



**THE DATASHEET OF
M80-4D12642S1**



Customer Information Sheet

DRAWING No.: M80-4D1XXXXSI SHEET 2 OF 2

IF IN DOUBT - ASK

©

NOT TO SCALE

SPECIFICATIONS:

MATERIAL:
 MOULDING = GLASS-FILLED PPS, UL94V-0, BLACK
 CONTACT CLIP = BERYLLIUM COPPER
 CONTACT SHELL = BRASS
 BACKSHELL = ALUMINIUM ALLOY
 BANDIT TIE & J/SCREW = STAINLESS STEEL

FINISH:
 CONTACTS
 05 = 0.3µm GOLD CLIP, 0.25-0.3µm GOLD SHELL
 42 = 0.3µm GOLD CLIP, 3.5-5.0µm 100% TIN SHELL OVER NICKEL
 BACKSHELL = NICKEL

ELECTRICAL:
 RF ATTENUATION = 10kHz TO 400MHz @ >30dBs
 IN GENERAL ACCORDANCE WITH MIL STD 1377 (1971)
 CURRENT RATING AT 25°C = 3.0A MAX
 CURRENT RATING AT 85°C = 2.2A MAX
 WORKING VOLTAGE = 120V AC/DC
 VOLTAGE PROOF = 360V AC/DC
 CONTACT RESISTANCE = 25 mΩ MAX
 INSULATION RESISTANCE = 100 MΩ MIN

MECHANICAL:
 INSERTION FORCE (∅0.5mm GAUGE) = 2.8N MAX
 WITHDRAWAL FORCE (∅0.5mm GAUGE) = 0.2N MIN

ENVIRONMENTAL:
 TEMPERATURE RANGE = -55°C TO +121°C

PACKING:
 SEE NOTES

FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE) AND C042XX (LATEST ISSUE)

NOTES:

- CONNECTOR IS SUPPLIED AS A KIT OF PARTS IN A BAG. BAGS WILL BE BULK PACKED INTO BOXES.
- FOR EXTRA CONTACTS, USE PART No.'s.
 M80-0110001 FOR M80-4D1XX42SI
 M80-0110005 FOR M80-4D1XX05SI
- FOR M80-4D1XXXXSI THE RECOMMENDED WIRE TYPE = BS 3G 210 TYPE A, PTFE INSULATED 22 AWG. MAX INSULATION DIAMETER = ∅1.10mm, STRIP WIRE BY 2.00mm.
- RECOMMENDED HAND CRIMP TOOL FOR ALL CONTACTS = M22520/2-01 WITH POSITIONER T5747.
- CONTACT INSERTION & EXTRACTION TOOL = Z80-280.
- TO APPLY CIRCLIPS USE HARWIN TOOL = Z80-300.
- SEE TOOLING INSTRUCTION SHEET IS-32 FOR ASSEMBLY DETAILS AVAILABLE AT:
<http://www.harwin.com/downloads/instructions/>
- 1 BANDIT TIE SUPPLIED PER KIT

ORDER CODE:

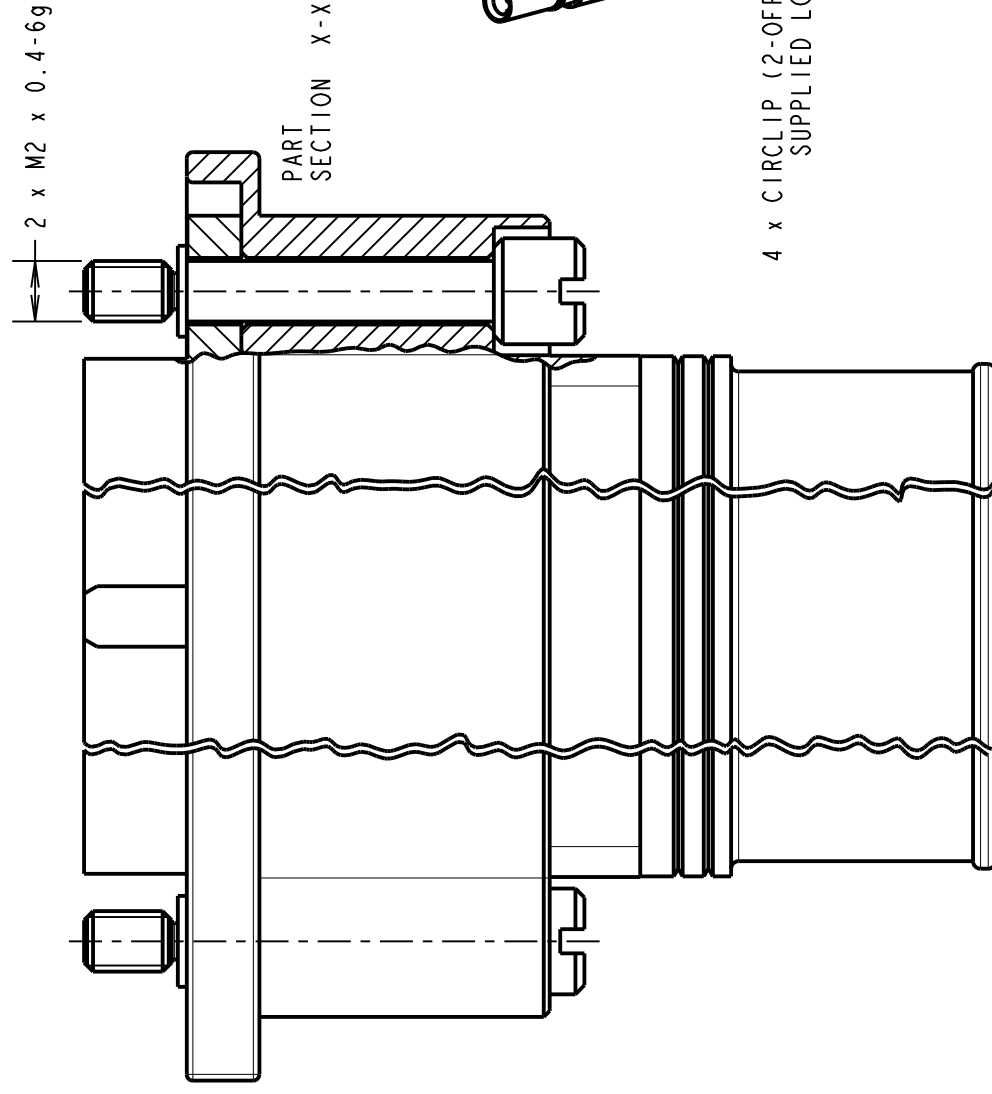
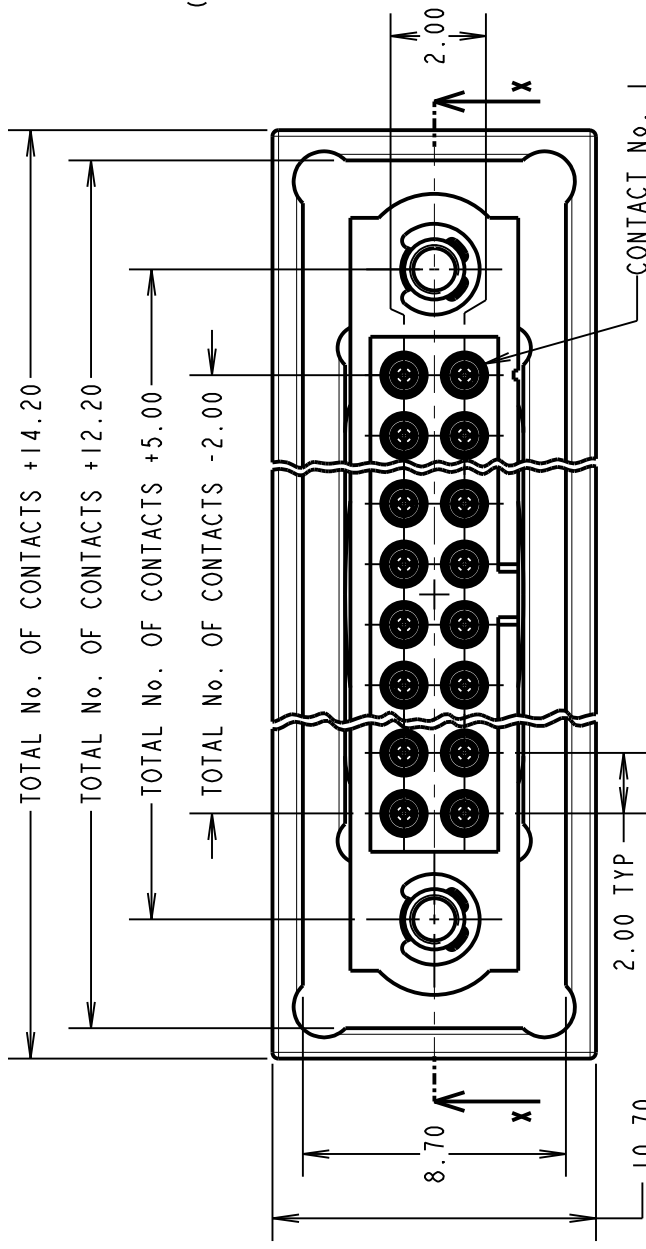
M80 - 4D1XXXXSI

TOTAL No. OF CONTACTS
 06, 10, 14, 20, 26

FINISH CODE
 05 - GOLD CLIP, GOLD SHELL
 42 - GOLD CLIP, 100% TIN OVER NICKEL SHELL

EXAMPLE ORDER CODE 1: CONNECTOR WITH 20 LARGE BORE SIGNAL CONTACTS, GOLD CLIP AND GOLD SHELL

M80 - 4D12042SI



4 x CIRCLIP (2-OFF REQUIRED)
 SUPPLIED LOOSE IN BAG
 SEE NOTE 6

2 x M2 SL
 SUPPL

HARWIN

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TOLERANCES
 X. = ±1mm
 X.X = ±0.25mm
 X.XX = ±0.10mm
 X.XXX = ±0.01mm
 ANGLES = ±5°
 UNLESS STATED

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