

Series 89 Nanominiature Circular Connector Shell Size/Contact Arrangements and Keyway Positions



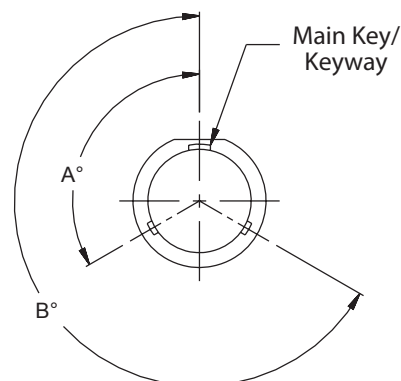
General Information

A

Circular Receptacle Mating Face Views		
Size 1-4, 4 Contacts	Size 1-7, 7 Contacts	Size 2-19, 19 Contacts
Size 3-37, 37 Contacts	Size 4-44, 44 Contacts	Size 4-55, 55 Contacts

Position identification's are for reference only, and do not exist on actual connector

Key Positions			
Size	Polarization	A°	B°
1-4	N	150	210
	A	75	210
1-7	N	95	230
	A	140	275
2-19	N	150	210
	A	75	210
3-37	N	150	210
	A	75	210
4-44	N	150	210
	A	75	210
4-55	N	95	230
	A	140	275



Dimensions in inches (millimeters) and are subject to change without notice.

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Series 89 Nano Catalog

U.S. CAGE Code 06324/OCA77

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Glenair Protective Dust Covers.

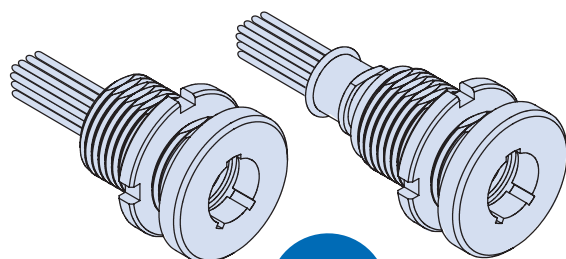
Protect your connectors during shipping and storage with our plastic connector covers. These lightweight covers protect susceptible mating interfaces to insure a working product.



Glenair, Inc
1211 Air Way
Glendale, California
91201-2497

For more information
contact the factory at
818.247.6000

892-000 Circular Breakaway, Front Panel Mount Receptacle Connector with Insulated Wire



**MATES
WITH
892-007**

Glenair Front Panel Mount Breakaway Receptacle

Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-007.

B

How To Order Circular Nano Connectors

Sample Part Number	892	-000	-02	1-7	N	A2	-0	A	7	-12
Series	892 - Nano Circular with Insulated Wire									
Shell Style	000 - Front Panel Mount Breakaway Receptacle									
Accessory	01 - No Backshell 02 - With Backshell 03 - Overmolded 04 - Shrink Boot									
Shell Size/ Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table I									
Polarization	N - Normal A - Alternate									
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated									
Wire Gauge	0 - 30 AWG 2 - 32 AWG									
Wire Type	A - Ultralightweight XLETFE Insulation, Silver Coated Ultrahigh Strength Copper (Not Available in #32 AWG) B - Extruded PTFE Insulation, Silver-Coated Copper NEMA HP3-ETX (MIL-W-16878/6) C - Cross Linked Modified ETFE Insulation, Silver Coated High Strength Copper. MIL-W-22759/33 (not available in #32 AWG)									
Wire Color	1 - White 2 - Yellow 7 - 10 Color Repeating (Wire Type A Is Striped, Types B and C Are Solid Colors)									
Wire Length (Inches)	12 = 12.00 + 1.00 Inches									

Table I: 892 Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

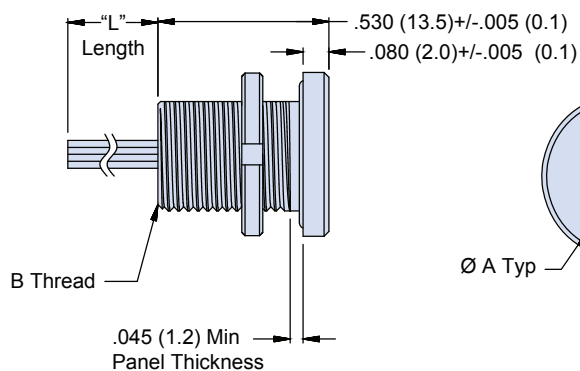
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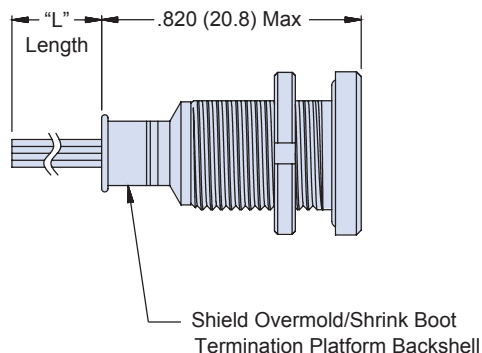
892-000 Circular Breakaway, Front Panel Mount Receptacle Connector with Insulated Wire

Table II: Dimensions

892-000-01 Without Termination Platform



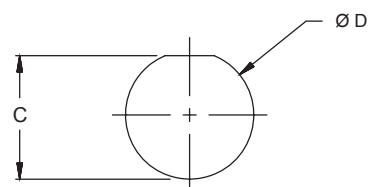
892-000-02 With Termination Platform



Size	Ø A +/- .005	B Thread
1-4	.489 (12.5)	M8.5 X 0.75-6g
1-7	.489 (12.5)	M8.5 X 0.75-6g
2-19	.528 (13.5)	M9.5 X 0.75-6g
3-37	.567 (14.5)	M10.5 X 0.75-6g
4-44	.627 (16.0)	M12.0 X 0.75-6g
4-55	.627 (16.0)	M12.0 X 0.75-6g

Table III: Front Panel Mount Panel Cut-Out

Size	C +.002 / -.001	ØD +.002 / -.001
1-4	.320 (8.2)	.340 (8.1)
1-7	.320 (8.2)	.340 (8.1)
2-19	.359 (9.2)	.380 (9.2)
3-37	.399 (10.2)	.420 (10.7)
4-44	.457 (11.7)	.479 (12.2)
4-55	.457 (11.7)	.457 (12.2)

**Material/finish:**

- Shell/spanner nut/backshell - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plate

Dimensions in inches (millimeters) and are subject to change without notice.

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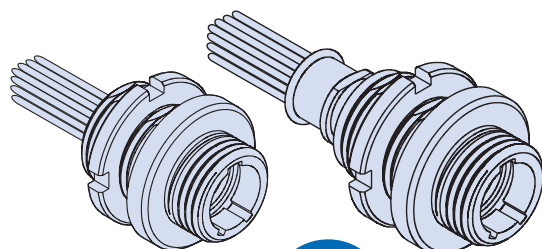
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892-001 Circular Threaded, Front Panel Mount Receptacle Connector with Insulated Wire



Circular
Nanominatures



**MATES
WITH
892-006**

Glenair Front Panel Mount Threaded Coupling Receptacle Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-006.

B

How To Order Circular Nano Connectors

Sample Part Number	892	-001	-02	1-7	N	A2	-0	A	7	-12
Series	892 - Nano Circular with Insulated Wire									
Shell Style	001 - Front Panel Mount Threaded Coupling Receptacle									
Accessory	01 - No Backshell 02 - With Backshell 03 - Overmolded 04 - Shrink Boot									
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 1-7 - Shell Size 1 with 7 contacts 2-19 - Shell Size 2 with 19 contacts See Table I 3-37 - Shell Size 3 with 37 contacts 4-44 - Shell Size 4 with 44 contacts 4-55 - Shell Size 4 with 55 contacts									
Polarization	N - Normal A - Alternate									
Shell Material/Finish	A2 - Aluminum/Electroless Nickel A5 - Aluminum/Gold Over Nickel S1 - Stainless Steel/Zinc Cobalt (Black) S2 - Stainless Steel/Passivated									
Wire Gauge	0 - 30 AWG 2 - 32 AWG									
Wire Type	A - Ultralightweight XLETFE insulation, silver coated ultrahigh strength copper B - Extruded PTFE insulation, silver-coated copper NEMA HP3-ETX (MIL-W-16878/6) C - Cross linked modified ETFE insulation, silver coated high strength copper. MIL-W-22759/33 (not available in #32 AWG)									
Wire Color	1 - White 2 - Yellow 7 - 10 Color repeating (Wire type A is striped, types B and C are solid colors)									
Wire Length (Inches)	12 = 12.00 + 1.00 Inches									

Table I: 892 Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

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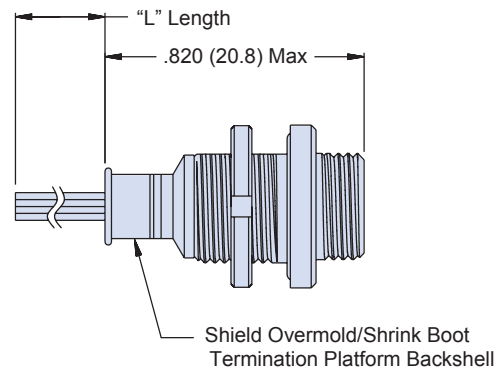
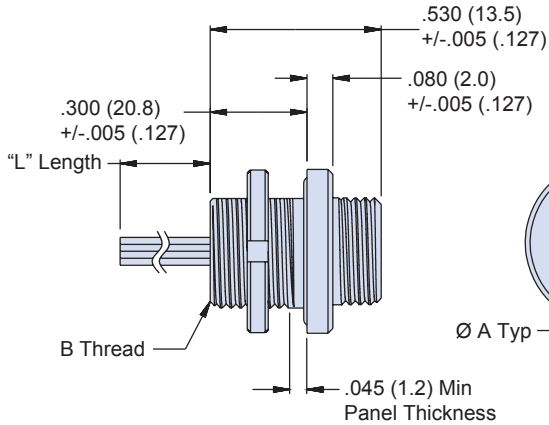


892-001 Circular Threaded, Front Panel Mount Receptacle Connector with Insulated Wire

Table II: Dimensions

892-001-01 Without Termination Platform

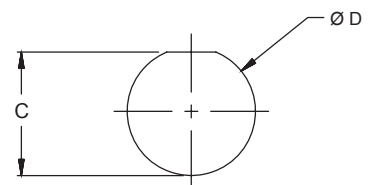
892-001-02 With Termination Platform



Size	Ø A +/- .005	B Thread
1-4	.489 (12.5)	M8.5 X 0.75-6g
1-7	.489 (12.5)	M8.5 X 0.75-6g
2-19	.528 (13.5)	M9.5 X 0.75-6g
3-37	.567 (14.5)	M10.5 X 0.75-6g
4-44	.627 (16.0)	M12.0 X 0.75-6g
4-55	.627 (16.0)	M12.0 X 0.75-6g

Table III: Front Panel Mount Panel Cut-Out

Size	C +.002 / -.001	Ø D +.002 / -.001
1-4	.320 (8.2)	.340 (8.7)
1-7	.320 (8.2)	.340 (8.7)
2-19	.359 (9.2)	.380 (9.7)
3-37	.399 (10.2)	.420 (10.7)
4-44	.457 (11.7)	.479 (12.2)
4-55	.457 (11.7)	.479 (12.2)

**Material/finish:**

- Shell/spanner nut/backshell - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plate

Dimensions in inches (millimeters) and are subject to change without notice.

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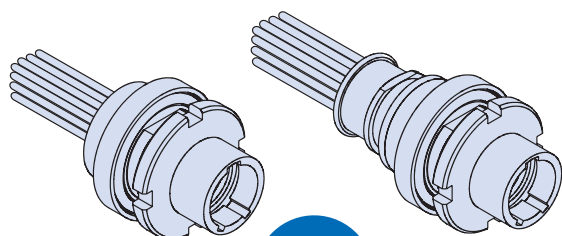
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892-002 Circular Breakaway, Rear Panel Mount Receptacle Connector with Insulated Wire



**MATES
WITH
892-007**

Glenair Rear Panel Mount Breakaway Receptacle

Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-007.

B

How To Order Circular Nano Connectors

Sample Part Number	892	-002	-02	1-7	N	A2	-0	A	7	-12
Series	892 - Nano Circular with Insulated Wire									
Shell Style	002 - Rear Panel Mount Breakaway Receptacle									
Accessory	01 - No Backshell 02 - With Backshell 03 - Overmolded 04 - Shrink Boot									
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table I									
Polarization	N - Normal A - Alternate									
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated									
Wire Gauge	0 - 30 AWG 2 - 32 AWG									
Wire Type	A - Ultralightweight XLETFE Insulation, Silver Coated Ultrahigh Strength Copper B - Extruded PTFE Insulation, Silver-Coated Copper NEMA HP3-ETX (MIL-W-16878/6) C - Cross Linked Modified ETFE Insulation, Silver Coated High Strength Copper. MIL-W-22759/33 (Not Available In #32 AWG)									
Wire Color	1 - White 2 - Yellow 7 - 10 Color repeating (Wire type A is striped, types B and C are solid colors)									
Wire Length (Inches)	12 = 12.00 + 1.00 Inches									

Table I: 892 Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Dimensions in inches (millimeters) and are subject to change without notice.



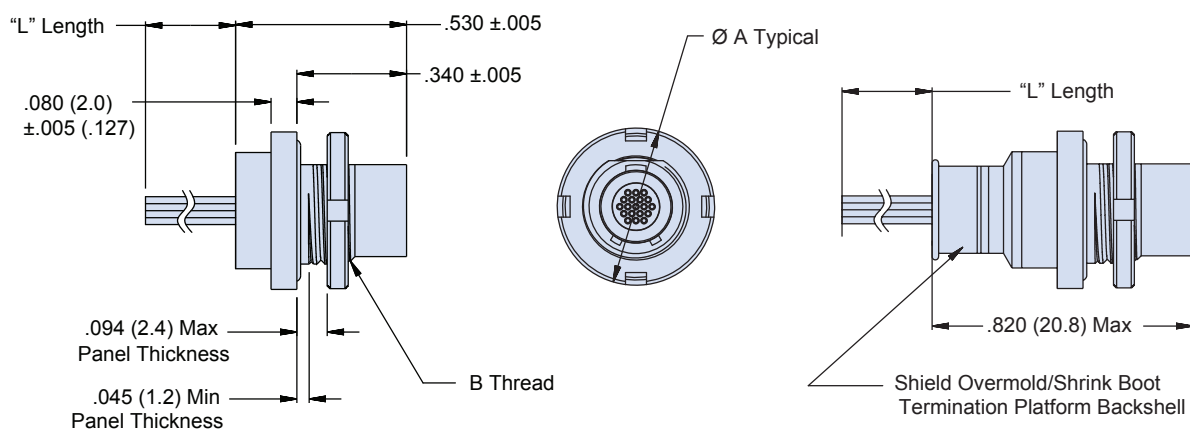
892-002

Circular Breakaway, Rear Panel Mount Receptacle Connector with Insulated Wire

Table II: Dimensions

892-002-01 Without Termination Platform

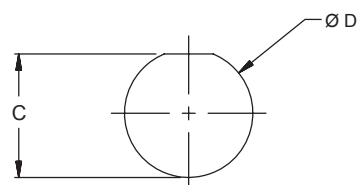
892-002-02 With Termination Platform



Size	Ø A $\pm .005$	B Thread
1-4	.429 (10.9)	M7.0 X 0.75-6g
1-7	.429 (10.9)	M7.0 X 0.75-6g
2-19	.488 (12.4)	M8.5 X 0.75-6g
3-37	.528 (13.4)	M9.5 X 0.75-6g
4-44	.546 (14.5)	M10.5 X 0.75-6g
4-55	.546 (14.5)	M10.5 X 0.75-6g

Table III: Rear Panel Mount Panel Cut-Out

Size	C $+.002 / -.001$	Ø D $+.002 / -.001$
1-4	.260 (6.6)	.280 (7.1)
1-7	.260 (6.6)	.280 (7.1)
2-19	.318 (8.1)	.340 (8.6)
3-37	.361 (9.2)	.378 (9.6)
4-44	.401 (10.2)	.420 (10.7)
4-55	.401 (10.2)	.420 (10.7)

**Material/finish:**

- Shell/spanner nut/backshell - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plate

Dimensions in inches (millimeters) and are subject to change without notice.

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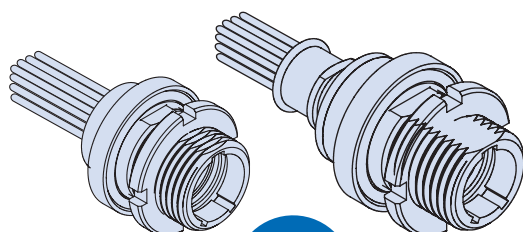
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892-003 Circular Threaded, Rear Panel Mount Receptacle Connector with Insulated Wire



**MATES
WITH
892-006**

Glenair Rear Panel Mount Threaded Coupling Receptacle Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Pre-Tinned Insulated Wire are coated with Sn63Pb37 tin-lead for excellent solderability.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-006.

B

How To Order Circular Nano Connectors

Sample Part Number	892	-003	-02	1-7	N	A2	-0	A	7	-12
Series	892 - Nano Circular with Insulated Wire									
Shell Style	003 - Rear Panel Mount Threaded Coupling Receptacle									
Accessory	01 - No Backshell 02 - With Backshell 03 - Overmolded 04 - Shrink Boot									
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table I									
Polarization	N - Normal A - Alternate									
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated									
Wire Gauge	0 - 30 AWG 2 - 32 AWG									
Wire Type	A - Ultralightweight XLETFE insulation, silver coated ultrahigh strength copper B - Extruded PTFE insulation, silver-coated copper NEMA HP3-ETX (MIL-W-16878/6) C - Cross linked modified ETFE insulation, silver coated high strength copper. MIL-W-22759/33 (not available in #32 AWG)									
Wire Color	1 - White 2 - Yellow 7 - 10 Color repeating (Wire type A is striped, types B and C are solid colors)									
Wire Length (Inches)	12 = 12.00 + 1.00 Inches									

Table I: 892 Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Dimensions in inches (millimeters) and are subject to change without notice.

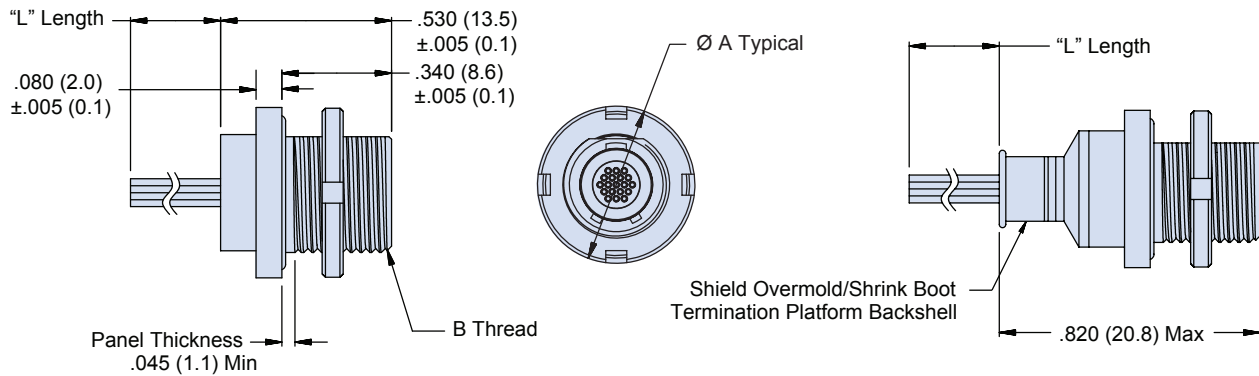
892-003

Circular Threaded, Rear Panel Mount Receptacle Connector with Insulated Wire

Table II: Dimensions

892-003-01 Without Termination Platform

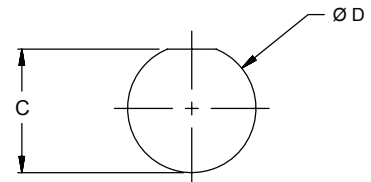
892-003-02 With Termination Platform



Size	Ø A +/- .005	B Thread
1-4	.429 (10.9)	M7.0 X 0.75-6g
1-7	.429 (10.9)	M7.0 X 0.75-6g
2-19	.488 (12.4)	M8.5 X 0.75-6g
3-37	.528 (13.4)	M9.5 X 0.75-6g
4-44	.567 (14.5)	M10.5 X 0.75-6g
4-55	.567 (14.5)	M10.5 X 0.75-6g

Table III: Rear Panel Mount Panel Cut-Out

Size	C +.002 / -.001	ØD +.002 / -.001
1-4	.260 (6.6)	.280 (7.1)
1-7	.260 (6.6)	.280 (7.1)
2-19	.318 (8.1)	.340 (8.7)
3-37	.361 (9.2)	.378 (9.6)
4-44	.401 (10.2)	.420 (10.7)
4-55	.401 (10.2)	.420 (10.7)

**Material/finish:**

- Shell/spanner nut/backshell - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plate

Dimensions in inches (millimeters) and are subject to change without notice.

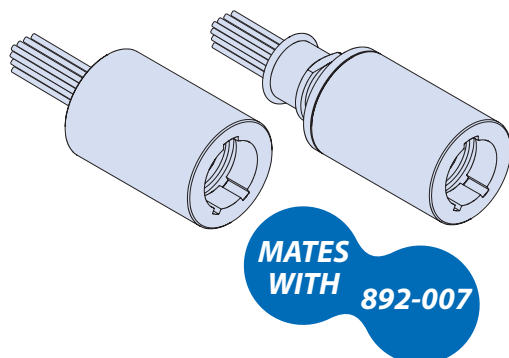
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892-004 Circular Breakaway, Inline Receptacle Connector with Insulated Wire



Glenair Inline Breakaway Receptacle Connectors

feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-007.

How To Order Circular Nano Connectors

Sample Part Number	892	-004	-02	1-7	N	A2	-0	A	7	-12
Series	892 - Nano Circular with Insulated Wire									
Shell Style	004 - In-Line Breakaway Receptacle									
Accessory	01 - No Backshell 02 - With Backshell 03 - Overmolded 04 - Shrink Boot									
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table I									
Polarization	N - Normal A - Alternate									
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated									
Wire Gauge	0 - 30 AWG -2 - 32 AWG									
Wire Type	A - Ultralightweight XLETFE insulation, silver coated ultrahigh strength copper B - Extruded PTFE insulation, silver-coated copper NEMA HP3-ETX (MIL-W-16878/6) C - Cross linked modified ETFE insulation, silver coated high strength copper. MIL-W-22759/33 (not available in #32 AWG)									
Wire Color	1 - White 2 - Yellow 7 - 10 Color repeating (Wire type A is striped, types B and C are solid colors)									
Wire Length (Inches)	12 = 12.00 + 1.00 Inches									

Table I: 892 Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Dimensions in inches (millimeters) and are subject to change without notice.

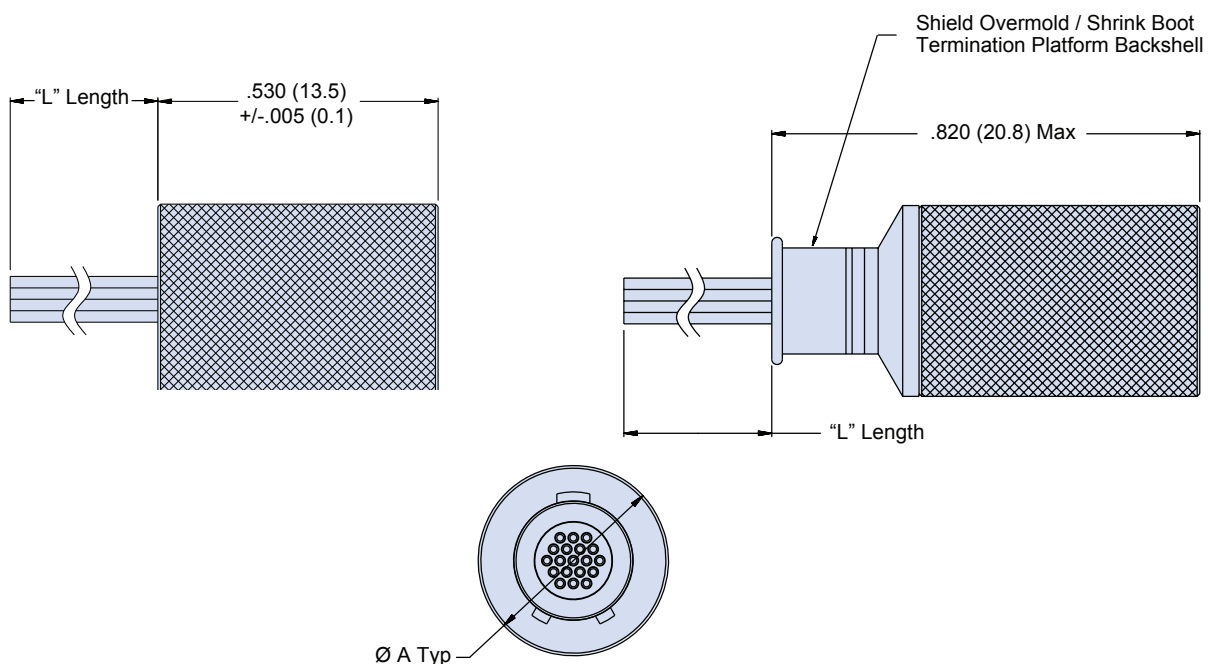


892-004 Circular Breakaway, Inline Receptacle Connector with Insulated Wire

Table II: Dimensions

892-004-01 Without Termination Platform

892-004-02 With Termination Platform



Size	Ø A +/- .005
1-4	.310 (7.9)
1-7	.310 (7.9)
2-19	.360 (9.1)
3-37	.411 (10.4)
4-44	.443 (11.3)
4-55	.443 (11.3)

Material/finish:

- Shell/spanner nut/backshell - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plate

Dimensions in inches (millimeters) and are subject to change without notice.

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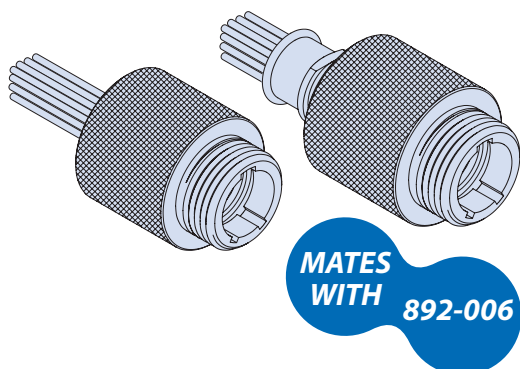
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892-005 Circular Threaded, Inline Receptacle Connector with Insulated Wire



Glenair Inline Threaded Coupling Receptacle

Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-006.

How To Order Circular Nano Connectors

Sample Part Number	892	-005	-02	1-7	N	A2	-0	A	7	-12
Series	892 - Nano Circular With Insulated Wire									
Shell Style	005 - In-Line Threaded Coupling Receptacle									
Accessory	01 - No Backshell 02 - With Backshell 03 - Overmolded 04 - Shrink Boot									
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table I									
Polarization	N - Normal A - Alternate									
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated									
Wire Gauge	0 - 30 AWG 2 - 32 AWG									
Wire Type	A - Ultralightweight XLETFE insulation, silver coated ultrahigh strength copper B - Extruded PTFE insulation, silver-coated copper NEMA HP3-ETX (MIL-W-16878/6) C - Cross linked modified ETFE insulation, silver coated high strength copper. MIL-W-22759/33 (not available in #32 AWG)									
Wire Color	1 - White 2 - Yellow 7 - 10 Color repeating (Wire type A is striped, types B and C are solid colors)									
Wire Length (Inches)	12 = 12.00 + 1.00 Inches									

Table I: 892 Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Dimensions in inches (millimeters) and are subject to change without notice.

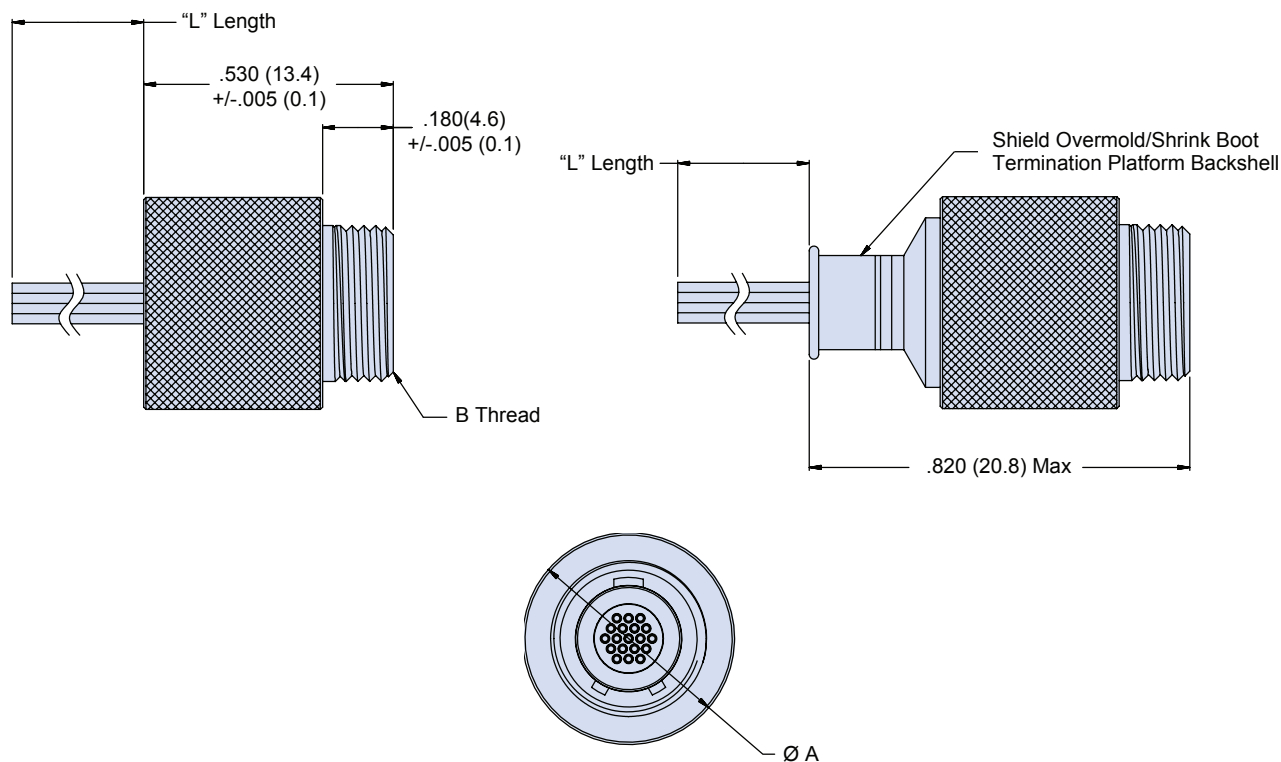


892-005 Circular Threaded, Inline Receptacle Connector with Insulated Wire

Table II: Dimensions

892-005-01 Without Termination Platform

892-005-02 With Termination Platform



Size	Ø A +/- .005	B Thread
1-4	.425 (10.8)	M7.0 x 0.75 - 6g
1-7	.425 (10.2)	M7.0 x 0.75 - 6g
2-19	.475 (12.1)	M8.5 x 0.75 - 6g
3-37	.526 (13.4)	M9.5 x 0.75 - 6g
4-44	.558 (14.2)	M10.5 x 0.75 - 6g
4-55	.558 (14.2)	M10.5 x 0.75 - 6g

Material/finish:

- Shell/spanner nut/backshell - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plate

Dimensions in inches (millimeters) and are subject to change without notice.

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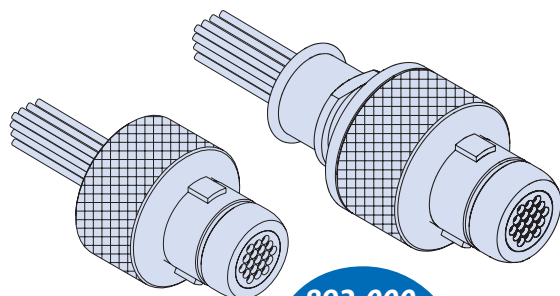
Series 89 Nano Catalog

U.S. CAGE Code 06324/0CA77

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892-007 Circular Breakaway, Plug Connector with Insulated Wire



MATES WITH
892-000,
892-002,
892-004,
893-008,
893-010

Glenair Breakaway Plug Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with 892-000, 892-002, 892-004, 893-008, and 893-010 breakaway receptacle connectors.

B

How To Order Circular Nano Connectors

Sample Part Number	892	-007	-02	1-7	N	A2	-0	A	7	-12
Series	892 - Nano Circular With Insulated Wire									
Shell Style	-007 - Breakaway Plug									
Accessory	-01 - No Backshell -02 - With Backshell -03 - Overmolded -04 - Shrink Boot									
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts- 4-55 - Shell Size 4 with 55 contacts See Table I									
Polarization	N - Normal A - Alternate									
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated									
Wire Gauge	-0 - 30 AWG -2 - 32 AWG									
Wire Type	A - Ultralightweight XLETFE insulation, silver coated ultrahigh strength copper B - Extruded PTFE insulation, silver-coated copper NEMA HP3-ETX (MIL-W-16878/6) C - Cross linked modified ETFE insulation, silver coated high strength copper. MIL-W-22759/33 (not available in #32 AWG)									
Wire Color	1 - White 2 - Yellow 7 - 10 Color repeating (Wire type A is striped, types B and C are solid colors)									
Wire Length (Inches)	-12 = 12.00 + 1.00 Inches									

Table I: 892 Circular Plug Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

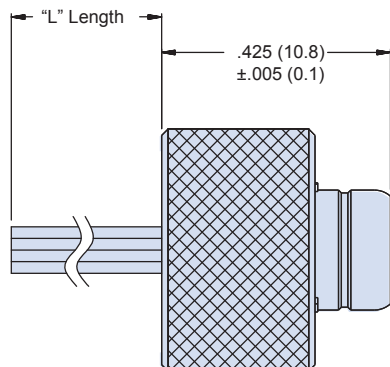
Dimensions in inches (millimeters) and are subject to change without notice.

892-006

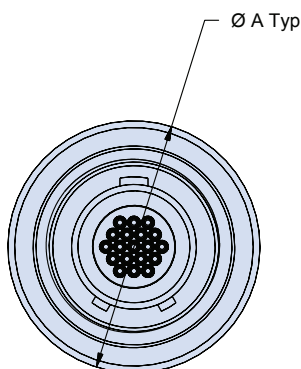
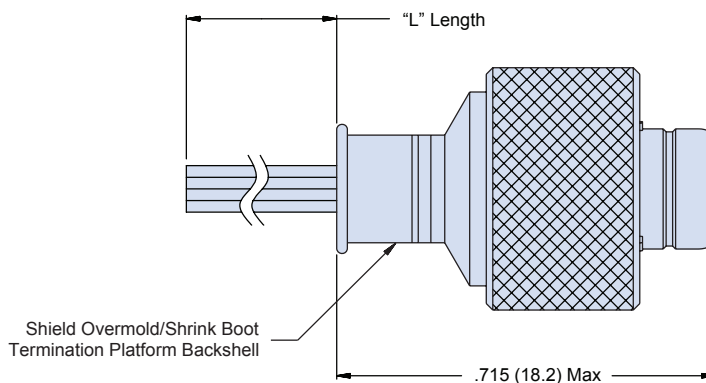
Circular Threaded, Plug Connector with Insulated Wire

Table II: Dimensions

892-006-01 Without Termination Platform



892-006-02 With Termination Platform



Size	Ø A +/- .005
1-4	.425 (10.8)
1-7	.425 (10.8)
2-19	.479 (12.2)
3-37	.526 (13.4)
4-44	.598 (15.1)
4-55	.598 (15.1)

Material/Finish:

- Shell/coupling ring/backshell - see part number breakdown
- Insulator - LCP/na
- Pin contacts - gold alloy
- Snap ring - stainless steel/passivated

Dimensions in inches (millimeters) and are subject to change without notice.

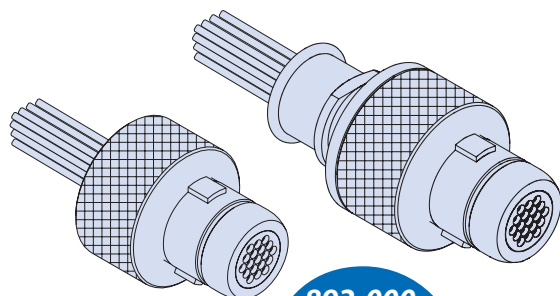
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Series 89 Nano Catalog

U.S. CAGE Code 06324/0CA77

Printed in U.S.A.

892-007 Circular Breakaway, Plug Connector with Insulated Wire



**892-000,
892-002,
892-004,
893-008,
893-010**
**MATES
WITH**

Glenair Breakaway Plug Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with 892-000, 892-002, 892-004, 893-008, and 893-010 breakaway receptacle connectors.

B

How To Order Circular Nano Connectors

Sample Part Number	892	-007	-02	1-7	N	A2	-0	A	7	-12
Series	892 - Nano Circular With Insulated Wire									
Shell Style	-007 - Breakaway Plug									
Accessory	-01 - No Backshell -02 - With Backshell -03 - Overmolded -04 - Shrink Boot									
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table I									
Polarization	N - Normal A - Alternate									
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated									
Wire Gauge	-0 - 30 AWG -2 - 32 AWG									
Wire Type	A - Ultralightweight XLETFE insulation, silver coated ultrahigh strength copper B - Extruded PTFE insulation, silver-coated copper NEMA HP3-ETX (MIL-W-16878/6) C - Cross linked modified ETFE insulation, silver coated high strength copper. MIL-W-22759/33 (not available in #32 AWG)									
Wire Color	1 - White 2 - Yellow 7 - 10 Color repeating (Wire type A is striped, types B and C are solid colors)									
Wire Length (Inches)	-12 = 12.00 + 1.00 Inches									

Table I: 892 Circular Plug Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Dimensions in inches (millimeters) and are subject to change without notice.

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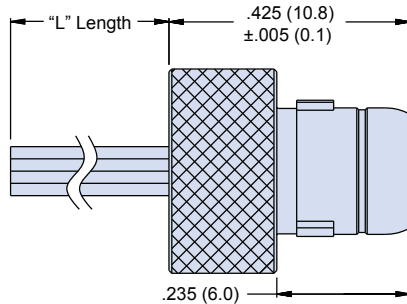
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www.glenair.com **B-15** **E-Mail: sales@glenair.com**

892-007

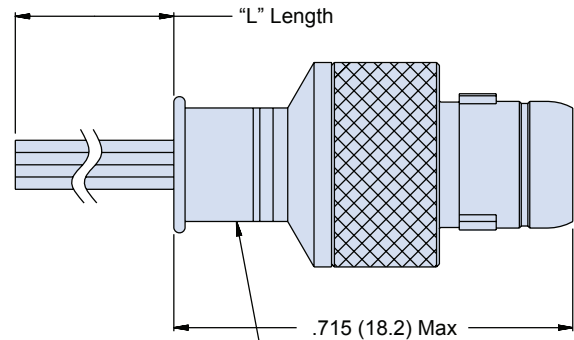
Circular Breakaway, Plug Connector with Insulated Wire

Table II: Dimensions

892-007-01 Without Termination Platform

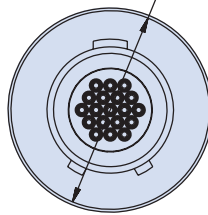


892-007-02 With Termination Platform



Shield Overmold/Shrink Boot
Termination Platform Backshell

Ø A Typ



Size	Ø A +/- .005
1-4	.310 (7.9)
1-7	.310 (7.9)
2-19	.360 (9.1)
3-37	.411 (10.4)
4-44	.443 (11.3)
4-55	.443 (11.3)

Material/Finish:

- Shell/backshell - see part number breakdown
- Insulator - LCP/na
- Pin contacts - gold alloy

Dimensions in inches (millimeters) and are subject to change without notice.

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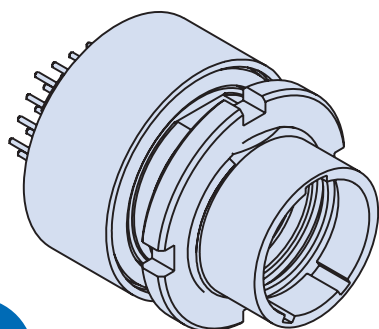
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893-008 Circular Breakaway, Rear Panel Mount Receptacle Connector with Straight PCB Termination



**MATES
WITH** 892-007

Glenair Rear Panel Mount Breakaway Receptacle

Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-007 plug connectors.

Pre-Tinned PC Tails are coated with Sn63-Pb37 tin-lead for excellent solderability.

Material/Finish:

- Shell/spanner nut - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - flourosilicone/na
- Internal latching spring - stainless steel/gold plated
- PCB tray(s) - LCP/na
- PC tails - copper alloy/pre-tinned Sn63/Pb37

C

How To Order Circular Nano Connectors

Sample Part Number	893	-008	1-7	N	A2	-0	D3	-S1
Series	893 - Nano Circular with PCB Termination							
Shell Style	008 - Rear Panel Mount Breakaway Receptacle							
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table I							
Polarization	N - Normal A - Alternate							
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated							
Wire Gauge	0 - 30 AWG							
Wire Type	D3 - Single Strand Copper Alloy Wire Uninsulated, Pre-tinned							
PC Tail Length (inches)	S1 - .080" Straight Lead S2 - .110" Straight Lead S3 - .140" Straight Lead S4 - .170" Straight Lead							

Table I: 893 Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Dimensions in inches (millimeters) and are subject to change without notice.

893-008

Circular Breakaway, Rear Panel Mount Receptacle Connector with Straight PCB Termination

Table II: Dimensions

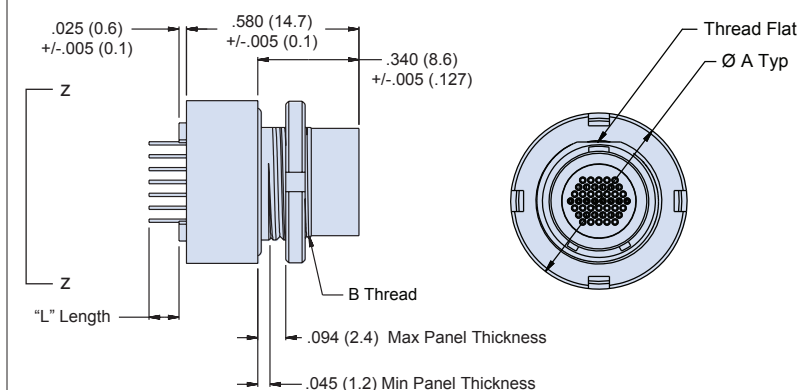
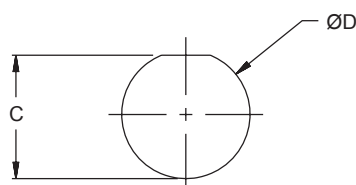


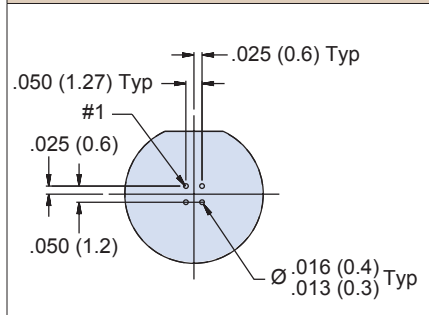
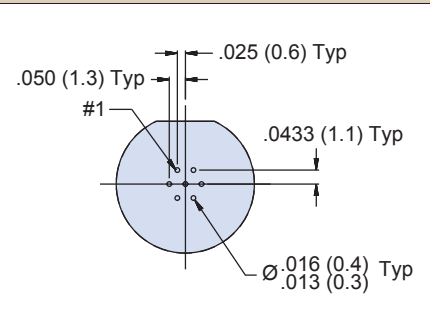
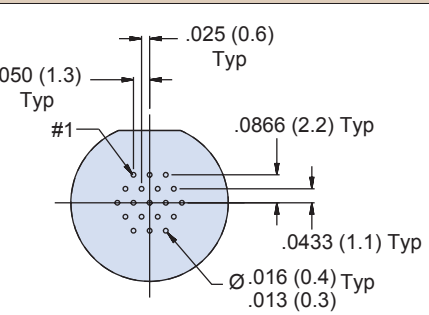
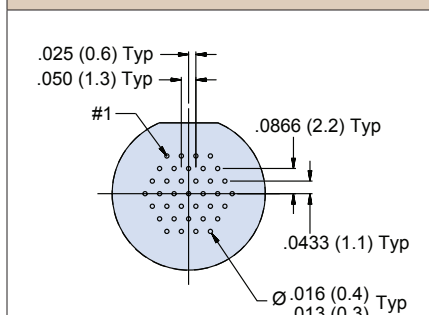
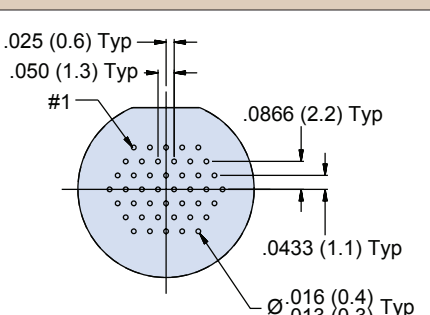
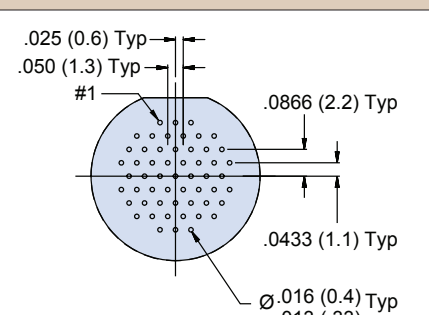
Table III: Rear Panel Mount Panel Cut-Out



Size	Ø A +/- .005	B Thread
1-4	.429 (10.9)	M7.0 x 0.75 - 6g
1-7	.429 (10.9)	M7.0 x 0.75 - 6g
2-19	.488 (12.4)	M8.5 x 0.75 - 6g
3-37	.528 (13.4)	M9.5 x 0.75 - 6g
4-44	.567 (14.5)	M10.5 x 0.75 - 6g
4-55	.567 (14.5)	M10.5 x 0.75 - 6g

Size	C +.002/- .001	Ø D +.002/- .001
1-4	.260 (6.7)	.280 (7.1)
1-7	.260 (6.7)	.280 (7.1)
2-19	.318 (7.8)	.340 (8.7)
3-37	.361 (9.2)	.378 (9.6)
4-44	.401 (10.2)	.398 (10.7)
4-55	.401 (10.2)	.398 (10.7)

Table IV: Recommended PCB Arrangements Per View Z ←→ Z

Size 1-4	Size 1-7	Size 2-19
		
Size 3-37	Size 4-44	Size 4-55
		

Dimensions in inches (millimeters) and are subject to change without notice.

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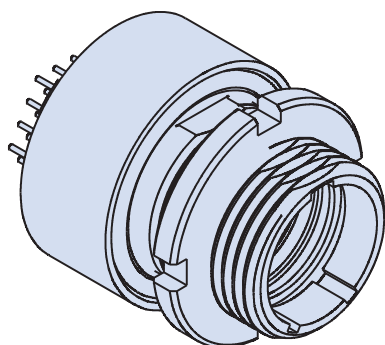
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893-009 Circular Threaded, Rear Panel Mount Receptacle Connector with Straight PCB Termination



**MATES
WITH 892-006**

Glenair Rear Panel Mount Threaded Coupling

Receptacle Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-006 plug connectors.

Pre-Tinned PC Tails are coated with Sn63-Pb37 tin-lead for excellent solderability.

Material/Finish:

- Shell/spanner nut - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plated
- PCB tray(s) - LCP/na
- PC tails - copper alloy/pre-tinned Sn63/Pb37

C

How To Order Circular Nano Connectors

Sample Part Number	893	-009	1-7	N	A2	-0	D3	-S1
Series	893 - Nano Circular with PCB Termination							
Shell Style	-009 - Rear Panel Mount Threaded Coupling Receptacle							
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table I							
Polarization	N - Normal A - Alternate							
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated							
Wire Gauge	-0 - 30 AWG							
Wire Type	D3 - Single Strand Copper Alloy Wire Uninsulated, Pre-tinned							
PC Tail Length (inches)	-S1 - .080" Straight Lead -S2 - .110" Straight Lead -S3 - .140" Straight Lead -S4 - .170" Straight Lead							

Table 1: Circular Receptacle Mating Face Views

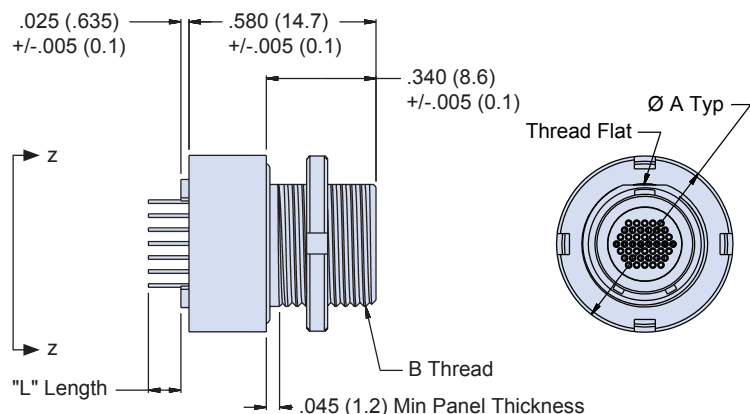
Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Dimensions in inches (millimeters) and are subject to change without notice.

893-009

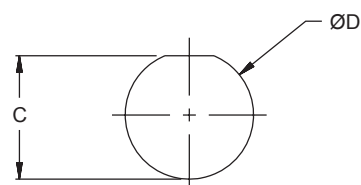
Circular Threaded, Rear Panel Mount Receptacle Connector with Straight PCB Termination

Table II: Dimensions



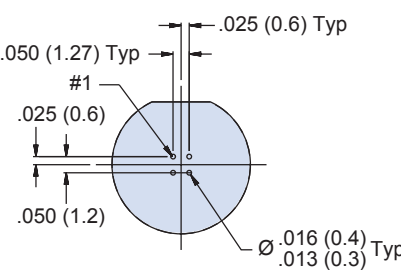
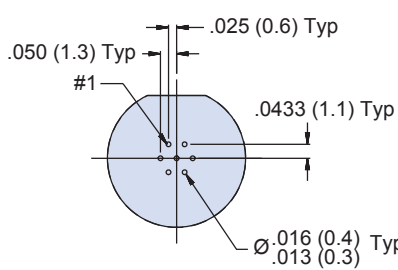
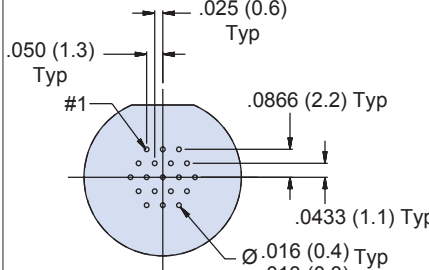
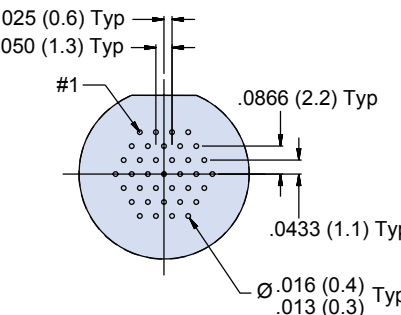
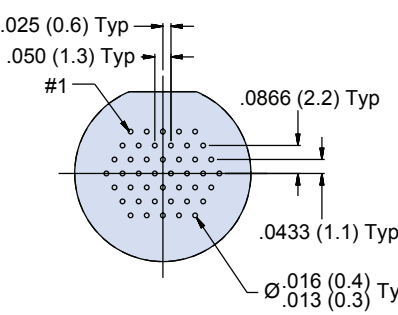
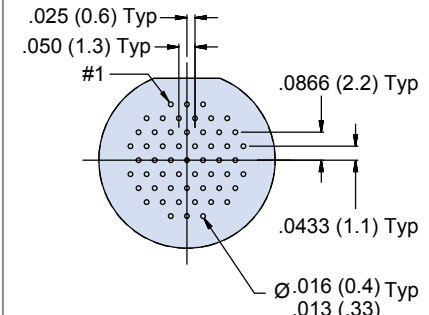
Size	Ø A +/- .005	B Thread
1-4	.429 (10.9)	M7.0 x 0.75 - 6g
1-7	.429 (10.9)	M7.0 x 0.75 - 6g
2-19	.488 (12.4)	M8.5 x 0.75 - 6g
3-37	.528 (13.4)	M9.5 x 0.75 - 6g
4-44	.567 (14.5)	M10.5 x 0.75 - 6g
4-55	.567 (14.5)	M10.5 x 0.75 - 6g

Table III: Rear Panel Mount Panel Cut-Out



Size	C +.002 / -.001	Ø D +.002 / -.001
1-4	.260 (6.7)	.280 (7.1)
1-7	.260 (6.7)	.280 (7.1)
2-19	.318 (7.8)	.340 (8.7)
3-37	.361 (9.2)	.378 (9.6)
4-44	.401 (10.2)	.470 (10.7)
4-55	.401 (10.2)	.470 (10.7)

Table IV : Recommended PCB Layouts Per View Z ↔ Z

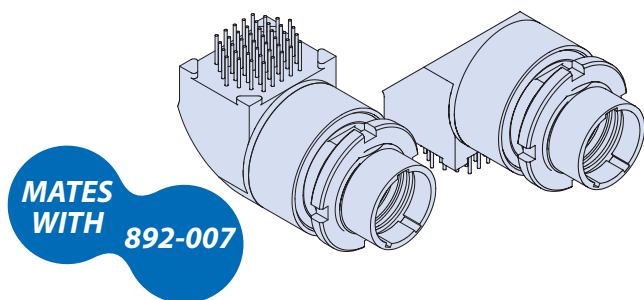
Size 1-4	Size 1-7	Size 2-19
		
Size 3-37	Size 4-44	Size 4-55
		

Dimensions in inches (millimeters) and are subject to change without notice.

893-010 Circular Breakaway, Rear Panel Mount Receptacle Connector with Right Angle PCB Termination



Circular
Nanominatures



Glenair Rear Panel Mount Breakaway Right Angle PCB Connectors feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are intermateable with nanominiature plug connectors 892-007 plug connectors.

Pre-Tinned PC Tails are coated with Sn63-Pb37 tin-lead for excellent solderability.

How To Order Circular Nano Connectors

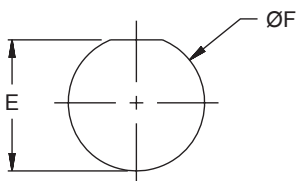
Sample Part Number	893	-010	-1-7	N	A2	-0	D3	-T1
Series	893 - Nano Circular with PCB Termination							
Shell Style	010 - Rear Panel Mount Breakaway Receptacle							
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 3-37 - Shell Size 3 with 37 contacts 1-7 - Shell Size 1 with 7 contacts 4-44 - Shell Size 4 with 44 contacts 2-19 - Shell Size 2 with 19 contacts 4-55 - Shell Size 4 with 55 contacts See Table 1							
Polarization	N - Normal A - Alternate							
Shell Material/Finish	A2 - Aluminum/Electroless Nickel S1 - Stainless Steel/Zinc Cobalt (Black) A5 - Aluminum/Gold Over Nickel S2 - Stainless Steel/Passivated							
Wire Gauge	0 - 30 AWG							
Wire Type	D3 - Single Strand Copper Alloy Wire Uninsulated, Pre-tinned							
90 Degree PC Tail Length (inches)	T1 - .080 Lead Top T2 - .110 Lead Top	T3 - .140 Lead Top T4 - .170 Lead Top	B1 - .080 Lead Bottom B2 - .110 Lead Bottom	B3 - .140 Lead Bottom B4 - .170 Lead Bottom				

Table I: Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Table II: Rear Panel Mount Panel Cut-Out

Size	E +.002 / -.001	Ø F +.002 / -.001
1-4	.260 (6.7)	.280 (7.1)
1-7	.260 (6.7)	.280 (7.1)
2-19	.318 (7.8)	.338 (8.6)
3-37	.361 (9.2)	.378 (9.6)
4-44	.401 (10.2)	.398 (10.1)
4-55	.401 (10.2)	.398 (10.1)



Material/Finish:

- Shell/spanner nut - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plated
- PCB tray(s) - LCP/na
- PC tails - copper alloy/pre-tinned Sn63/Pb37

Dimensions in inches (millimeters) and are subject to change without notice.

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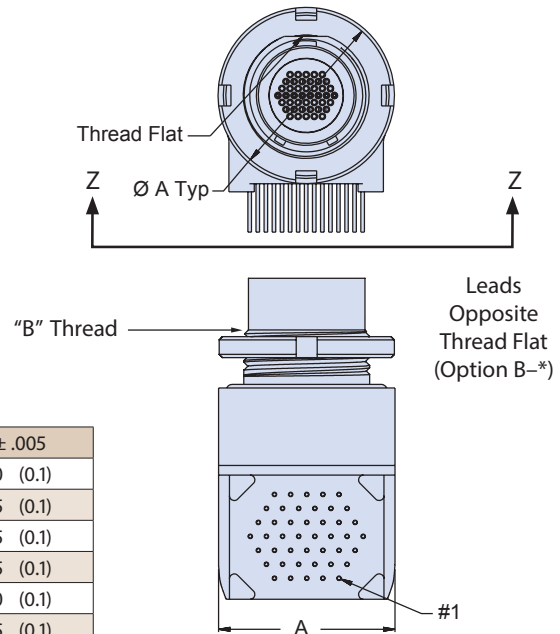
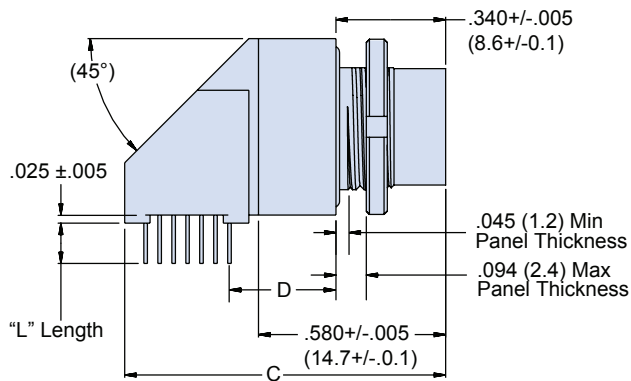
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893-010

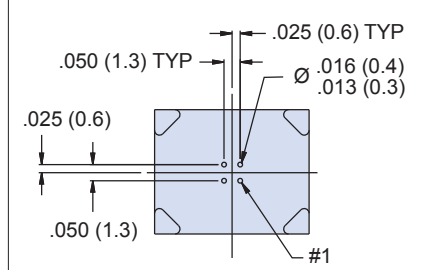
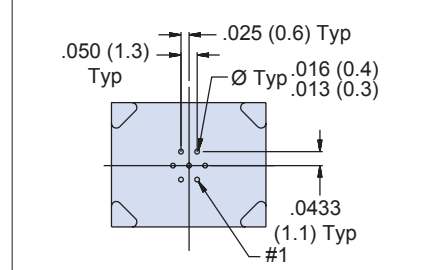
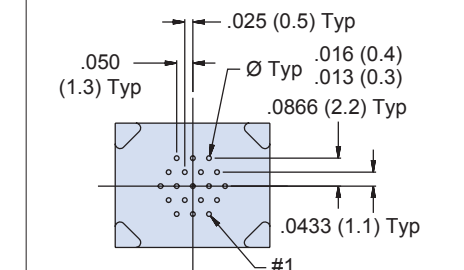
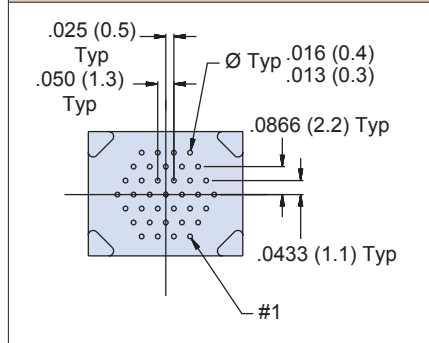
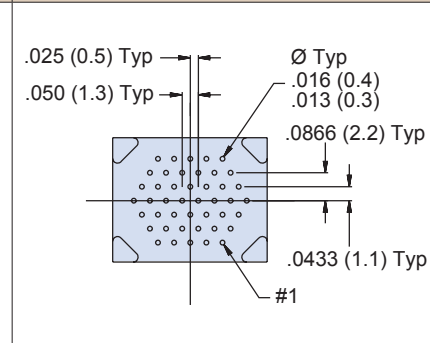
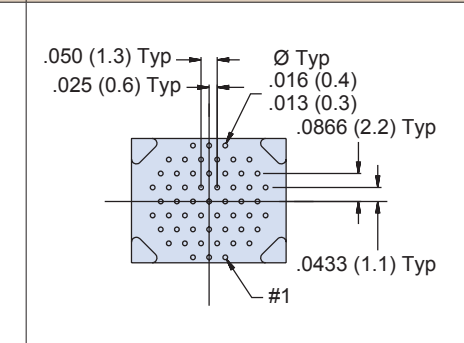
Circular Breakaway, Rear Panel Mount Receptacle Connector with Right Angle PCB Termination

Table III: Right Angle Bottom Lead Dimensions



Size	Ø A +/- .005	B Thread	C +/- .020	D ± .005
1-4	.429 (10.9)	M7.0 x 0.75 - 6g	.832 (0.7)	.350 (0.1)
1-7	.429 (10.9)	M7.0 x 0.75 - 6g	.832 (0.7)	.335 (0.1)
2-19	.488 (12.4)	M8.5 x 0.75 - 6g	.918 (0.8)	.335 (0.1)
3-37	.528 (13.4)	M9.5 x 0.75 - 6g	1.005 (1.0)	.335 (0.1)
4-44	.567 (14.5)	M10.5 x 0.75 - 6g	1.005 (1.0)	.330 (0.1)
4-55	.567 (14.5)	M10.5 x 0.75 - 6g	1.092 (1.2)	.335 (0.1)

Table IV: Recommended PCB Layout View Per View Z ↔ Z

Size 1-4	Size 1-7	Size 2-19
		
Size 3-37	Size 4-44	Size 4-55
		

Dimensions in inches (millimeters) and are subject to change without notice.

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893-010 Circular Breakaway, Rear Panel Mount Receptacle Connector with Right Angle PCB Termination



Table V: Right Angle Top Lead Dimensions

Size	Ø A $\pm .005$	B Thread	C $\pm .020$	D $\pm .005$
1-4	.429 (10.9)	M7.0 x 0.75 - 6g	.832 (21.1)	.350 (8.9)
1-7	.429 (10.9)	M7.0 x 0.75 - 6g	.832 (21.1)	.335 (8.5)
2-19	.488 (12.4)	M8.5 x 0.75 - 6g	.918 (23.3)	.335 (8.5)
3-37	.528 (13.4)	M9.5 x 0.75 - 6g	1.005 (25.5)	.335 (8.5)
4-44	.567 (14.5)	M10.5 x 0.75 - 6g	1.005 (25.5)	.330 (8.4)
4-55	.567 (14.5)	M10.5 x 0.75 - 6g	1.092 (27.7)	.335 (8.5)

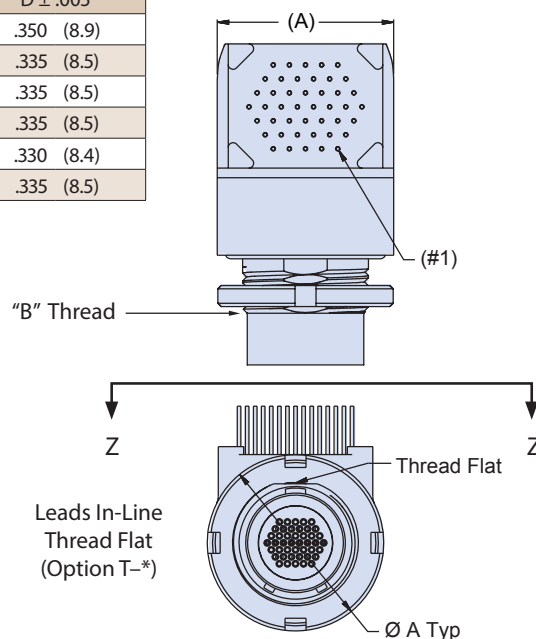
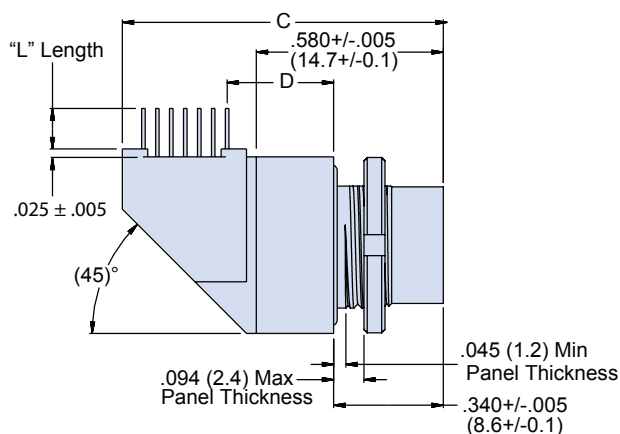


Table VI: Recommended PCB Layout Per View Z $\longleftrightarrow$ Z

Size 1-4	Size 1-7	Size 2-19
Size 3-37	Size 4-44	Size 4-55

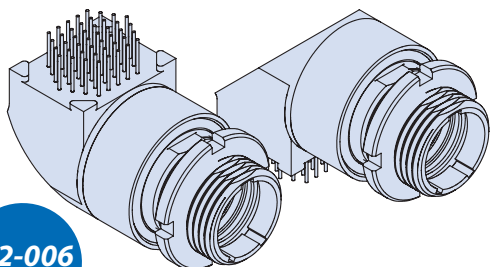
Dimensions in inches (millimeters) and are subject to change without notice.



893-011

Circular Threaded, Rear Panel Mount Receptacle Connector with Right Angle PCB Termination

**MATES
WITH**
892-006



Glenair Rear Panel Mount Threaded Right Angle PCB Connectors

feature gold alloy TwistPin contacts, offering premium performance and reliability for demanding applications. Available with or without backshell, overmolded or shrink boot.

Choose Aluminum or Stainless Steel Shells in 6 layouts from 4 to 55 contacts. These connectors are interchangeable with nanominiature plug connectors 892-006 plug connectors.

Pre-Tinned PC Tails are coated with Sn63-Pb37 tin-lead for excellent solderability.

How To Order Circular Nano Connectors

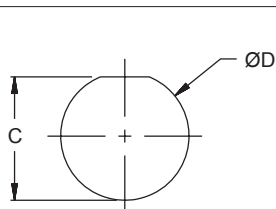
Sample Part Number	893	-011	-1-7	N	A2	-0	D3	-T1
Series	893 - Nano Circular with PCB Termination							
Shell Style	011 - Rear Panel Mount Threaded Coupling Receptacle							
Shell Size/Contact Arrangement	1-4 - Shell Size 1 with 4 contacts 1-7 - Shell Size 1 with 7 contacts 2-19 - Shell Size 2 with 19 contacts See Table 1							
Polarization	N - Normal A - Alternate							
Shell Material/Finish	A2 - Aluminum/Electroless Nickel A5 - Aluminum/Gold Over Nickel S1 - Stainless Steel/Zinc Cobalt (Black) S2 - Stainless Steel/Passivated							
Wire Gauge	0 - 30 AWG							
Wire Type	D3 - Single Strand Copper Alloy Wire Uninsulated, Pre-tinned							
90 Degree PC Tail Length (inches)	T1 - .080" Lead Top T2 - .110" Lead Top T3 - .140" Lead Top T4 - .170" Lead Top B1 - .080" Lead Bottom B2 - .110" Lead Bottom B3 - .140" Lead Bottom B4 - .170" Lead Bottom							

Table 1: Circular Receptacle Mating Face Views

Size 1-4 4 Contacts	Size 1-7 7 Contacts	Size 2-19 19 Contacts	Size 3-37 37 Contacts	Size 4-44 44 Contacts	Size 4-55 55 Contacts

Table 2: Rear Panel Mount Panel Cut-out

Size	C +.002 / -.001	Ø S +.002 / -.001
1-4	.260 (6.7)	.280 (7.1)
1-7	.260 (6.7)	.280 (7.1)
2-19	.318 (7.8)	.340 (8.7)
3-37	.361 (9.2)	.378 (9.6)
4-44	.401 (10.2)	.398 (10.7)
4-55	.401 (10.2)	.398 (10.7)



Material/Finish:

- Shell/spanner nut - see part number breakdown
- Insulator - LCP/na
- Socket contacts - gold alloy
- O-rings - fluorosilicone/na
- Internal latching spring - stainless steel/gold plated
- PCB tray(s) - LCP/na
- PC tails - copper alloy/pre-tinned Sn63-Pb37

Dimensions in inches (millimeters) and are subject to change without notice.

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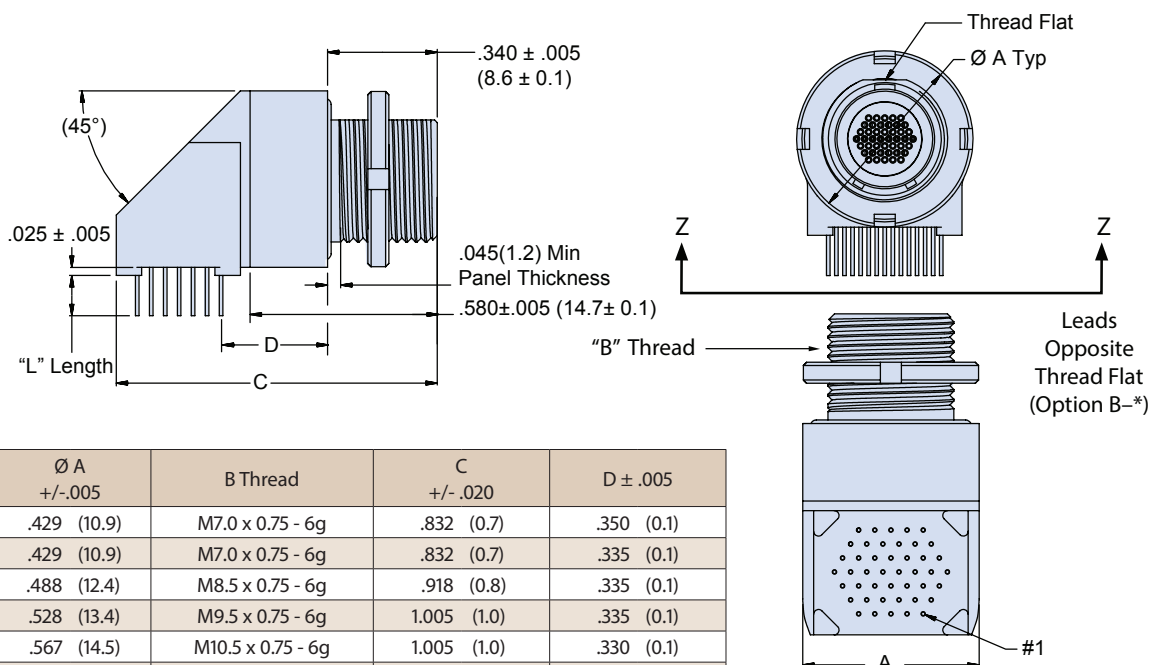
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893-011 Circular Threaded, Rear Panel Mount Receptacle Connector with Right Angle PCB Termination



Table III: Dimensions for Bottom Lead Configuration



Size	Ø A +/- .005	B Thread	C +/- .020	D ± .005
1-4	.429 (10.9)	M7.0 x 0.75 - 6g	.832 (0.7)	.350 (0.1)
1-7	.429 (10.9)	M7.0 x 0.75 - 6g	.832 (0.7)	.335 (0.1)
2-19	.488 (12.4)	M8.5 x 0.75 - 6g	.918 (0.8)	.335 (0.1)
3-37	.528 (13.4)	M9.5 x 0.75 - 6g	1.005 (1.0)	.335 (0.1)
4-44	.567 (14.5)	M10.5 x 0.75 - 6g	1.005 (1.0)	.330 (0.1)
4-55	.567 (14.5)	M10.5 x 0.75 - 6g	1.092 (1.2)	.335 (0.1)

Table IV: Recommended PCB Layouts Per View Z ↔ Z

Size 1-4	Size 1-7	Size 2-19
Size 3-37	Size 4-44	Size 4-55

Dimensions in inches (millimeters) and are subject to change without notice.

893-011

Circular Threaded, Rear Panel Mount Receptacle Connector with Right Angle PCB Termination

Table V: Top Lead Dimensions

Size	Ø A +/- .005	B Thread	C +/- .020
1-4	.429 (10.9)	M7.0 x 0.75 - 6g	.832 (0.7)
1-7	.429 (10.9)	M7.0 x 0.75 - 6g	.832 (0.7)
2-19	.488 (12.4)	M8.5 x 0.75 - 6g	.918 (0.8)
3-37	.528 (13.4)	M9.5 x 0.75 - 6g	1.005 (1.0)
4-44	.567 (14.5)	M10.5 x 0.75 - 6g	1.005 (1.0)
4-55	.567 (14.5)	M10.5 x 0.75 - 6g	1.092 (1.2)

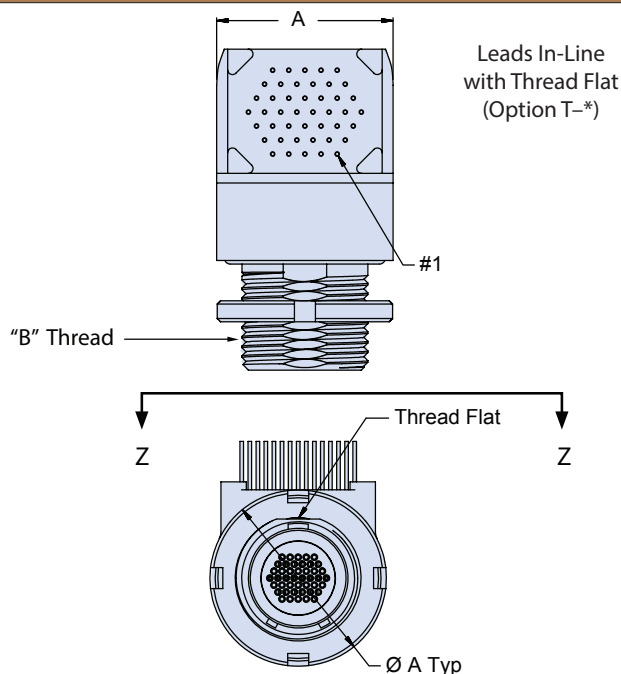
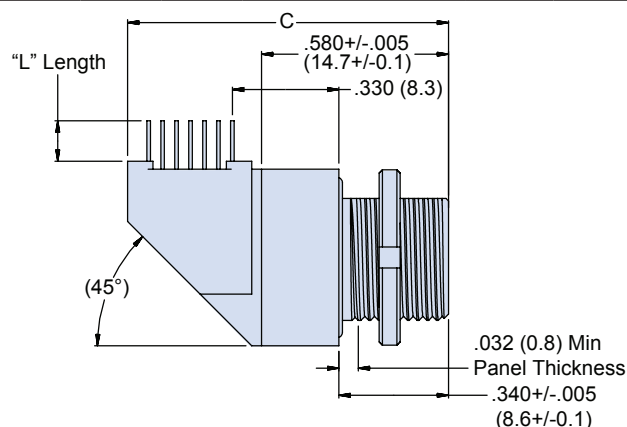
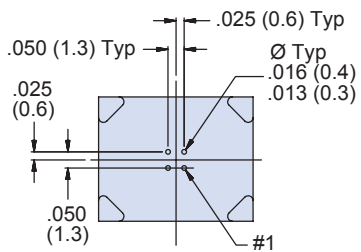
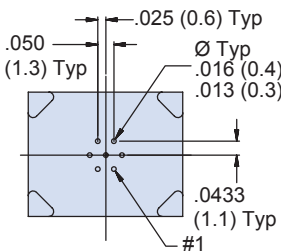
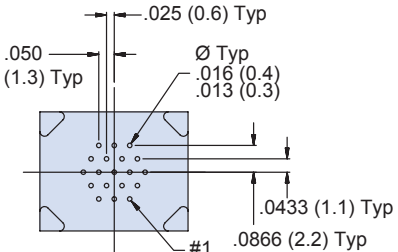
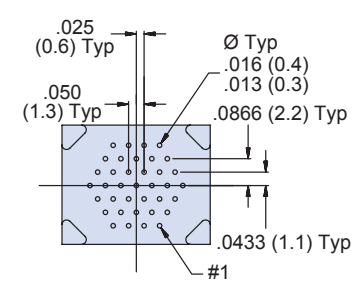
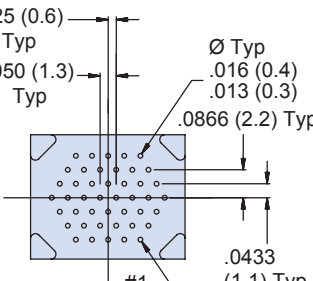
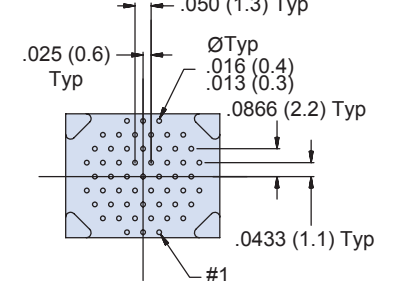


Table VI: Recommended PCB Layouts Per View Z ↔ Z

Size 1-4	Size 1-7	Size 2-19
		
Size 3-37	Size 4-44	Size 4-55
		

Dimensions in inches (millimeters) and are subject to change without notice.