

NOTES:

1. MATERIALS AND FINISHES:
BODIES, HEX-NUT & BACK NUT = BRASS, NICKEL PLATED
INSULATOR = PTFE
CONTACT = BeCu, GOLD PLATED
FERRULE = ANNEALED COPPER, NICKEL PLATED OVER COPPER
LOCKWASHER = PHOSPHOR BRONZE, NICKEL PLATED
O-RING = SILICONE RUBBER, 70 DURO

2. ELECTRICAL:
A. IMPEDANCE: 50 OHM
B. FREQUENCY RANGE: DC - 2 GHz
C. DIELECTRIC WITHSTANDING VOLTAGE: 250 VRMS, MIN.

3. MECHANICAL:
A. DURABILITY: 500 CYCLES MIN.
B. TEMPERATURE RANGE: -65° C TO +165° C
C. IP-68 : MUST WITHSTAND 30 PSI UNDER WATER FOR 60 SECONDS WITHOUT ANY SIGNS OF LEAKAGE

4. PACKAGING:
A. QUANTITY: SINGLE PACK
B. MARKING: BAG TO BE MARKED
"AMPHENOL, 903-841J-51S, AND DATE CODE"

5. SHOWS CABLE ENTRY DIMENSIONS.

6. AFTER ASSEMBLY REF LENGTH OF CONNECTOR IS: 20.41 MM (.803 INCHES)

THIRD ANGLE PROJ.

RECOMMENDED MOUNTING HOLE DIMENSIONS

SCALE 5.000

RECOMMENDED CABLE STRIPPING DIMENSIONS

SCALE 5.000

SCALE 4.000

The diagram shows an exploded view of an SMB connector assembly. Key components and dimensions include:

- VIEW WITHOUT HEX NUT AND LOCK WASHER:** Shows the front view of the connector body with a diameter of 4.32 [0.170] and a 'D' FLAT.
- INTERFACE PER MIL-STD-348 SERIES: SMB, JACK**
- LOCKWASHER:** Dimensions include 17.60 [0.693] REF, 11.18 [0.440] REF, and 2.05 [0.081] REF.
- 6.35 HEX (.250):** Dimension for the hex nut.
- Ø 8.80 [0.346] REF:** Dimension for the main body diameter.
- Ø 0.38 [0.02] REF:** Dimension for the bullet contact.
- Ø 0.46 [0.02] REF:** Dimension for the insulator disc.
- Ø 0.97 [0.038] REF:** Dimension for the body rear.
- Ø 2.54 [0.100] REF:** Dimension for the ferrule.
- BACK NUT:** The rear nut component.
- O-RING:** Located between the lockwasher and the body.
- #10-32 UNEF-2A THREAD:** Thread specification for the hex nut.
- 5.56 [0.219] REF:** Dimension for the body rear.

CONFIGURATION CONTROL:
NO CHANGES PERMITTED TO DRAWING WITHOUT
HARRIS HPQP APPROVAL

CUSTOMER OUTLINE DRAWING

ALL OTHER SHEETS ARE FOR INTERNAL USE ONLY

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN METRIC AND TOLERANCES ARE:
0.5 - 6mm ±0.1mm
6 - 30mm ±0.2mm
30 - 120mm ±0.3mm
ANGLES ±1°

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MATERIAL
SEE NOTES

REFERENCE
EAR# 3485 AND 615X-1017-300

CONFIGURATION LEVEL:

FINISH

DRAWN
BALAJI M

ENGINEER
BALAJI M

APPROVED
K. CAPOZZI

CAD FILE
Root Folder/SMB/903-841J-51S

DATE
08-Apr-09

DATE
08-Apr-09

DATE
01-Jul-09

TITLE
SMB, JACK
BHD IP-68, 50 OHM
FOR GORE CXN3404

SCALE: 6.0:1.0

DWG SIZE
B

SHEET 2 OF 2

CODE ID
74868

REV
C

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DRAWING NO.903-841J-51S

ITEM NO.903-841J-51S

PART NO.903-841J-51S