

Customer Information Sheet

DRAWING No.: M80-400000FC-XX-XXX-00-000

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NOT TO SCALE

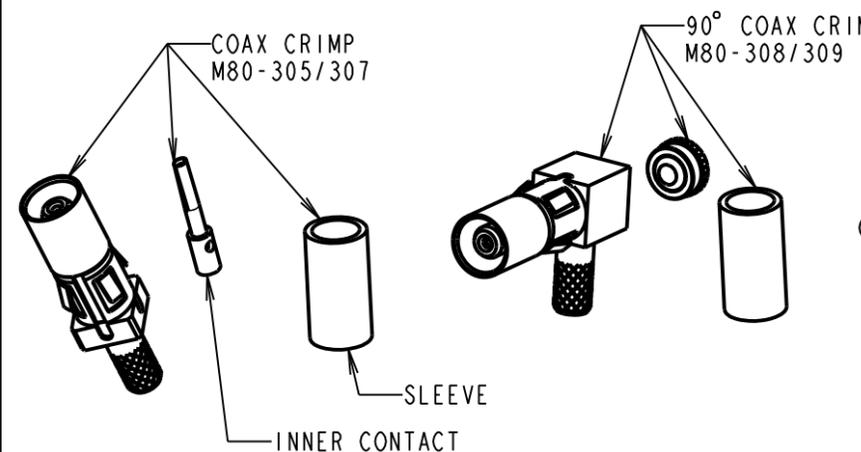
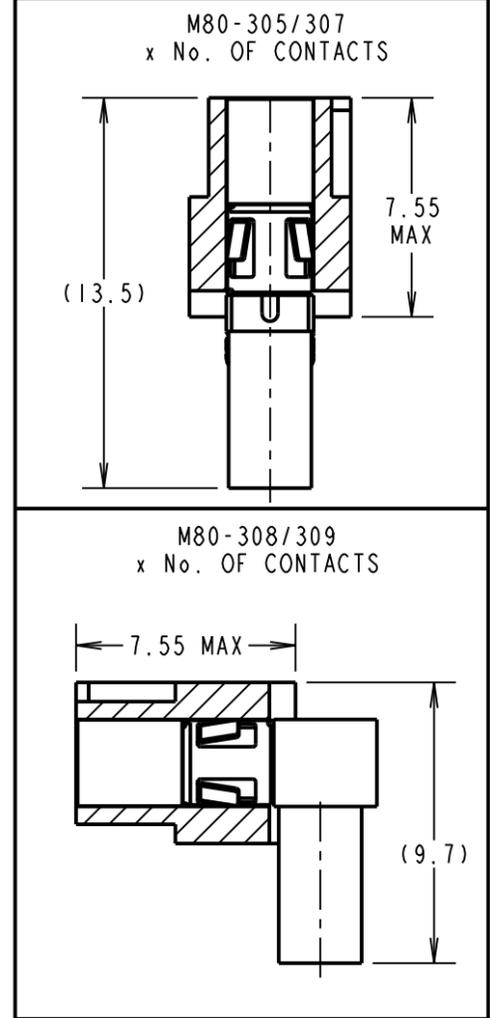
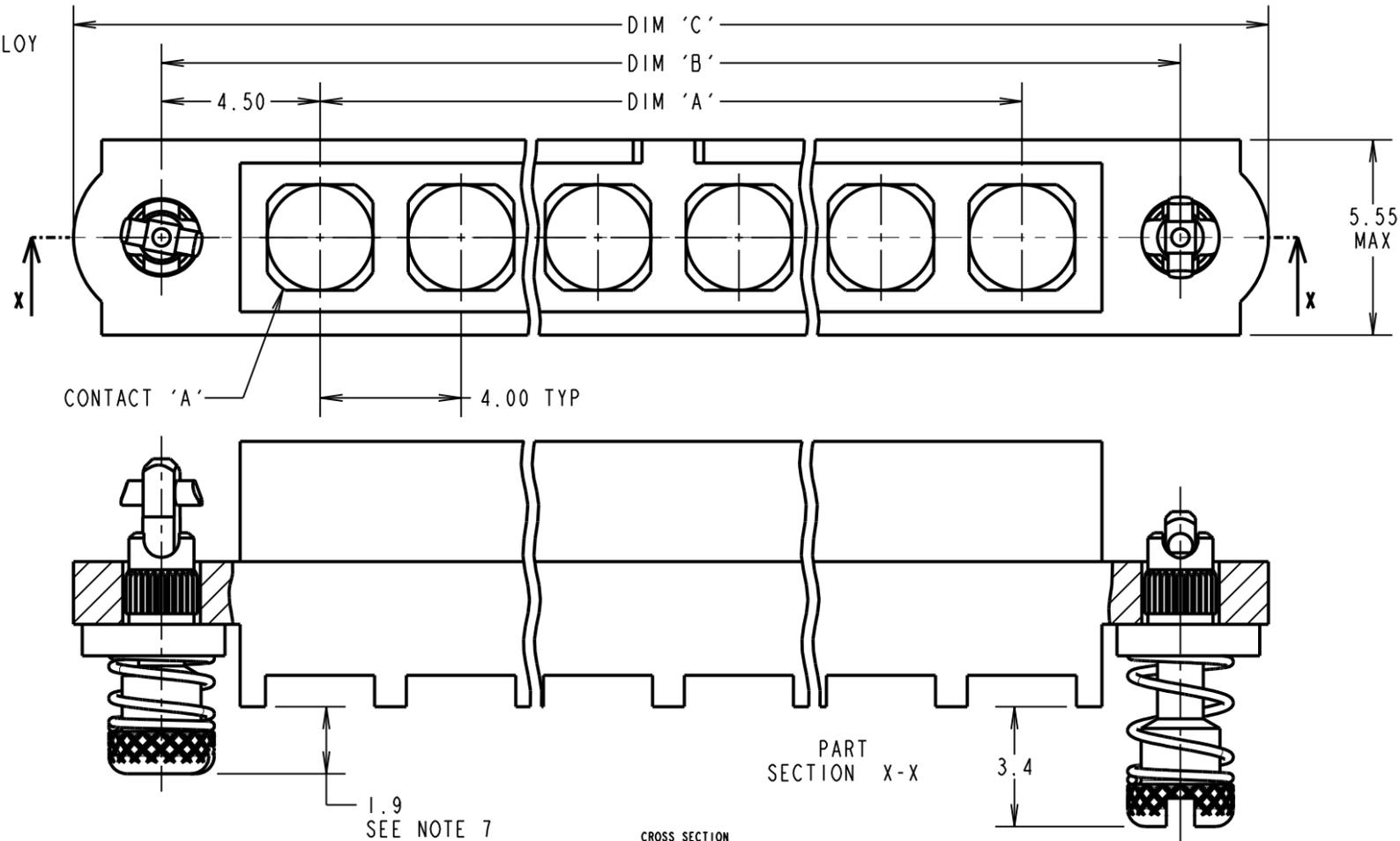
THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
COAX CONTACT:
 BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY
 LATCHING COLLAR = BERYLLIUM COPPER
 INSULATOR = PTFE
 IOILOK SCREW, COLLAR = STAINLESS STEEL
FINISH:
COAX CONTACT:
 BODY, SLEEVE, INNER CONTACT, END PLUG = GOLD
 LATCHING COLLAR = NICKEL
ELECTRICAL:
 WORKING VOLTAGE = 800V AC/DC
 VOLTAGE PROOF = 1200V AC/DC
 INSULATION RESISTANCE = 100MΩ MIN
COAX CONTACT:
 FREQUENCY RANGE = 6GHz
 IMPEDANCE = 50Ω
 V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX
 CONTACT RESISTANCE = 6mΩ MAX
 INSULATION RESISTANCE = 10⁶MΩ @ 250V AC
 OPERATING VOLTAGE = 180V AC @ 500mA
 MAXIMUM VOLTAGE = 1000V AC
MECHANICAL:
 DURABILITY = 500 OPERATIONS
COAX CONTACT:
 INSERTION FORCE = 8N MAX
 WITHDRAWAL FORCE = 0.5N MIN
ENVIRONMENTAL:
 TEMPERATURE RANGE = -55°C TO +125°C
PACKING:
 BAG
 FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION C005XX (LATEST ISSUE)

COAX CRIMP CONTACTS ONLY



- CRIMP/SOLDER NOTES:**
- CONNECTORS ARE SUPPLIED WITH CONTACTS, BUT NOT ASSEMBLED AS SHOWN FOR ILLUSTRATION.
 - COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, MAIN INSULATOR, INNER CONTACT AND LATCHING COLLAR ARE PRE-ASSEMBLED AND SLEEVE AND INSULATED END PLUG ASSEMBLY ARE SEPARATE.
 - FOR EXTRA COAX CONTACTS, USE PART NUMBERS M80-305/307/308/309.
 - COAX CONTACT EXTRACTION TOOL = Z80-290.
 - RECOMMENDED HAND CRIMP TOOL FOR INNER COAX CONTACT = Z80-292 WITH POSITIONER Z80-291. RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR SLEEVE = Z80-293.
 - INSTRUCTION SHEETS ARE AVAILABLE.
 - LENGTH WILL BE 1.9 WHEN IOILOK SCREWS ARE ENGAGED WITH RETAINERS IN MATING CONNECTOR.
 - SPRING LOAD WHEN SOLID = 2.642N. SPRING RATE = 1.32N/mm.

ORDER CODE: (COAX CRIMP CONTACTS ONLY)
M80-400000FC-XX-XXX-00-000

TOTAL No. OF CONTACTS _____
 02 TO 12

SPECIAL CONTACTS _____
 305 = COAX CONTACT 2.00mm CRIMP M80-305
 307 = COAX CONTACT 2.70mm CRIMP M80-307
 308 = COAX CONTACT 2.00mm HORIZ' CRIMP M80-308
 309 = COAX CONTACT 2.70mm HORIZ' CRIMP M80-309

DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.0

EXAMPLE 1: CONNECTOR WITH 08 COAX CONTACTS,
 M80-400000FC-08-305-00-000
 DIM 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.0mm

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		SHT 5 OF 8			

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THIRD ANGLE PROJECTION

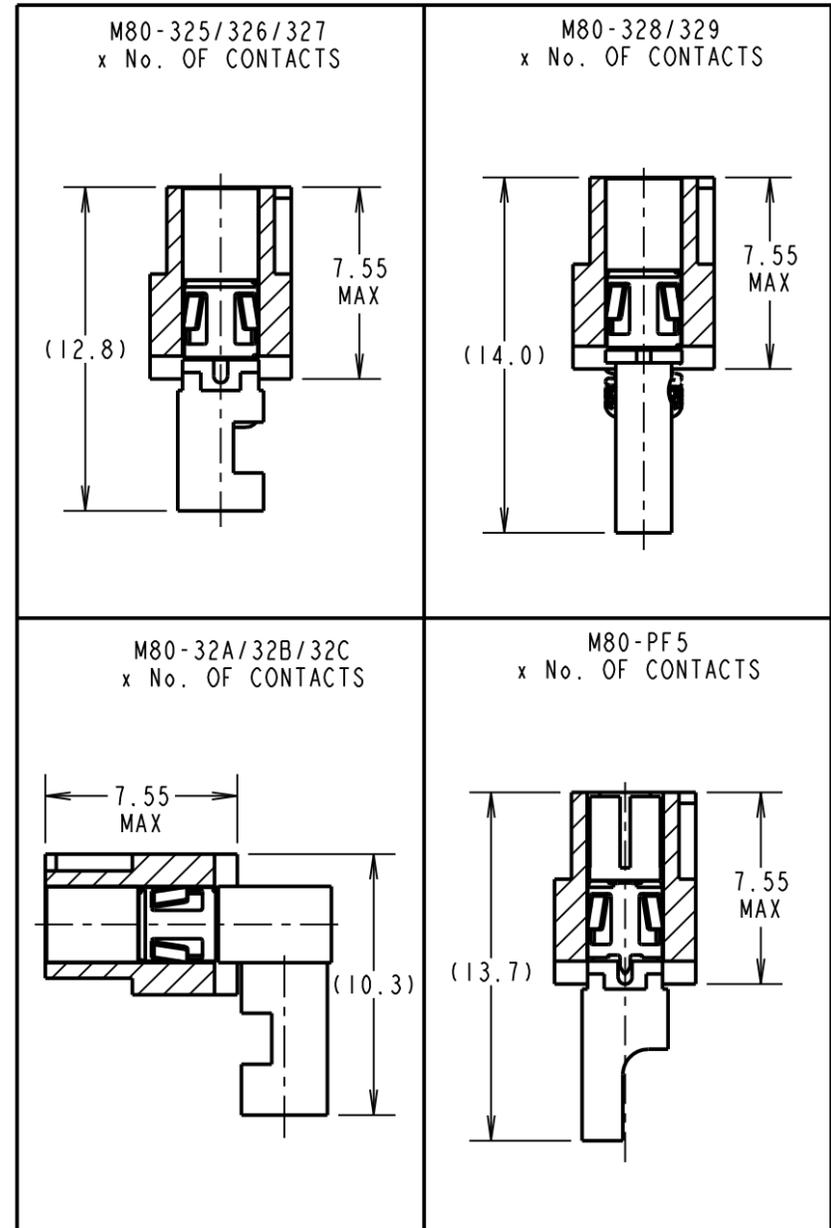
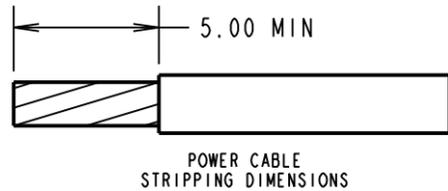
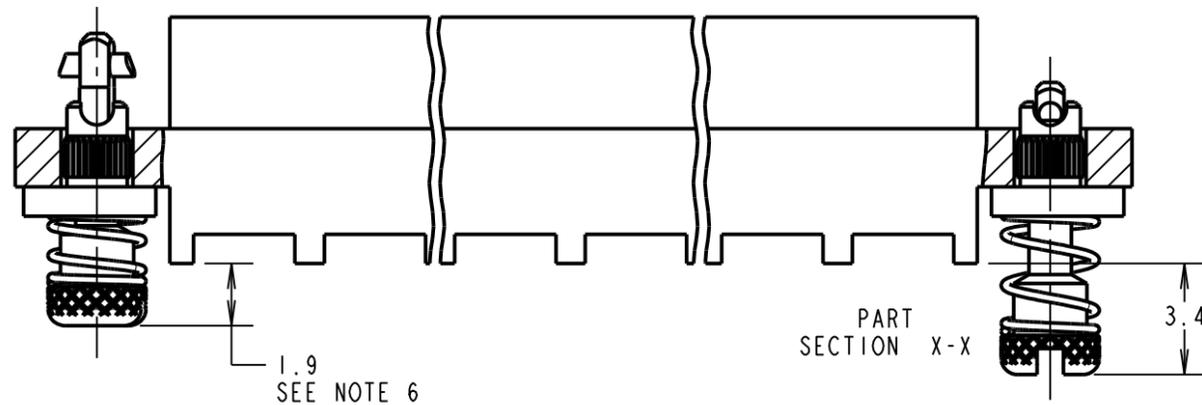
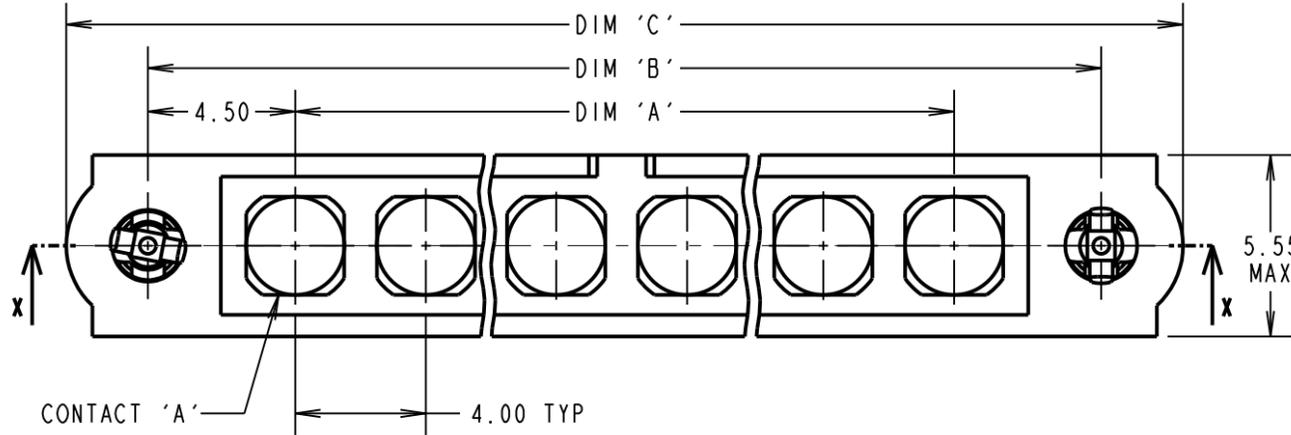
ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:
 MOULDING: GLASS FILLED PPS, UL94V-0, BLACK
POWER CONTACT:
 BODY, SLEEVE, INNER CONTACT, END PLUG = COPPER ALLOY
 LATCHING COLLAR = BERYLLIUM COPPER
 INSULATOR = PTFE
 IOILOK SCREW, COLLAR = 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 = 100MΩ MIN
POWER CONTACT:
 CONTACT RESISTANCE = 6mΩ MAX
 CURRENT RATING = M80-325 = 20A MAX WITH 12AWG
 M80-326 = 15A MAX WITH 14AWG
 M80-327 = 10A MAX WITH 16AWG
 M80-328 = 8A MAX WITH 18AWG
 M80-329 = 5A MAX WITH 20AWG
 M80-32A = 20A MAX WITH 12AWG
 M80-32B = 15A MAX WITH 14AWG
 M80-32C = 10A MAX WITH 16AWG
 M80-PF5 = 40A MAX WITH 10AWG
 CONTACT AS SPECIFIED

MECHANICAL:
 DURABILITY = 500 OPERATIONS
POWER CONTACT:
 INSERTION FORCE:
 M80-325/326/327/328/329/
 32A/32B/32C = 8N MAX
 M80-PF5 = 15N MAX
 WITHDRAWAL FORCE = 0.5N MIN
ENVIRONMENTAL:
 TEMPERATURE RANGE:
 M80-325/326/327/328/329/
 32A/32B/32C = -55°C TO +125°C
 M80-PF5 = -55°C TO +150°C
PACKING:
 BAG
 FOR COMPLETE SPECIFICATION SEE COMPONENT
 SPECIFICATION C005XX (LATEST ISSUE)

POWER CRIMP & SOLDER CONTACTS ONLY



CRIMP/SOLDER NOTES:

- CONNECTORS ARE SUPPLIED WITH CONTACTS, BUT NOT ASSEMBLED AS SHOWN FOR ILLUSTRATION.
- FOR EXTRA POWER CONTACTS USE PART NUMBERS M80-325/326/327/328/329/32A/32B/32C/PM5.
- POWER CONTACT EXTRACTION TOOL = Z80-290.
- RECOMMENDED HAND CRIMP TOOL FOR CONTACTS 328/329 = Z80-294 AND POSITIONER Z80-295.
- INSTRUCTION SHEETS ARE AVAILABLE.
- LENGTH WILL BE 1.9 WHEN IOILOK SCREWS ARE ENGAGED WITH RETAINERS IN MATING CONNECTOR.
- SPRING LOAD WHEN SOLID = 2.642N. SPRING RATE = 1.32N/mm.

ORDER CODE: (POWER CRIMP/SOLDER CONTACTS ONLY)
M80-400000FC-XX-XXX-00-000

TOTAL No. OF CONTACTS _____
 02 TO 12

SPECIAL CONTACTS
 325 = POWER CONTACT 12AWG SOLDER M80-325
 326 = POWER CONTACT 14AWG SOLDER M80-326
 327 = POWER CONTACT 16AWG SOLDER M80-327
 328 = POWER CONTACT 18AWG SOLDER/CRIMP M80-328
 329 = POWER CONTACT 20AWG SOLDER/CRIMP M80-329
 32A = POWER CONTACT 12AWG HORIZ' SOLDER M80-32A
 32B = POWER CONTACT 14AWG HORIZ' SOLDER M80-32B
 32C = POWER CONTACT 16AWG HORIZ' SOLDER M80-32C
 PF5 = POWER CONTACT 10AWG SOLDER M80-PF5

MGP	8	20.02.19	21793
NAME	ISS.	DATE	C/NOTE
APPROVED: MGP			
CHECKED: SB			
DRAWN: C.PENROSE			
CUSTOMER REF.:			
ASSEMBLY DRG:			

DIMENSION	CALCULATION
DIM 'A'	4 x No. OF CONTACTS - 4.00
DIM 'B'	4 x No. OF CONTACTS + 5.00
DIM 'C'	4 x No. OF CONTACTS + 10.0

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS,
 M80-400000FC-10-325-00-000
 DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.0mm

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TOLERANCES
 X. = ±1mm
 X.X = ±0.50mm
 X.XX = ±0.20mm
 X.XXX = ±0.01mm
ANGLES = ±5°
 UNLESS STATED

MATERIAL:
 SEE ABOVE
FINISH: SEE ABOVE
S/AREA: mm²

TITLE: DATAMATE MIX-TEK FEMALE ASSEMBLY WITH IOILOK JACKSCREW

DRAWING NUMBER: M80-400000FC-XX-XXX-00-000

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