

Customer Information Sheet

DRAWING No.: M90-3106F10SL-3P

SHEET 2 OF 2

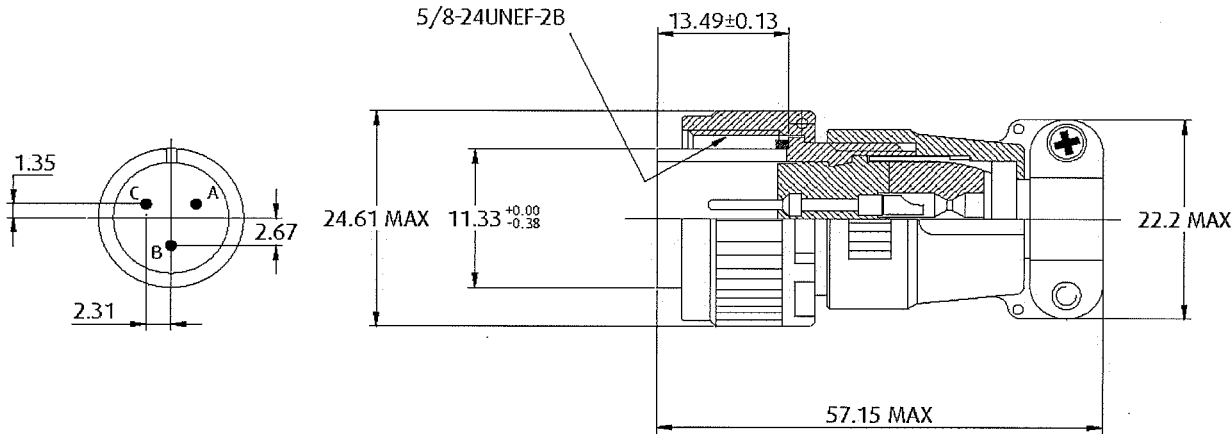
IF IN DOUBT - ASK

©

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 : 3 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	15.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED			
CHECKED:			
DRAWN:		M.G.PLESTED	
CUSTOMER REF:			
ASSEMBLY DRG:			

HARWIN

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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:

FREE PLUG -
3 PIN CONTACTS

DRAWING NUMBER:

M90-3106F10SL-3P

SHT

2

OF

2

HARWIN USA

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FAX: 603 893 5396

mis@harwin.com

HARWIN Europe (UK)

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FAX: 023 9231 4590

mis@harwin.co.uk

HARWIN Asia

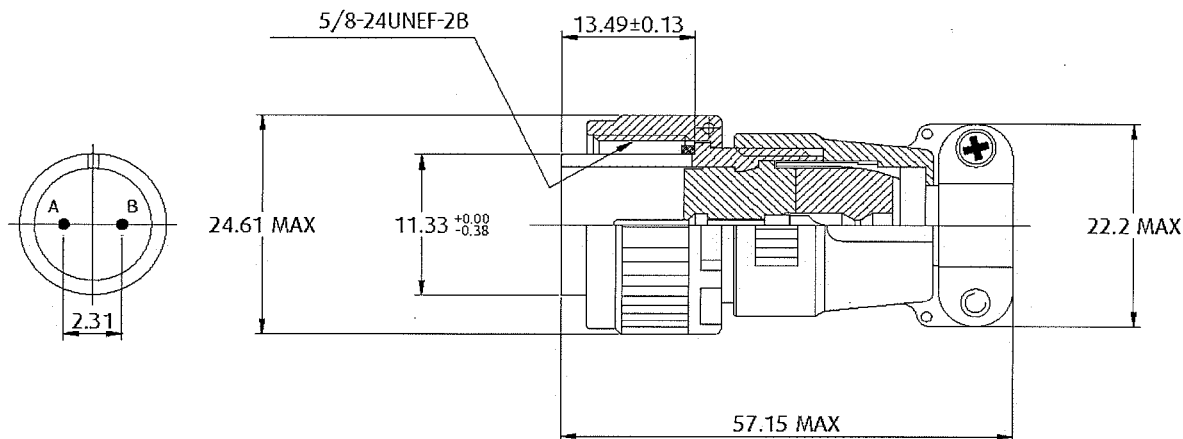
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FAX: +65 6 779 3868

mis@harwin.com.sg

Customer Information Sheet

DRAWING No.: M90-3106F10SL-4P SHEET 2 OF 2 IF IN DOUBT - ASK © 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

RA	3	15.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED			
CHECKED:			
DRAWN:		M.G.PLESTED	
CUSTOMER REF:			
ASSEMBLY DRG:			

NOTES:

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

HARWIN

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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:
 FREE PLUG -
 2 PIN CONTACTS
DRAWING NUMBER:
M90-3106F10SL-4P
SHT
 2
OF
 2

Customer Information Sheet

DRAWING No.: M90-3106F12S-3P

SHEET 2 OF 2

IF IN DOUBT - ASK

©

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:

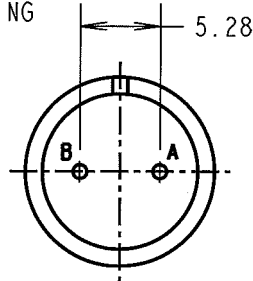
SHELL: ZINC PLATED WITH BLACK CHROMATE COATING
 CONTACT: SILVER

ELECTRICAL:

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

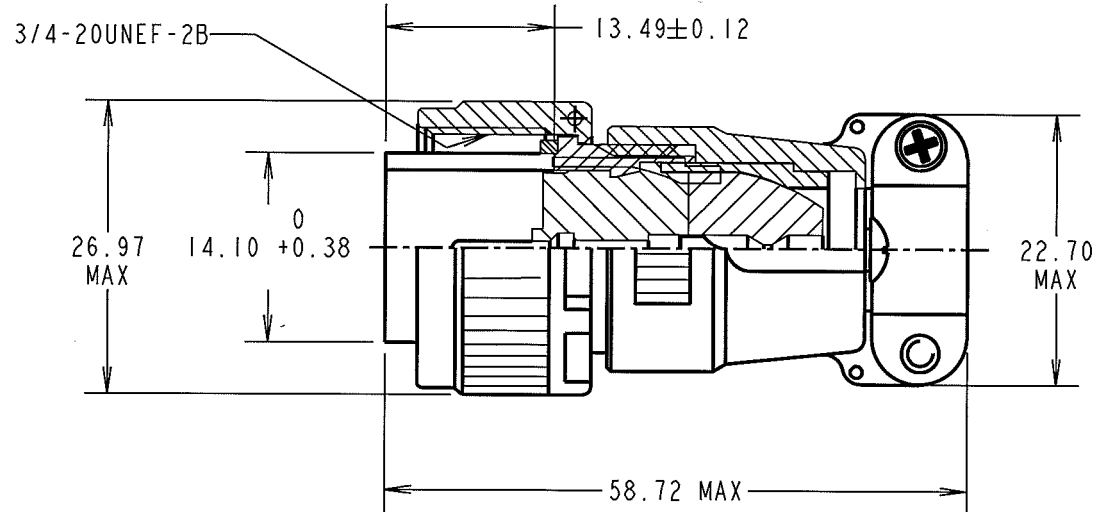
MECHANICAL:

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	16.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED: <i>[Signature]</i>			
CHECKED: <i>[Signature]</i>			
DRAWN:		R. ADDE	
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:
S/AREA: mm²

TITLE:
 CABLE CONNECTOR-
 2 PIN CONTACTS
DRAWING NUMBER:
 M90-3106F12S-3P
 SHT 2 OF 2

Customer Information Sheet

DRAWING No.: M90-3106F14S-2P

SHEET 2 OF 2

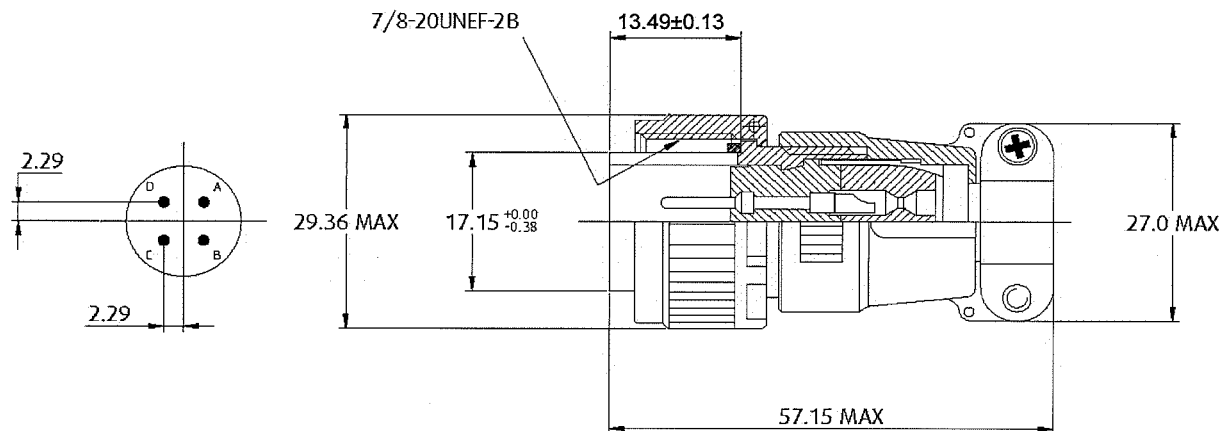
IF IN DOUBT - ASK

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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 = 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 : 4 CONTACTS

DURABILITY : 500 OPERATIONS

NOTES:

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

RA	4	15.01.09	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:

FREE PLUG -
4 PIN CONTACTS

DRAWING NUMBER:

M90-3106F14S-2P

SHT

2

OF

2

HARWIN USA

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Customer Information Sheet

DRAWING No.: M90-3106F14S-6P

SHEET 2 OF 2

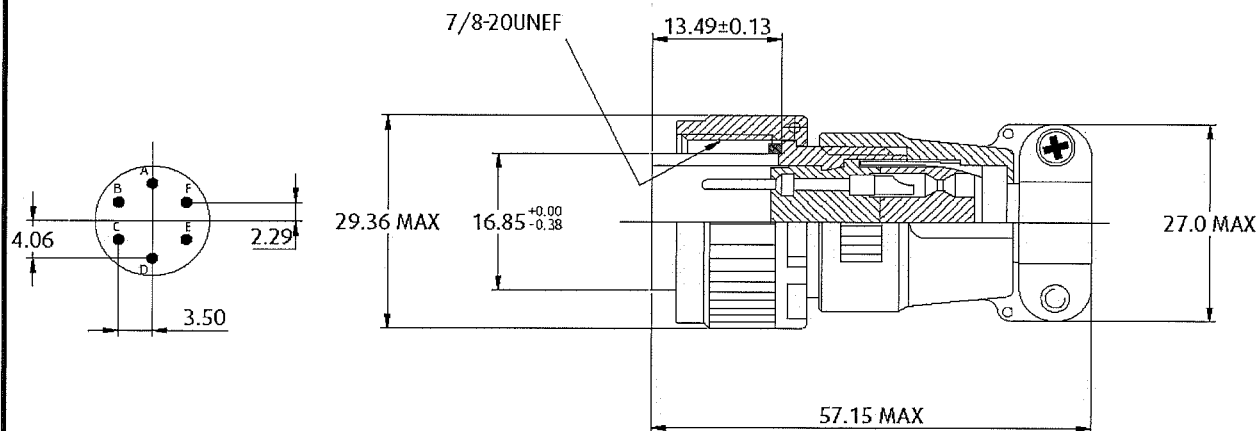
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THIRD ANGLE PROJECTION

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 = 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

NOTES:

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

RA	4	15.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED	<i>[Signature]</i>		
CHECKED:	<i>[Signature]</i>		
DRAWN:	M.G.PLESTED		
CUSTOMER REF:			
ASSEMBLY DRG:			

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 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:
FREE PLUG - 6 PIN CONTACTS

DRAWING NUMBER:
M90-3106F14S-6P

SHT
2
OF
2

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