



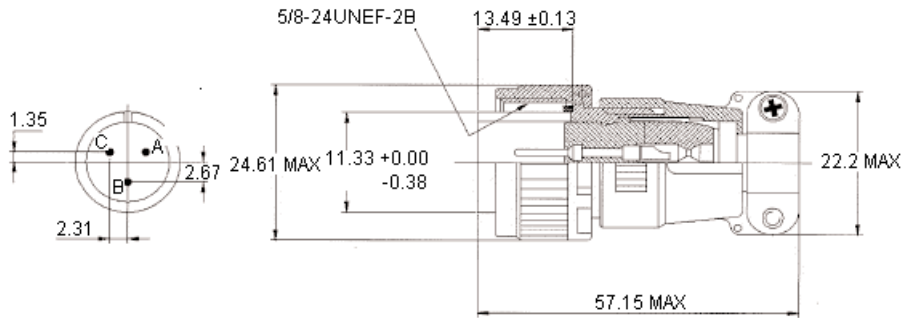
PART NO.

M90-3106F1 - Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Malli	20/03/10	Jagan	20/03/10	Farnell	05/04/10

M90-3106F10SL-3P



Dimensions: Millimetres

Specifications:

Material:

Shell	: Aluminum 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	: 5000MΩ minimum

Environmental:

Temperature range	: 55°C to 125°C
Vibration	: 10 to 500Hz (10g) per MIL-STD-1344, method 2005
Salt spray	: 48 hours, 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

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Malli

DATE:

20/03/10

CHECKED BY:

Jagan

DATE:

20/03/10

APPROVED BY:

Farnell

DATE:

05/04/10

DRAWING TITLE:

Free Plug - 3 Pin Contacts

SIZE
A

DWG NO.

M10002527

ELECTRONIC FILE
3106F-P-DWGREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 5



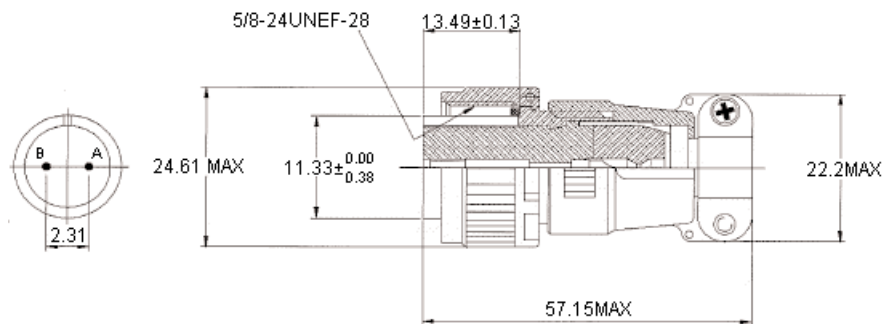
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M90-3106F1 - Series

REVISIONS

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-	A	RELEASED	Malli	20/03/10	Jagan	20/03/10	Farnell	05/04/10

M90-3106F10SL-4P



Dimensions: Millimetres

Specifications:

Material:

Shell	: Aluminum alloy
Insulator	: Polychloroprene.
Grommet	: Polychloroprene.
Contact	: Copper alloy

Finish:

Shell	: Zinc with black chromtate coating
Contact	: Silver

Electrical:

Current rating	: 13 Amps
Voltage rating	: 500V ac, 700V dc
Insulation resistance	: 5000MΩ minimum

Environmental:

Temperature range	: 55°C to 125°C
Vibration	: 10 to 500Hz (10g) per MIL-STD-1344, method 2005
Salt spray	: 48 hours, 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

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20/03/10

APPROVED BY:

Farnell

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05/04/10

DRAWING TITLE:

Free Plug - 2 Pin Contacts

SIZE
A

DWG NO.

M10002527

ELECTRONIC FILE
3106F-P-DWGREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 5



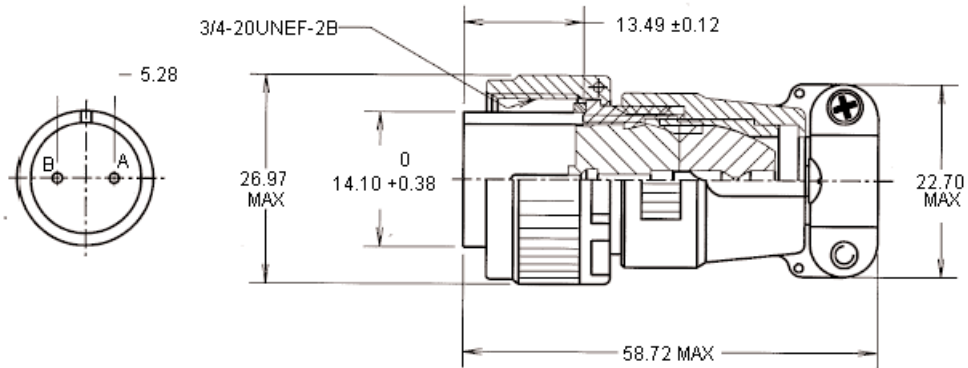
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REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Malli	20/03/10	Jagan	20/03/10	Farnell	05/04/10

M90-3106F12S-3P



Dimensions: Millimetres

Specifications:

Material:

Shell	: Aluminum alloy
Insulator	: Nitrile butadiene rubber
Grommet	: Nitrile butadiene rubber
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	: 5000MΩ minimum

Environmental:

Temperature range	: 55°C to 125°C
Vibration	: 10 to 500Hz (10g) per MIL-STD-1344, method 2005
Salt spray	: 48 hours, 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 cycles

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DRAWING TITLE:

Free Plug - 2 Pin Contacts

SIZE
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DWG NO.

M10002527

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SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 5



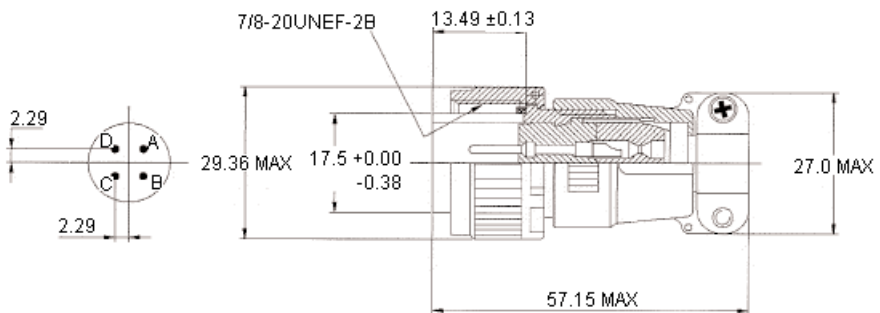
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M90-3106F1 - Series

REVISIONS

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-	A	RELEASED	Malli	20/03/10	Jagan	20/03/10	Farnell	05/04/10

M90-3106F14S-2P



Dimensions: Millimetres

Specifications:

Material:

Shell	: Aluminum alloy
Insulator	: Polychloroprene.
Grommet	: Polychloroprene.
Contact	: Copper alloy

Finish:

Shell	: Zinc with black chromtate coating
Contact	: Silver

Electrical:

Current rating	: 13 Amps
Voltage rating	: 500V ac, 700V dc
Insulation resistance	: 5000MΩ minimum

Environmental:

Temperature range	: 55°C to 125°C
Vibration	: 10 to 500Hz (10g) per MIL-STD-1344, method 2005
Salt spray	: 48 hours, 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

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05/04/10

DRAWING TITLE:

Free Plug - 4 Pin Contacts

SIZE
A

DWG NO.

M10002527

ELECTRONIC FILE
3106F-P-DWGREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 4 OF 5



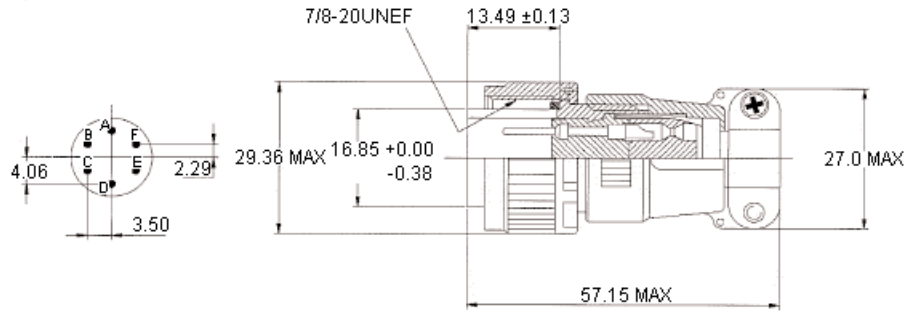
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M90-3106F1 - Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Malli	20/03/10	Jagan	20/03/10	Farnell	05/04/10

M90-3106F14S-6P



Dimensions: Millimetres

Part Number Table

Description	Part Number
Plug, Free, 3 Way	M90-3106F10SL-3P
Plug, Free, 2 Way	M90-3106F10SL-4P
Plug, Free, 2 Way	M90-3106F12S-3P
Plug, Free, 4 Way	M90-3106F14S-2P
Plug, Free, 6 Way	M90-3106F14S-6P

Specifications:

Material:

Shell	: Aluminum alloy
Insulator	: Polychloroprene.
Grommet	: Polychloroprene.
Contact	: Copper alloy

Finish:

Shell	: Zinc with black chromtate coating
Contact	: Silver

Electrical:

Current rating	: 13 Amps
Voltage rating	: 500V ac, 700V dc
Insulation resistance	: 5000MΩ minimum

Environmental:

Temperature range	: 55°C to 125°C
Vibration	: 10 to 500Hz (10g) per MIL-STD-1344, method 2005
Salt spray	: 48 hours, 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

<http://www.farnell.com><http://www.newark.com><http://www.cpc.co.uk>

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20/03/10

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05/04/10

DRAWING TITLE:

Free Plug - 6 Pin Contacts

SIZE
A

DWG NO.

M10002527

ELECTRONIC FILE
3106F-P-DWGREV
A

SCALE: NTS

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SHEET: 5 OF 5