable Contacts**

Manufactured from highly conductive alloys, the negative contact is specially tapered and has memory to maximize contact surface area and to minimize deformity over time. Once installed, contacts are hermetically sealed within the plug.

#### Insertion/Extraction Tools

Contacts can be easily replaced "in-the-field" without discarding the entire plug using the Insertion/ Extraction Tools. The tools and contact replacements can be ordered through Tesla™ Customer Service at (302) 324-8910.



Figure 1: Hermetically sealed & easily replaceable contacts



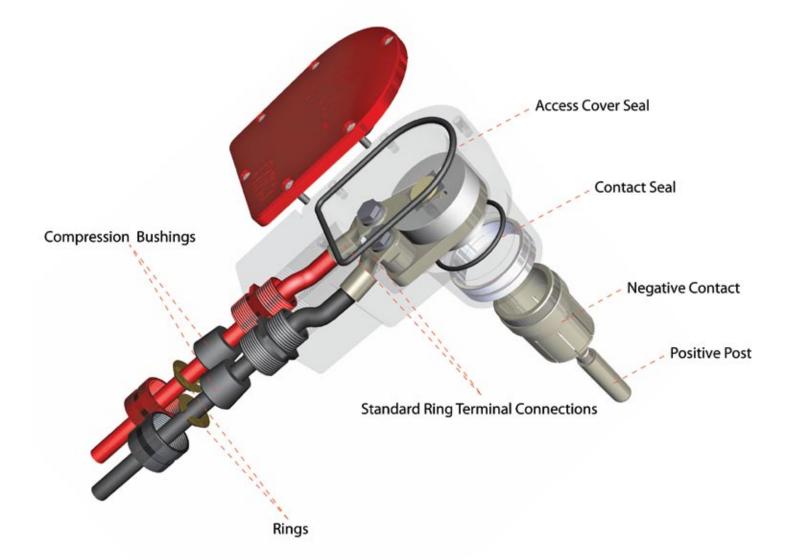
A. Negative Contact: TI2005-121 NSN: 5999-01-525-0582 B. Positive Post: TI2005-117 NSN: 5935-01-523-8914



C. Negative Insertion/Extraction Tool: TI2005-126 NSN: 5120-01-523-8761

D. Positive Insertion/Extraction Tool: TI27000-082 NSN: 5120-01-527-7729

## **Components - Exploded View**











### **Contact Replacement**

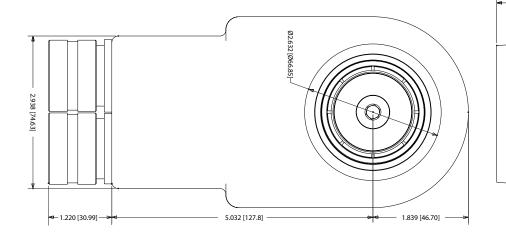
**Step 1:** To remove the positive post, simply insert the Positive Contact Tool and turn counterclockwise.

**Figure 2:** To install a new positive post, use the same tool and screw the contact in clockwise.

**Figure 3:** To remove the negative contact, simply insert the Negative Contact Tool and turn counter-clockwise.

**Figure 4:** To install a new negative contact, use the same tool and screw the contact in clockwise.

# **Dimensions and Technical Specifications**

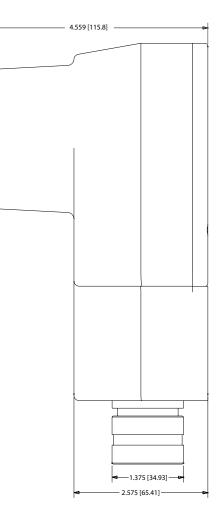


\* All dimensions are in inches [millimeters]

### **Technical Specifications:**

2
3/8-24
3000 A
-65°C - 125°C (-85°F - 257°F)
-40°C - 110°C (-40°F - 230°F)
0.355" (9 mm)
IP28C (tested to 20 m)
1500 A
18 - 32 Vdc
3000 A
> 6000 Vdc for 1 min. across contacts
4 GΩ w/1 kV across contacts
< 50 μΩ @ 25°C
50 G
MIL-STD-810
45 lbs (20.5 kg)
4.13 lbs (1.87 kg)
2 years (3 years optional)

\*Acceptance of these gauges is dependant on insulation and stranding





#### **Field Tested**

To prove its toughness and dependability, the Cobra NATO Plug was subjected to the harshest abuse. The photo above shows the NATO plug can withstand the weight of a 70 ton M1 Abrams tank. Even after this severe punishment, the plug was still fully functional.