NOTES: UNLESS OTHERWISE SPECIFIED

1. CONNECTOR NAMES AND PART NUMBERS:
   NAME: PIN CONNECTOR HOUSING, M-QUAD BLIND MATE
   ACCOMMODATES SIZE 6.4 MM DIAMETER PINS & 4 GAUGE BARRELS
   PART NUMBER: 6316-06648-01100

   NAME: SOCKET CONNECTOR HOUSING, M-QUAD BLIND MATE
   ACCOMMODATES SIZE 6.4 MM DIAMETER PINS & 4 GAUGE BARRELS
   PART NUMBER: 6315-06649-01100

   SEE SHEET 2 FOR CORRESPONDING CONTACT PART NUMBERS

2. MATERIALS:
   INSULATORS: THERMOPLASTIC, UL 94 V-0
   SOCKET CONTACTS: COPPER ALLOY
   PIN CONTACTS: COPPER ALLOY

3. FINISHES:
   SOCKET CONTACTS: SILVER PLATING OVER NICKEL UNDER PLATING
   SOCKET BODIES: SILVER PLATING OVER NICKEL UNDER PLATING
   PIN CONTACTS: SILVER PLATING OVER NICKEL UNDER PLATING

4. REFERENCE DIMENSIONS IN PARENTHESIS (XXX) ARE WITHOUT TOLERANCE AND USED FOR INFORMATION ONLY.

5. OPERATIONAL CONDITIONS
   * CONNECTOR GUIDEPOST GATHERING OF 2.5 MM (.10 INCH) RADIAL.
   * RELIABLE MATE AT 2 MM (.08 INCH) OFFSET (SEE SHEET 5).
   * PIN OR SOCKET CONNECTOR FLOAT OF 1.3 MM (.05 INCH) OFFSET FROM CENTER POSITION, WHEN MOUNTED USING THE SHOULDER SCREW SHOWN ON SHEET 5.
   * TYPICAL CONNECTOR MATING FORCES OF 22N (5 LBF) WHEN LOADED WITH CONTACTS IN ALL FOUR POSITIONS.
- WIRE CRIMP TERMINATION INFORMATION -

CRIMP WIRE TERMINATIONS SHOWN

CONNECTOR POPULATED WITH 4 AWG CRIMP CONTACTS

- M5 THREADED TERMINATION INFORMATION -

M5x0.8 THREAD

7.9[.31]
CONTACT CY
TO ISOLATION BARRIER

8.9[.35]
ANTI-ROTATION 9 MM WRENCH FLATS

MIRROR PIN IMAGE
ALLOWING 2.5 MM [.10"
SIDE-TO-SIDE FREEDOM OF FLOAT

OPTIONAL SHRINK TUBING
INSTALLED OVER CRIMP

SLIDE CONTACT WITH
CRIMPED ON WIRE
INTO CONNECTOR CAVITY
UNTIL LOCKED IN PLACE

CONNECTOR POPULATED
WITH 8 AWG CRIMP CONTACTS
- PANEL MOUNTED PIN CONNECTOR -

SHOULDER SCREW PROVIDED SEPARATELY – SEE SHEET 2

MS clinch fastener shown obtained separately

3.2 MM THICK PANEL SHOWN

BUS MOUNTED PIN CONNECTOR

19.4 [.77] FLANGE HEIGHT ABOVE MOUNTING SURFACE

3.2 MM THICK COPPER BUS CONDUCTOR SHOWN

BRASS MS HEX HEAD SCREWS OVER BRASS 5 MM WASHERS SHOWN

BUS MOUNTED SOCKET CONNECTOR

17.6 [.69] FLANGE HEIGHT ABOVE MOUNTING SURFACE

3.2 MM THICK COPPER BUS CONDUCTOR SHOWN

BRASS MS HEX HEAD SCREWS OVER BRASS 5 MM WASHERS SHOWN

2 MM OFFSET MATED CONDITION

FULLY MATED CONDITION

25.5 (1.00) MINIMUM SPACING BETWEEN FLANGE BASE

27.5 (1.08) SPACING AT 2 MM BETWEEN FLANGE BASE

- BUS MOUNTED SOCKET CONNECTOR -

3.2 MM THICK COPPER BUS CONDUCTOR SHOWN

BRASS MS HEX HEAD SCREWS OVER BRASS 5 MM WASHERS SHOWN

17.6 [.69] FLANGE HEIGHT ABOVE MOUNTING SURFACE

2 MM OFFSET MATED CONDITION

FULLY MATED CONDITION

25.5 (1.00) MINIMUM SPACING BETWEEN FLANGE BASE

27.5 (1.08) SPACING AT 2 MM BETWEEN FLANGE BASE

- BUS MOUNTED PIN CONNECTOR -

3.2 MM THICK COPPER BUS CONDUCTOR SHOWN

SHOULDER SCREW PROVIDED SEPARATELY – SEE SHEET 2

MS clinch fastener shown obtained separately

19.4 [.77] FLANGE HEIGHT ABOVE MOUNTING SURFACE

3.2 MM THICK PANEL SHOWN
- 4 AWG WIRE & TWO-HOLE FUSION LUG TERMINATION -

**NOTE:**
Dimensions reflect standard two-hole straight fusion-lugs

**FUSION LUG**
38.1[1.50]

**M6 CLEARANCE SHOWN**
Ø6.5[26]

**WIRE LENGTH TO BE SPECIFIED**

**SURFACE FINISH:** N/A

**SHEET 6 OF 6**