

# MATERIALS & SPECIFICATIONS

## HOUSING:

ALUMINUM 6061-T6, NICKEL PLATE  
PER SAE-AMS-2404

## 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:

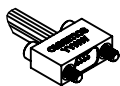
1 AMP MAX PER MIL-DTL-32139

## CONTACT RESISTANCE:

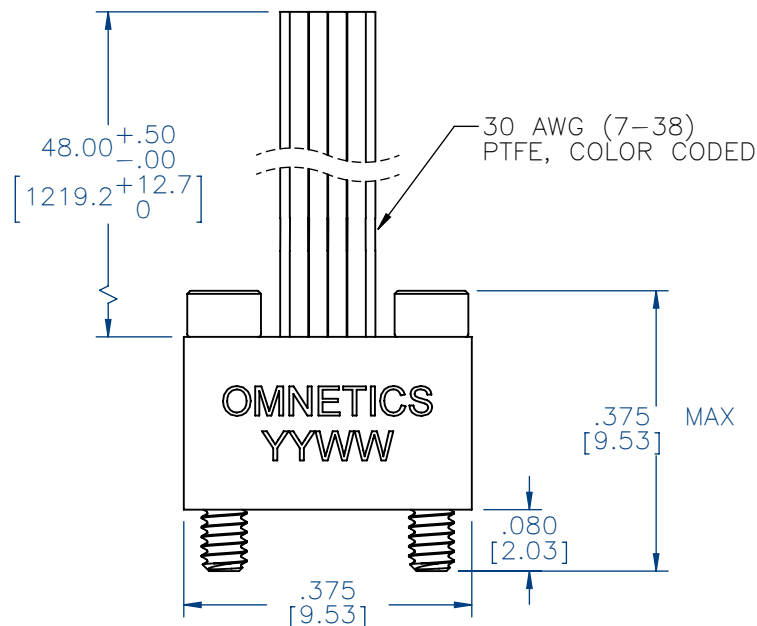
71 MILLIOHM MAX (71mV DROP MAX)  
@ 1.0 AMPS PER MIL-DTL-32139

## PERFORMANCE:

PRODUCT FAMILY TESTED TO AND  
PASSED THE PERFORMANCE  
SPECIFICATIONS OF TABLE VIII OF  
MIL-DTL-32139



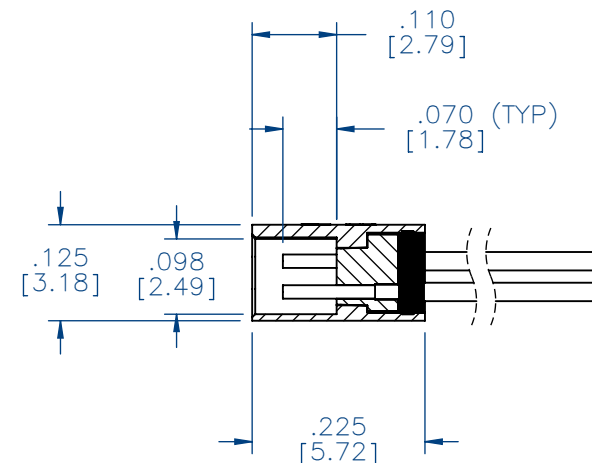
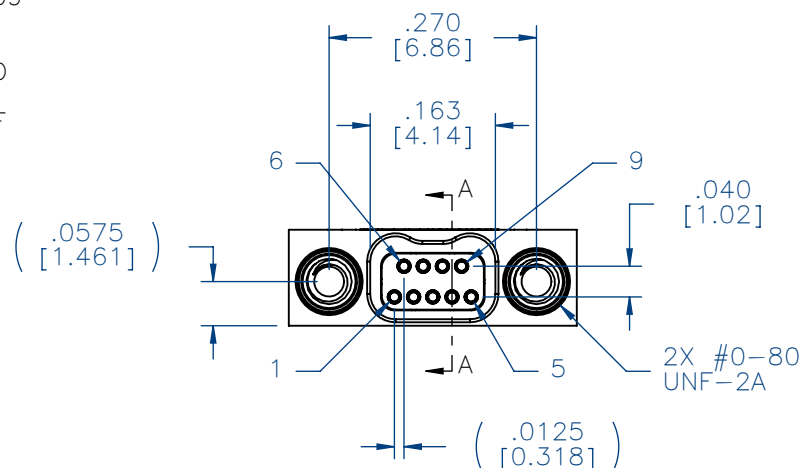
ACTUAL SIZE  
EXCLUDING WIRE LENGTH



| SOCKET # | COLOR  |
|----------|--------|
| 1        | BLACK  |
| 2        | BROWN  |
| 3        | RED    |
| 4        | ORANGE |
| 5        | YELLOW |
| 6        | GREEN  |
| 7        | BLUE   |
| 8        | VIOLET |
| 9        | GRAY   |

INTERNAL USE ONLY

SHEET 2 OF 2 IS A  
MFG LOADING DIAGRAM



SECTION A-A  
VIEW LESS HARDWARE

## NOTE:

DIMENSIONS IN [ ] ARE IN  
MILLIMETERS UNLESS  
OTHERWISE NOTED AND ARE  
FOR REFERENCE ONLY

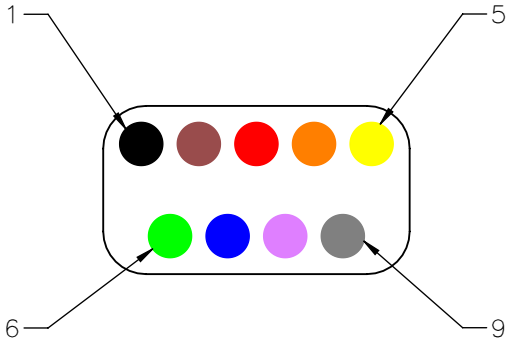
| MNSO | THIRD ANGLE            |              |
|------|------------------------|--------------|
|      | -TOLERANCES-           |              |
| SLDW | UNLESS OTHERWISE NOTED |              |
|      | DIMENSIONS IN INCHES   |              |
|      | 2                      | PL DEC±.01   |
|      | 3                      | PL DEC±.005  |
|      | 4                      | PL DEC±.0005 |
|      | ANGLES ± 1°            |              |

|                                                                                                                                                                                                                                                                    |          |                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|--|
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| DFTM. TLM                                                                                                                                                                                                                                                          | DATE     | TITLE:             |  |
| CHK'D.                                                                                                                                                                                                                                                             | 04-13-13 | (9) SOCKET FEMALE  |  |
| APP'D.                                                                                                                                                                                                                                                             | DATE     | Bi-Lobe® CONNECTOR |  |

**OMNETICS**  
CONNECTOR CORPORATION  
7260 COMMERCE CIRCLE EAST  
MINNEAPOLIS, MN 55432  
WWW.OMNETICS.COM

|              |            |
|--------------|------------|
| CAGE CODE    | 61873      |
| DWG NO.      | A29048-109 |
| SHEET 1 OF 2 | REV A      |
| SCALE: 4:1   |            |

|          |            |     |       |          |     |
|----------|------------|-----|-------|----------|-----|
| PART NO. | A29048-109 | REV | ECO   | DATE     | APP |
|          |            | A   | 99441 | 04-13-13 | TLM |



| SOCKET # | COLOR  |
|----------|--------|
| 1        | BLACK  |
| 2        | BROWN  |
| 3        | RED    |
| 4        | ORANGE |
| 5        | YELLOW |
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| 7        | BLUE   |
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|              |                                                                |                                                                                                                                                                                                                                                                    |               |                                                                                                                    |                           |       |
|--------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------|---------------------------|-------|
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|              | —TOLERANCES—<br>UNLESS OTHERWISE NOTED                         |                                                                                                                                                                                                                                                                    |               |                                                                                                                    | DWG NO. <b>A29048-109</b> |       |
|              | DIMENSIONS IN INCHES                                           | DFTM. TLM                                                                                                                                                                                                                                                          | DATE 04-13-13 | TITLE: (9) SOCKET FEMALE                                                                                           | SHEET 2 OF 2              | REV A |
|              | 2 PL DEC±.01<br>3 PL DEC±.005<br>4 PL DEC±.0005<br>ANGLES ± 1° | CHK'D.                                                                                                                                                                                                                                                             | DATE          | Bi-Lobe® CONNECTOR                                                                                                 |                           |       |
|              |                                                                | APP'D.                                                                                                                                                                                                                                                             | DATE          |                                                                                                                    | SCALE: 12:1               |       |
|              |                                                                |                                                                                                                                                                                                                                                                    |               | <b>OMNETICS</b><br>CONNECTOR CORPORATION<br>7260 COMMERCE CIRCLE EAST<br>MINNEAPOLIS, MN 55432<br>WWW.OMNETICS.COM |                           |       |