

Customer Information Sheet

DRAWING No.: M90-3101F10SL-3S

SHEET 2 OF 2

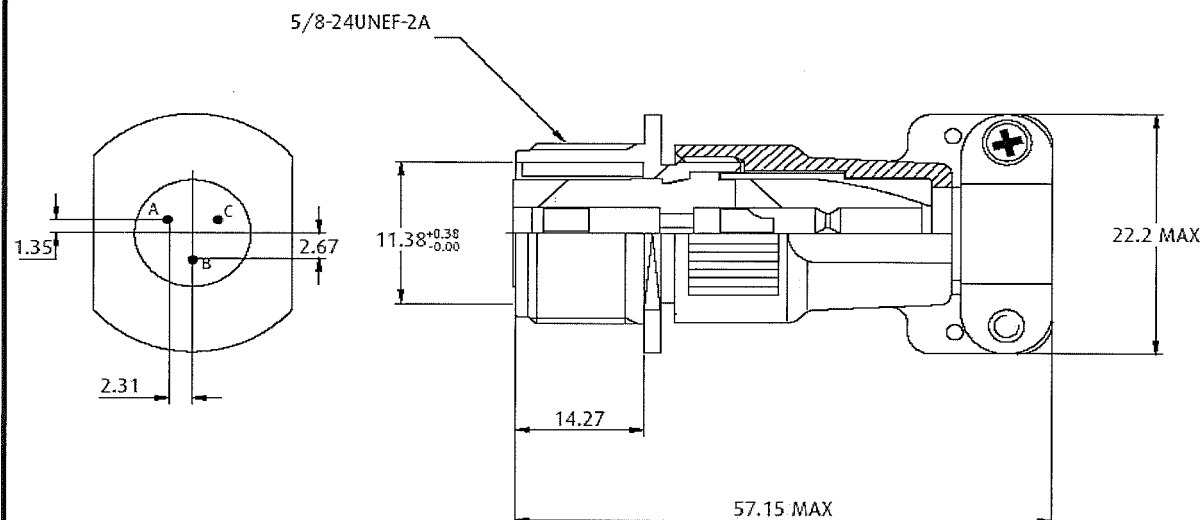
IF IN DOUBT - ASK

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THIRD ANGLE PROJECTION

NOT TO SCALE

ALL DIMENSIONS IN mm



NOTES:

1. PRODUCT IS RoHS COMPLIANT
2. PRODUCT IS PACKED IN BAGS
3. RECOMMENDED WIRE SIZE 16-22 AWG

SPECIFICATIONS:

MATERIAL:

SHELL = ALUMINIUM ALLOY
INSULATOR = POLYCHLOROPRENE
GROMMET = POLYCHLOROPRENE
CONTACT = COPPER ALLOY

FINISH:

SHELL = ZINC WITH BLACK CHROMATE COATING
CONTACT = SILVER

ELECTRICAL:

CURRENT RATING = 13 AMPS
VOLTAGE RATING = 500V AC, 700V DC
INSULATION RESISTANCE = 5,000 MΩ MIN

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C
VIBRATION = 10 - 500Hz (10G) PER MIL-STD-1344, Method 2005
SALT SPRAY = 48 HRS, 5% SALT SOLUTION, PER MIL-STD-1344
Method 1001

HUMIDITY = 95±3%, 71±2°C, 14 DAYS

MECHANICAL:

COUPLING : THREADED
POLARISATION : SINGLE KEY / KEYWAY
CONTACT TYPE : SOLDER
CONTACT ARRANGEMENT : 3 CONTACTS
DURABILITY : 500 OPERATIONS

RA	3	02.12.08	10228
NAME	ISS.	DATE	C/NOTE
APPROVED			
CHECKED:			
DRAWN:		M. G. PLESTED	
CUSTOMER REF:			
ASSEMBLY DRG:			

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TOLERANCES

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

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

TITLE:

CABLE CONNECTOR -
3 SOCKET CONTACTS

DRAWING NUMBER:

M90-3101F10SL-3S

SHT
2
OF
2

HARWIN USA

TEL: 603 893 5376

FAX: 603 893 5396

mis@harwin.com

HARWIN Europe (UK)

TEL: 023 9231 4545

FAX: 023 9231 4590

mis@harwin.co.uk

HARWIN Asia

TEL: +65 6 779 4909

FAX: +65 6 779 3868

mis@harwin.com.sg

Customer Information Sheet

DRAWING No.: M90-3101F10SL-4S

SHEET 2 OF 2

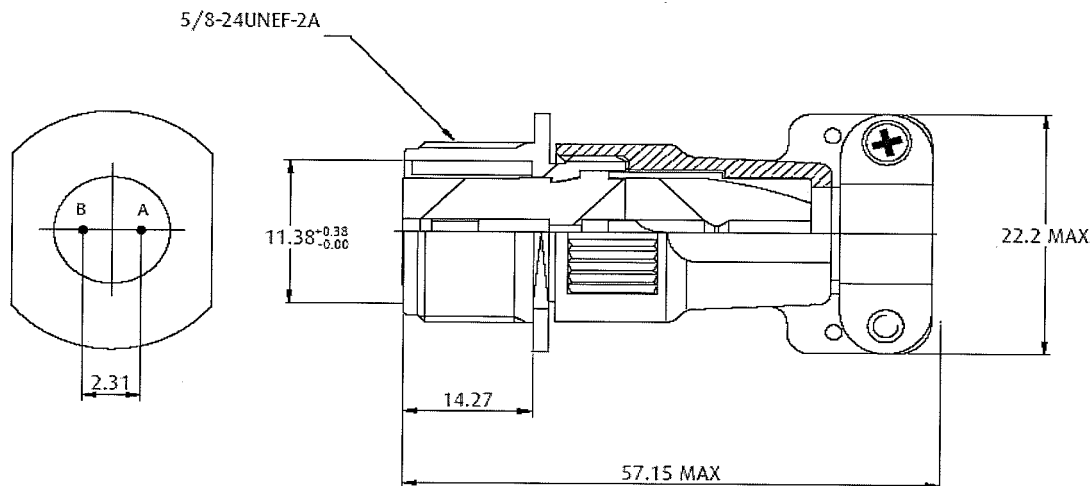
IF IN DOUBT - ASK

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THIRD ANGLE PROJECTION

NOT TO SCALE

ALL DIMENSIONS IN mm



SPECIFICATIONS:

MATERIAL:

SHELL = ALUMINIUM ALLOY

INSULATOR = POLYCHLOROPRENE

GROMMET = POLYCHLOROPRENE

CONTACT = COPPER ALLOY

FINISH:

SHELL = ZINC WITH BLACK CHROMATE COATING

CONTACT = SILVER

ELECTRICAL:

CURRENT RATING = 13 AMPS

VOLTAGE RATING = 500V AC, 700V DC

INSULATION RESISTANCE = 5,000 MΩ MIN

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

VIBRATION = 10 - 500Hz (10G) PER MIL-STD-1344, Method 2005

SALT SPRAY = 48 HRS, 5% SALT SOLUTION, PER MIL-STD-1344
Method 1001

HUMIDITY = 95±3%, 71±2°C, 14 DAYS

MECHANICAL:

COUPLING : THREADED

POLARISATION : SINGLE KEY / KEYWAY

CONTACT TYPE : SOLDER

CONTACT ARRANGEMENT : 2 CONTACTS

DURABILITY : 500 OPERATIONS

NOTES:

1. PRODUCT IS RoHS COMPLIANT.
2. PRODUCT IS PACKED IN BAGS.
3. RECOMMENDED WIRE SIZE 16-22 AWG

RA	3	02.12.08	10228
NAME	ISS.	DATE	C/NOTE
APPROVED			
CHECKED:			
DRAWN:	M.G.PLESTED		
CUSTOMER REF:			
ASSEMBLY DRG:			

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TOLERANCES

X. = ±1mm

X.X = ±0.25mm

X.XX = ±0.10mm

X.XXX = ±0.01mm

ANGLES = ±5°

UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

TITLE:

CABLE CONNECTOR -
2 SOCKET CONTACTS

DRAWING NUMBER:

M90-3101F10SL-4S

SHT
2
OF
2

HARWIN USA

TEL: 603 893 5376

FAX: 603 893 5396

mis@harwin.com

HARWIN Europe (UK)

TEL: 023 9231 4545

FAX: 023 9231 4590

mis@harwin.co.uk

HARWIN Asia

TEL: +65 6 779 4909

FAX: +65 6 779 3868

mis@harwin.com.sg

Customer Information Sheet

DRAWING No.: M90-3101F12S-3S

SHEET 2 OF 2

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(C)

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIAL:

SHELL: ALUMINIUM ALLOY
INSULATOR: NITRILE BUTADIENE RUBBER
GROMMET: NITRILE BUTADIENE RUBBER
CONTACT COPPER ALLOY

FINISH:

SHELL: ZINC PLATED WITH BLACK CHROMATE COATING
CONTACT: SILVER

ELECTRICAL:

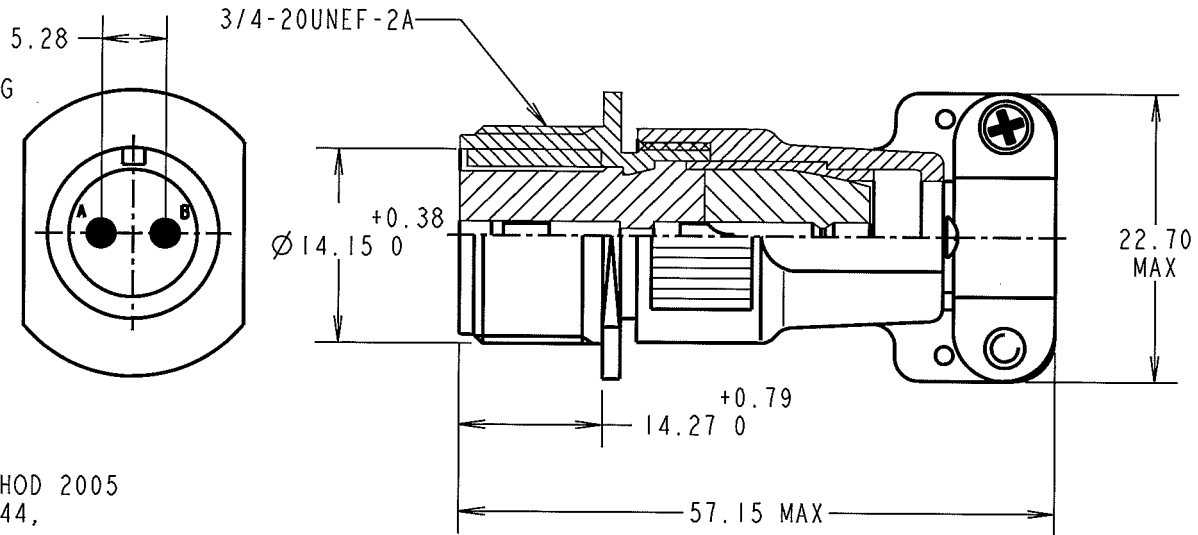
CURRENT RATING: 13 AMPS
VOLTAGE RATING: 500V AC, 700V DC
INSULATION RESISTANCE: 5,000 MΩ MIN

MECHANICAL:

COUPLING: THREADED
POLARISATION: SINGLE KEY/KEYWAY
CONTACT TYPE: SOLDER
CONTACT ARRANGEMENT: 2 CONTACTS
DURABILITY: 500 CYCLES

ENVIRONMENTAL:

TEMPERATURE RANGE: -55°C TO -125°C
VIBRATION: 10-500Hz (10G), PER MIL-STD-1344, METHOD 2005
SALT SPRAY: 48HRS. SALT SOLUTION 5%, PER MIL-1344, METHOD 1001
HUMIDITY: RELATIVE HUMIDITY 95±3%, 71°C±2°C, 14 DAYS



NOTES:

1. PRODUCT IS RoHS COMPLIANT
2. PRODUCT IS PACKED IN BAGS.
3. RECOMMENDED WIRE SIZE 16-22 AWG.

RA	2	02.12.08	10228
NAME	ISS.	DATE	C/NOTE
APPROVED: <i>[Signature]</i>			
CHECKED: <i>[Signature]</i>			
DRAWN: R. ADDE			
CUSTOMER REF.:			
ASSEMBLY DRG:			

HARWIN

HARWIN USA
TEL: 603 893 5376
FAX: 603 893 5396
mis@harwin.com

HARWIN Europe (UK)
TEL: 023 9231 4545
FAX: 023 9231 4590
mis@harwin.co.uk

HARWIN Asia
TEL: +65 6 779 4909
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TOLERANCES

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

ANGLES = ±5°

UNLESS STATED

MATERIAL:

FINISH:

S/AREA:

mm²

TITLE:

CABLE CONNECTOR-
2 PIN CONTACTS

DRAWING NUMBER:

M90-3101F12S-3S

SHT
2 OF 2

Customer Information Sheet

DRAWING No.: M90-3101F14S-2S

SHEET 2 OF 2

IF IN DOUBT - ASK

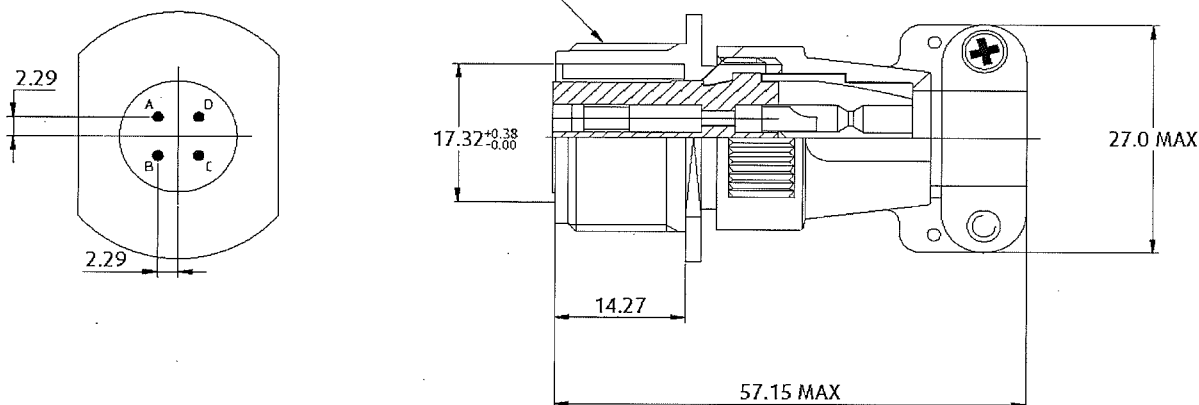
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THIRD ANGLE PROJECTION

NOT TO SCALE

ALL DIMENSIONS IN mm

7/8-20UNEF-2A

**NOTES:**

1. PRODUCT IS RoHS COMPLIANT.
2. PRODUCT IS PACKED IN BAGS.
3. RECOMMENDED WIRE SIZE 16-22 AWG

SPECIFICATIONS:**MATERIAL:**

SHELL = ALUMINIUM ALLOY

INSULATOR = POLYCHLOROPRENE

GROMMET = POLYCHLOROPRENE

CONTACT = COPPER ALLOY

FINISH:

SHELL = ZINC WITH BLACK CHROMATE COATING

CONTACT = SILVER

ELECTRICAL:

CURRENT RATING = 13 AMPS

VOLTAGE RATING = 500V AC, 700V DC

INSULATION RESISTANCE = 5,000 MΩ MIN

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C

VIBRATION = 10 - 500Hz (10G) PER MIL-STD-1344, Method 2005

SALT SPRAY = 48 HRS, 5% SALT SOLUTION, PER MIL-STD-1344
Method 1001

HUMIDITY = 95±3%, 71±2°C, 14 DAYS

MECHANICAL:

COUPLING : THREADED

POLARISATION : SINGLE KEY/ KEYWAY

CONTACT TYPE : SOLDER

CONTACT ARRANGEMENT : 4 CONTACTS

DURABILITY : 500 OPERATIONS

RA	2	02.12.08	10228
NAME	ISS.	DATE	C/NOTE
APPROVED			
CHECKED:			
DRAWN:		M.G.PLESTED	
CUSTOMER REF:			
ASSEMBLY DRG:			

HARWIN

HARWIN USA
TEL: 603 893 5376
FAX: 603 893 5396
mis@harwin.com

HARWIN Europe (UK)
TEL: 023 9231 4545
FAX: 023 9231 4590
mis@harwin.co.uk

HARWIN Asia
TEL: +65 6 779 4909
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mis@harwin.com.sg

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

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

TITLE:
CABLE CONNECTOR -
4 SOCKET CONTACTS

DRAWING NUMBER:
M90-3101F14S-2S

SHT
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OF
2

Customer Information Sheet

DRAWING No.: M90-3101F14S-6S

SHEET 2 OF 2

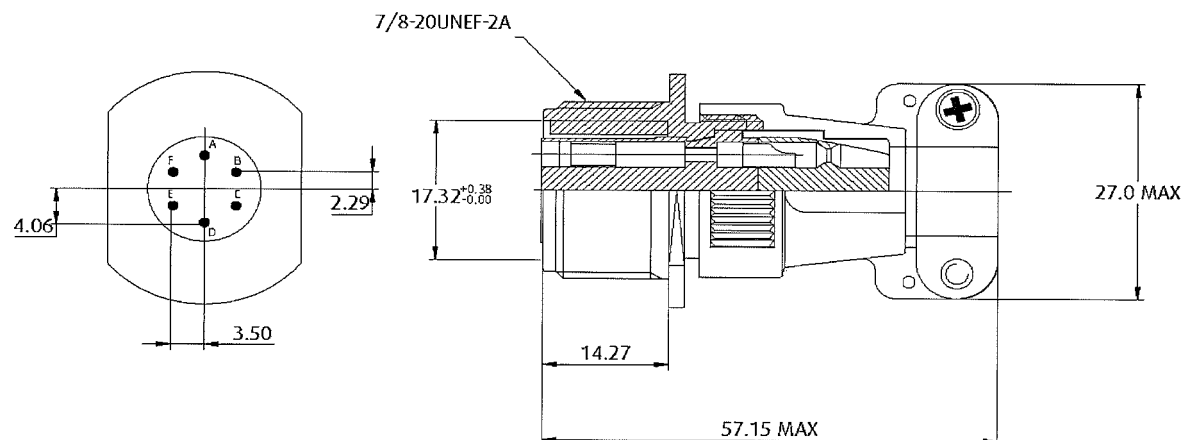
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ALL DIMENSIONS IN mm



NOTES:

1. PRODUCT IS RoHS COMPLIANT.
2. PRODUCT IS PACKED IN BAGS.
3. RECOMMENDED WIRE SIZE 16-22 AWG

SPECIFICATIONS:

MATERIAL:

SHELL = ALUMINIUM ALLOY
INSULATOR = POLYCHLOROPRENE
GROMMET = POLYCHLOROPRENE
CONTACT = COPPER ALLOY

FINISH:

SHELL = ZINC WITH BLACK CHROMATE COATING
CONTACT = SILVER

ELECTRICAL:

CURRENT RATING = 13 AMPS
VOLTAGE RATING = 200V AC, 250V DC
INSULATION RESISTANCE = 5,000 MΩ MIN

ENVIRONMENTAL:

TEMPERATURE RANGE = -55°C TO +125°C
VIBRATION = 10 - 500Hz (10G) PER MIL-STD-1344, Method 2005
SALT SPRAY = 48 HRS, 5% SALT SOLUTION, PER MIL-STD-1344
Method 1001

HUMIDITY = 95±3%, 71±2°C, 14 DAYS

MECHANICAL:

COUPLING : THREADED
POLARISATION : SINGLE KEY/ KEYWAY
CONTACT TYPE : SOLDER
CONTACT ARRANGEMENT : 6 CONTACTS
DURABILITY : 500 OPERATIONS

RA	4	02.12.08	10228
NAME	ISS.	DATE	C/NOTE
APPROVED			
CHECKED:			
DRAWN:		M. G. PLESTED	
CUSTOMER REF:			
ASSEMBLY DRG:			

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

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

TITLE:

CABLE CONNECTOR -
6 SOCKET CONTACTS

DRAWING NUMBER:

M90-3101F14S-6S

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HARWIN USA

TEL: 603 893 5376

FAX: 603 893 5396

mis@harwin.com

HARWIN Europe (UK)

TEL: 023 9231 4545

FAX: 023 9231 4590

mis@harwin.co.uk

HARWIN Asia

TEL: +65 6 779 4909

FAX: +65 6 779 3868

mis@harwin.com.sg

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