#### Customer Information Sheet DRAWING No.: M80-4000000FI-XX-XXX-00-000 THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm SPECIFICATIONS: -DIM 'C M80-305/306/307 M80-325/326/327 MATERIAL: x No. OF CONTACTS x No. OF CONTACTS MOULDING: GLASS FILLED PPS, UL94V-0, BLACK POWER & COAX CONTACT: BODY = COPPER ALLOY INNER CONTACT, LATCHING COLLAR = BERYLLIUM COPPER INSULATOR = PTFE MAX JACKSCREW, CIRCLIP: STAINLESS STEEL MAXFINISH: 5 55 POWER & COAX CONTACT (12.8)(13.5)BODY, SLEEVE, INNER CONTACT = GOLD MAX LATCHING COLLAR: = NICKEL FIFCTRICAL: WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE = 100M $\Omega$ MIN 4.00 TYP -CONTACT 'A' POWER CONTACT: 2 x M2x0.4 CONTACT RESISTANCE = 6mΩ MAX CURRENT RATING = M80–325 20A MAX 12AWG, M80-326 I5A MAX I4AWG, M80-327 IOA MAX I6AWG, M80-308/309 M80-32A/32B/32C M80-328 8A MAX 18AWG. M80-329 5A MAX 20AWG. x No. OF CONTACTS x No. OF CONTACTS M80-32A 20A MAX 12AWG, M80-32B 15A MAX 14AWG, M80-32C IOA MAX I6AWG, CONTACT AS SPECIFIED COAX CONTACT: FREQUENCY RANGE = 6GHz IMPEDANCE = 50 $\Omega$ V.S.W.R = 1.05 + (0.04 x FREQUENCY) GHz MAX(10.3) $(\Pi)$ CONTACT RESISTANCE 6 mΩ MAX INSULATION RESISTANCE = $10^6 \text{M}\Omega$ @250V AC OPERATING VOLTAGE = 180V AC @ 500mA SPECIAL CONTACTS HIDDEN FOR ILLUSTRATION ONLY-MAXIMUM VOLTAGE = 1000V AC 2 x 3.0 A/F MECHANICAL: SEE ORDER CODE FOR PART No. TO BE ASSEMBLED SLOTTED HEX HEAD DURABILITY = 500 OPERATIONS (10.3)— (9,7) — POWER & COAX CONTACT: INSERTION FORCE = 8N MAX COAX FEMALE STRAIGHT CRIMP 90° COAX CRIMP-WITHDRAWAL FORCE = 0.5N MIN M80-328/329 **ENVIRONMENTAL:** 1.00 x No. OF CONTACTS TEMPERATURE RANGE = -55°C TO +125°C < 5.00 → PACKING: FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE) INNER CONTACT SLEEVE POWER CABLE STRIPPING DIMENSIONS MAX COAX STRIPPING CROSS SECTION OF COAX CONTACT BODY ASSEMBLY $(14^{\dot{}}0)$ LATCHING COLLAR ORDER CODE: (CRIMP/SOLDER) CRIMP/SOLDER CONTACTS ONLY M80-400000FI-XX-XXX-00-000 TOTAL No. OF CONTACTS \_\_\_\_ 02 TO 12 5 07.01.12 11898 SPECIAL CONTACTS CONNECTORS ARE SUPPLIED WITH CONTACTS LOOSE. COAX CONTACT IS SUPPLIED AS A KIT OF PARTS: BODY, INSULATOR AND LATCHING 305 = COAX CONTACT CRIMP 2.0mm M80-305 NAME ISS. DATE 306 = COAX CONTACT CRIMP 2.4mm M80-306 COLLAR ARE PRE-ASSEMBLED. SLEEVE AND INNER CONTACT ARE SEPARATE. 307 = COAX CONTACT CRIMP 2.7mm M80-307 APPROVED: MGP 3. FOR EXTRA COAX CONTACTS, USE PART NUMBER M80-305/306/307/308/309 DIMENSION CALCULATION 308 = 90° COAX CONTACT CRIMP 2.0mm M80-308 CHECKED: SB FOR EXTRA POWER CONTACTS, USE PART NUMBER M80-325/326/327/328/329/ 309 = 90° COAX CONTACT CRIMP 2.7mm M80-309

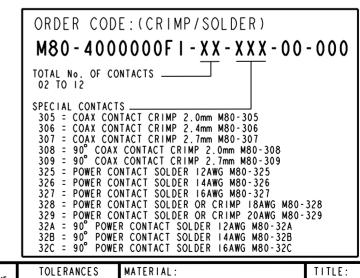
### 4 x No. OF CONTACTS -4.00 DIM 'A' DIM 'B' 4 x No. OF CONTACTS + 5.00 DIM 'C' 4 x No. OF CONTACTS + 10.00

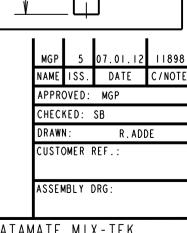
EXAMPLE I: CONNNECTOR WITH 08 COAX CONTACTS. M80-400000FI-08-305-00-000 'A' = 28.00mm, DIM 'B' = 37.00mm, DIM 'C' = 42.00mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS. M80-400000FI-I0-325-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mmDIM 'C' = 50.00mm

- RECOMMENDED HAND CRIMP TOOL FOR COAX INNER CONTACT = Z80-292 WITH POSITIONER Z80-291 AND RECOMMENDED HAND CRIMP TOOL AND DIE SET FOR COAX SLEEVE = Z80-293.
- POWER AND COAX CONTACT EXTRACTION TOOL = Z80-290
- 6. INSTRUCTION SHEETS ARE AVAILABLE.
- FOR EXAMPLE OF ALL COAX SPECIAL CONTACTS ORDER CODE SEE EXAMPLE I IN TABLE
- 8. FOR EXAMPLE OF ALL POWER SPECIAL CONTACTS ORDER CODE SEE EXAMPLE 2 IN TABLE.







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X. = ±1mm X.X = ±0.25mm X.XX = ±0.10mm ..XXX = ±0.01mm FINISH:

UNLESS STATED

S/AREA:

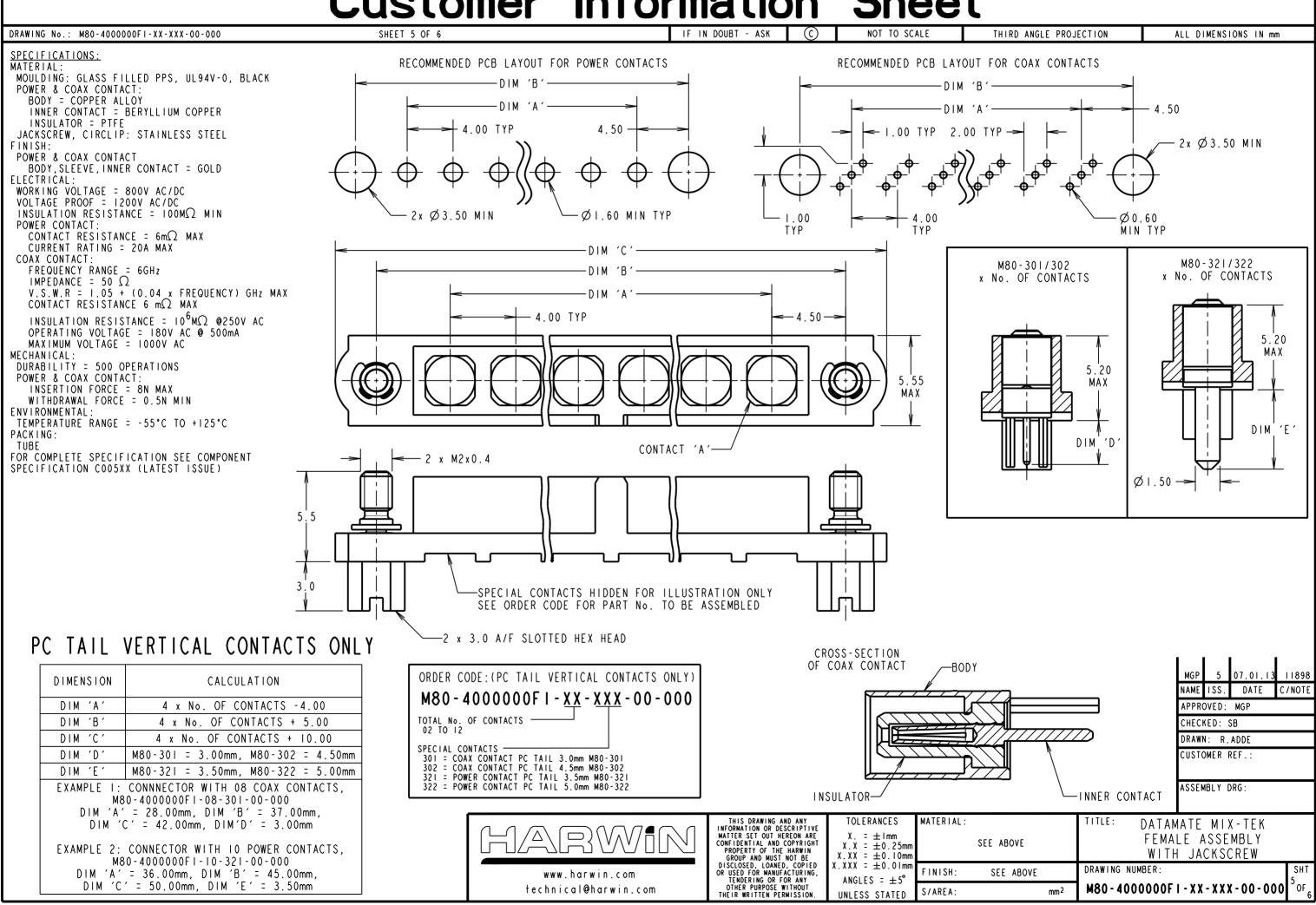
SEE ABOVE

DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

DRAWING NUMBER: SEE ABOVE

M80-400000FI-XX-XXX-00-000 0F6

# Customer Information Sheet



technical@harwin.com

UNLESS STATED

S/AREA:

M80-4000000F1-XX-XXX-00-000 OF,

DIM 'C' = 50.00mm, DIM 'E' = 3.50mm

## Customer Information Sheet

PC TAIL HORIZONTAL CONTACTS ONLY

M80-4000000FI-XX-XXX-00-000 DRAWING No.: SHEET 6 OF 6 NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

### **SPECIFICATIONS:**

MATERIAL: MOULDING: GLASS FILLED PPS, UL94V-O, BLACK POWER CONTACT: COPPER ALLOY

JACKSCREW, CIRCLIP: STAINLESS STEEL

FINISH:

POWER CONTACT: GOLD

ELECTRICAL:

WORKING VOLTAGE = 800V AC/DC VOLTAGE PROOF = 1200V AC/DC INSULATION RESISTANCE =  $100M\Omega$  MIN

POWER CONTACT: CONTACT RESISTANCE = 6 m $\Omega$  MAX

CURRENT RATING = 20A MAX MECHANICAL:

DURABILITY = 500 OPERATIONS POWER CONTACT:

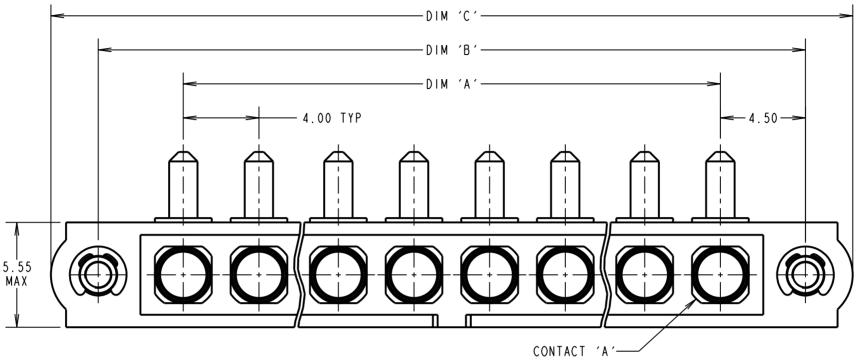
INSERTION FORCE = 8N MAX WITHDRAWAL FORCE = 0.5N MIN

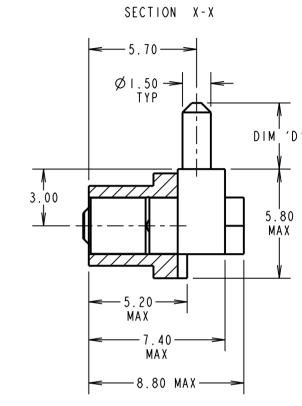
ENVIRONMENTAL: TEMPERATURE RANGE = -55°C TO +125°C

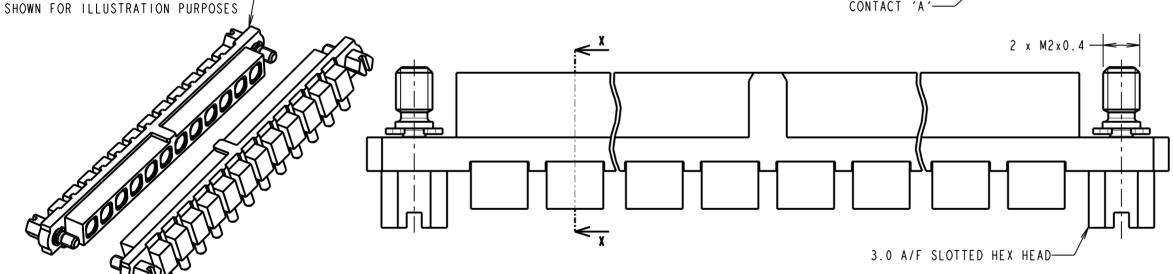
PACKING:

FOR COMPLETE SPECIFICATION SEE COMPONENT SPECIFICATION COO5XX (LATEST ISSUE)

M80-4000000FI-12-323-00-00-







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 + 10.00		
DIM 'D'	M80-323 = 3.50mm, M80-324 = 5.00mm		

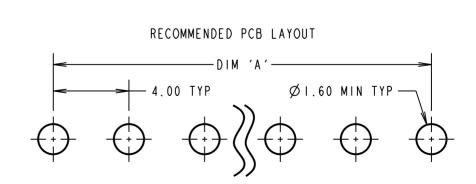
EXAMPLE 1: CONNECTOR WITH 10 POWER CONTACTS 3.5mm. M80-400000FI-10-323-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM 'D' = 3.50mm

EXAMPLE 2: CONNECTOR WITH 10 POWER CONTACTS 5.0mm, M80-400000FI-I0-324-00-000

DIM 'A' = 36.00mm, DIM 'B' = 45.00mm, DIM 'C' = 50.00mm DIM 'D' = 5.00mm

ORDER CODE: (PC TAIL HORIZONTAL CONTACTS  M80-400000FI-XX-XX	
TOTAL No. OF CONTACTS 02 TO 12	
FEMALE HORIZONTAL POWER CONTACTS  323 = POWER CONTACT PC TAIL 3.5mm M80  324 = POWER CONTACT PC TAIL 5.0mm M80	



MGP	5	07.01.13	11898			
NAME	188.	DATE	C/NOTE			
APPRO	MGP					
CHEC	CHECKED: SB					
DRAWN: R. ADDE						
CUSTOMER REF.;						
ASSEM	MBLY (	ORG:				



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TOLERANCES X. = ±1mm X.X = ±0.25mm X.XX = ±0.10mm .XXX = ±0.01mm

MATERIAL: SEE ABOVE FINISH: SEE ABOVE DATAMATE MIX-TEK FEMALE ASSEMBLY WITH JACKSCREW

DRAWING NUMBER:

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S/AREA: UNLESS STATED

M80-4000000F1-XX-XXX-00-000 6 OF