

Customer Information Sheet

DRAWING No.: M80-5000000M7-XX-XXX-00-000 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:
MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY

LATCHING COLLAR = BERYLLIUM COPPER

INSULATOR = PTFF BOARD MOUNT JACKSCREW, SCREW = STAINLESS STEEL FINISH:

POWER CONTACT:

BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD

LATCHING COLLAR = NICKEL

ELECTRICAL

WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC

INSULATION RESISTANCE = $100M\Omega$ MIN

POWER CONTACT:

CONTACT RESISTANCE = $6m\Omega$ MAX

CURRENT RATING = M80-335 = 20A MAX WITH 12AWG M80-336 = 15A MAX WITH 14AWG

M80-337 = IOA MAX WITH I6AWG M80-338 = 8A MAX WITH 18AWG

M80-339 = 5A MAX WITH 20AWG M80-PM5 = 40A MAX WITH IOAWG

CONTACT AS SPECIFIED

MECHANICAL:

DURABILITY = 500 OPERATIONS

POWER CONTACT: INSERTION FORCE

M80-335/336/337/338/339 = 8N MAX

M80-PM5 = 15N MAX

WITHDRAWAL FORCE = 0.5N MIN

FNVIRONMENTAL:

TEMPERATURE RANGE

DIMENSION

DIM 'A'

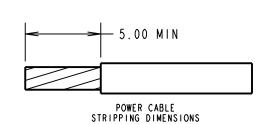
DIM 'B

DIM 'C'

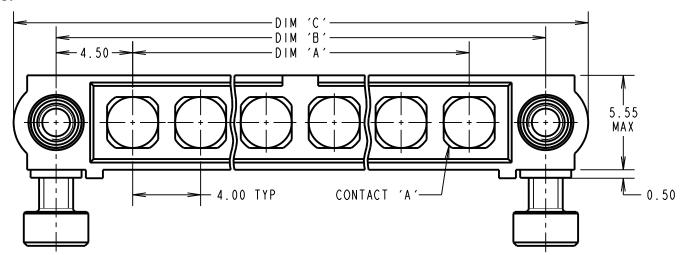
M80-335/336/337/338/339 = -55°C TO +125°C

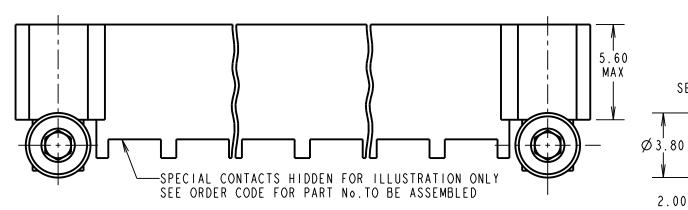
 $M80-PM5 = -55^{\circ}C TO + 150^{\circ}C$ PACKING:

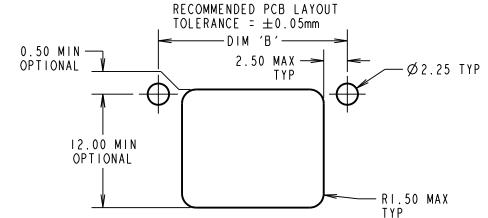
FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)



POWER CRIMP & SOLDER CONTACTS ONLY







CRIMP/SOLDER NOTES:

- . CONNECTORS ARE SUPPLIED WITH CONTACTS AND SCREWS LOOSE
- FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-335/336/337/338/339/PM5
- POWER CONTACT EXTRACTION TOOL = Z80-290.
- RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 338/339 = Z80-294 AND POSITIONER Z80-295.
- 5. INSTRUCTION SHEETS ARE AVAILABLE.



THIS DRAWING AND ANY
INFORMATION OR DESCRIPTIVE
MATTER SET OUT HEREON ARE
CONFIDENTIAL AND COPYRIGHT
PROPERTY OF THE HARWIN
GROUP AND MUST NOT BE
DISCLOSED, LOANED, COPIED
OR USED FOR MANUFACTURING,
TENDERING OR FOR ANY
OTHER PURPOSE WITHOUT
THEIR WRITTEN PERMISSION.

TOLERANCES X. = ±1mm X.X = ±0.50mm $X.XX = \pm 0.20$ mm FINISH:

MATERIAL: SEE ABOVE SEE ABOVE

335 = POWER CONTACT 12AWG SOLDER M80-335

336 = POWER CONTACT 14AWG SOLDER M80-336

337 = POWER CONTACT 16AWG SOLDER M80-337 338 = POWER CONTACT 18AWG SOLDER/CRIMP M80-338

PM5 = POWER CONTACT IOAWG SOLDER M80-PM5

339 = POWER CONTACT 20AWG SOLDER/CRIMP M80-339

M80-335/336/337 x No. OF CONTACTS

(12.7)

2 x M2x0.4

ORDER CODE: (POWER CRIMP/SOLDER CONTACTS)

8.60

MAX

- 7.85 MAX

2 x M2x0.4 —

SECTION Z-Z

TOTAL No. OF CONTACTS -

02 TO 12

SPECIAL CONTACTS

S/AREA:

TITLE: DATAMATE MIX-TEK MALE ASSY WITH HEX SOCKET BOARDMOUNT J/SCREW

DRAWING NUMBER: M80-5000000M7-XX-XXX-00-000 OF,

M80-5000000M7-XX-XXX-00-000 NAME ISS. DATE APPROVED: MGP CHECKED: MR DRAWN: S.MCCULLAGH CUSTOMER REF.: ASSEMBLY DRG:

M80-338/339

x No. OF CONTACTS

(14.0) -

(14.0) -

C/NOTE

M80-PM5

x No. OF CONTACTS

- 7.85 MAX

- 7.85 MAX

.XXX = ±0.01mm ANGLES = ±5° UNLESS STATED

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS, M80-5000000M7-10-335-00-000 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm

CALCULATION

4 x No. OF CONTACTS - 4.00

4 x No. OF CONTACTS + 5.00

4 x No. OF CONTACTS + 10.0

