**MATERIALS & SPECIFICATIONS**

**HOUSING:**  
Aluminum 6061-T6, Nickel plate  
Per AMS-C-26074

**INSULATOR:**  
Liquid crystal polymer (LCP) per  
ASTM D5138

**CONTACT:**  
Copper alloy per MIL-DTL-32139,  
Gold plated per ASTM B488,  
(Hard Gold) type II code C’ class  
1.27

**WIRE:**  
NEMA HP3 Type ET, color coded  
IAW MIL-STD-681 system 1, using  
Ten solid repeating colors

**HARDWARE:**  
303 Stainless steel per ASTM 582

**CURRENT RATING:**  
1 Amp max per MIL-DTL-32139

**CONTACT RESISTANCE:**  
71 milliohm max (71mV drop max)  
@ 1.0 Amps per MIL-DTL-32139

**PERFORMANCE:**  
Product family tested to and  
Passed the performance  
Specifications of Table VIII of  
MIL-DTL-32139

**SOCKET #** | **COLOR**  
---|---  
1, 11, 21, 31, 41, 51, 61, 71, 81 | BLACK  
2, 12, 22, 32, 42, 52, 62, 72, 82 | BROWN  
3, 13, 23, 33, 43, 53, 63, 73, 83 | RED  
4, 14, 24, 34, 44, 54, 64, 74, 84 | ORANGE  
5, 15, 25, 35, 45, 55, 65, 75, 85 | YELLOW  
6, 16, 26, 36, 46, 56, 66, 76 | GREEN  
7, 17, 27, 37, 47, 57, 67, 77 | BLUE  
8, 18, 28, 38, 48, 58, 68, 78 | VIOLET  
9, 19, 29, 39, 49, 59, 69, 79 | GRAY  
10, 20, 30, 40, 50, 60, 70, 80 | WHITE

**CONTACT RESISTANCE**  
71 milliohm max (71mV drop max)  
@ 1.0 Amps per MIL-DTL-32139

**PERFORMANCE**  
Product family tested to and  
Passed the performance  
Specifications of Table VIII of  
MIL-DTL-32139

**DIMENSIONS**

1. **Socket #**
   - 1, 11, 21, 31, 41, 51, 61, 71, 81: BLACK
   - 2, 12, 22, 32, 42, 52, 62, 72, 82: BROWN
   - 3, 13, 23, 33, 43, 53, 63, 73, 83: RED
   - 4, 14, 24, 34, 44, 54, 64, 74, 84: ORANGE
   - 5, 15, 25, 35, 45, 55, 65, 75, 85: YELLOW
   - 6, 16, 26, 36, 46, 56, 66, 76: GREEN
   - 7, 17, 27, 37, 47, 57, 67, 77: BLUE
   - 8, 18, 28, 38, 48, 58, 68, 78: VIOLET
   - 9, 19, 29, 39, 49, 59, 69, 79: GRAY
   - 10, 20, 30, 40, 50, 60, 70, 80: WHITE

2. **Housing**
   - Aluminum 6061-T6, Nickel plate  
   - Per AMS-C-26074

3. **Insulator**
   - Liquid crystal polymer (LCP) per  
   - ASTM D5138

4. **Contact**
   - Copper alloy per MIL-DTL-32139,  
   - Gold plated per ASTM B488,  
   - (Hard Gold) type II code C’ class  
   - 1.27

5. **Wire**
   - NEMA HP3 Type ET, color coded  
   - IAW MIL-STD-681 system 1, using  
   - Ten solid repeating colors

6. **Hardware**
   - 303 Stainless steel per ASTM 582

7. **Current Rating**
   - 1 Amp max per MIL-DTL-32139

8. **Contact Resistance**
   - 71 milliohm max (71mV drop max)  
   - @ 1.0 Amps per MIL-DTL-32139

9. **Performance**
   - Product family tested to and  
   - Passed the performance  
   - Specifications of Table VIII of  
   - MIL-DTL-32139

**Dimensions**

- 30 AWG (7-38)
- PTFE, color coded

**Contact Information**

1. **Contact:**  
   - Nema HP3 Type ET, color coded  
   - IAW MIL-STD-681 System 1, using  
   - Ten solid repeating colors

2. **Hardware:**  
   - 303 Stainless steel per ASTM 582

3. **Current Rating:**  
   - 1 Amp max per MIL-DTL-32139

4. **Contact Resistance:**  
   - 71 milliohm max (71mV drop max)  
   - @ 1.0 Amps per MIL-DTL-32139

5. **Performance:**  
   - Product family tested to and  
   - Passed the performance  
   - Specifications of Table VIII of  
   - MIL-DTL-32139

**SECTION A-A**

- View less hardware

**Notes:**

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- Sheet 2 of 2 is a  
  Mfg loading diagram

- CAGE CODE: 61873

- DWG NO:  
  A29000-185

- SHEET 1 OF 2

- SCALE: 3:1

- DATE: 07-27-11

- APP: TLM