

# MATERIALS & SPECIFICATIONS

## HOUSING:

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

## INSULATOR:

LIQUID CRYSTAL POLYMER (LCP) PER  
ASTM D5138

## CONTACT:

BERYLLIUM COPPER PER ASTM B194,  
C17200, 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

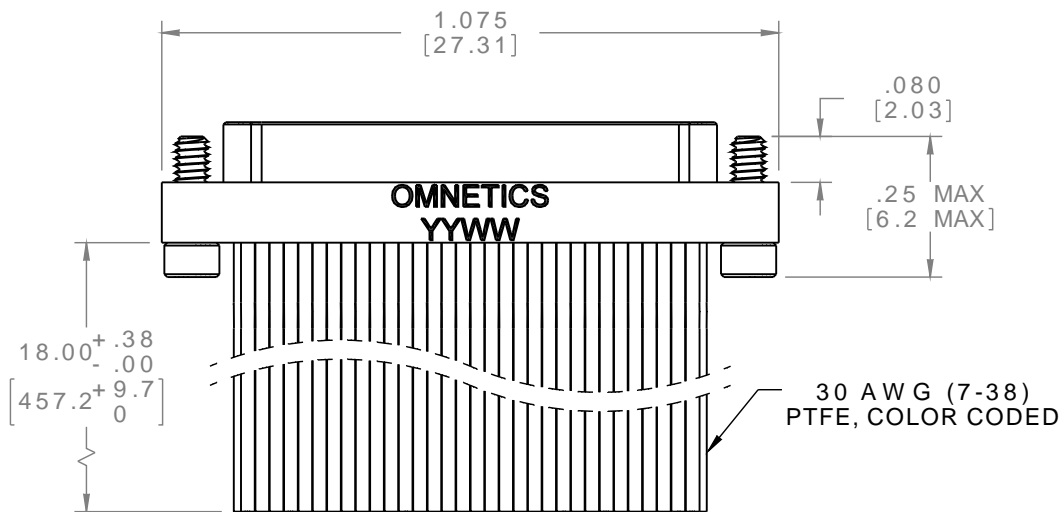
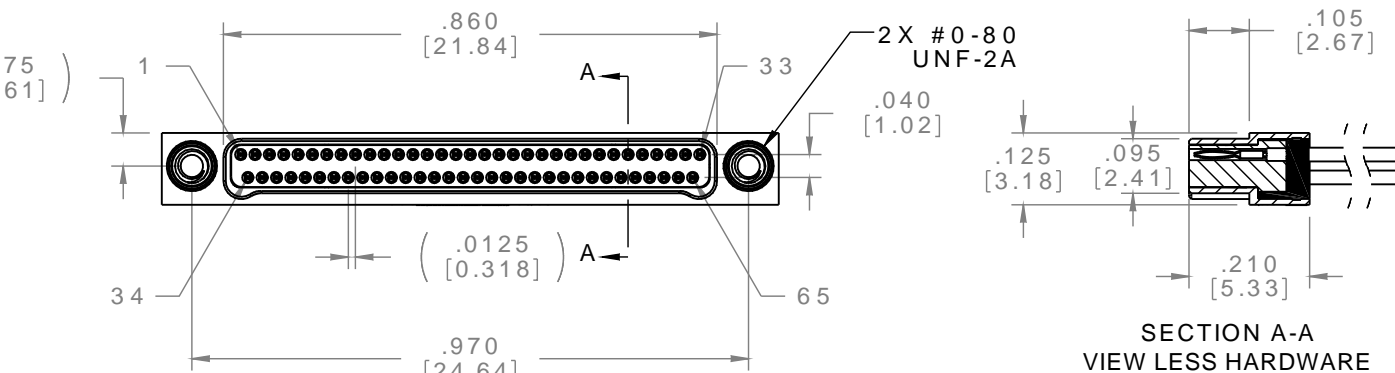
## CONTACT RESISTANCE:

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

| PIN #                     | COLOR  |
|---------------------------|--------|
| 1, 11, 21, 31, 41, 51, 61 | BLACK  |
| 2, 12, 22, 32, 42, 52, 62 | BROWN  |
| 3, 13, 23, 33, 43, 53, 63 | RED    |
| 4, 14, 24, 34, 44, 54, 64 | ORANGE |
| 5, 15, 25, 35, 45, 55, 65 | YELLOW |
| 6, 16, 26, 36, 46, 56     | GREEN  |
| 7, 17, 27, 37, 47, 57     | BLUE   |
| 8, 18, 28, 38, 48, 58     | VIOLET |
| 9, 19, 29, 39, 49, 59     | GRAY   |
| 10, 20, 30, 40, 50, 60    | WHITE  |



ACTUAL SIZE  
EXCLUDING WIRE LENGTH

INTERNAL USE ONLY

SHEET 2 OF 2 IS A  
MFG LOADING DIAGRAM

| THIRD ANGLE            | TOLERANCES-          |
|------------------------|----------------------|
| 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. AAS | DATE |
| CHK'D.    | DATE |
| APP'D.    | DATE |

TITLE:  
(65) PIN MALE  
Bi-Lobe® CONNECTOR

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

|                 |              |
|-----------------|--------------|
| CAGE CODE 61873 | DWG NO.      |
| A28000-065      | SHEET 1 OF 2 |
| SCALE: 3:1      | REV G        |