Glenair®





SERIES 88

SUPERFLY®



ULTRAMINIATURE CONNECTORS AND CORDSETS

APRIL 2015

Cover Photo Credit: US Army. SPC Rebecca Buck



SuperFly®

THE ULTIMATE NANOMINIATURE TACTICAL CONNECTOR



Quick-Disconnect (QDC) and threaded coupling cable connectors with pigtail wires, rugged overmolding, polyurethane jacketing or nylon overbraid



Quick-Disconnect (QDC) and threaded coupling panel mounted connectors with pigtail wires, PCB or solder cup terminations



Ready for the toughest, smallest, and highest speed applications you've got.

Glenair Series 88 SuperFly® represents a perfect storm of high-performance contacts, shells, wires, termination and mating technologies. SuperFly® is the only connector series in existence that combines the weight-saving and performance advantages of nanominiature, microminiature and AS39029 type (size #23) contacts in a hybrid package for battlefield communications, computing, and other high-performance applications. Available in factory-terminated cordsets, single-ended pigtails, and PCB termination receptacles for complete flexibility in cable and box configurations. QDC and threaded SuperFly® cordsets can ship with a variety of cabling options, including ultraflexible GhostWire or impedance-controlled twisted pairs for high-speed applications.

Glenair®

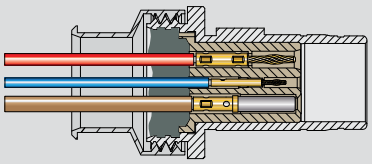
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SERIES 88

SuperFly® Connectors

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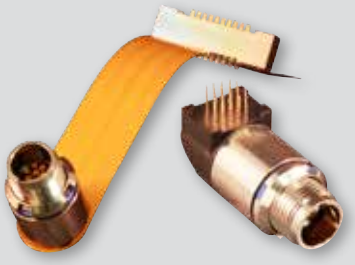
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E

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A

Series 88 SuperFly®: the ultimate nanominiature tactical connector



Rear-panel mount push-pull and threaded PCB receptacles, and AlphaLink flex jumpers now available

Ready for the toughest, smallest, and highest-speed applications you've got

Compact, ultralightweight SuperFly® connectors feature threaded or push-pull coupling, EMI shielding and IP67 ingress protection. Available in a variety of layouts and sizes for audio, video, communications and data applications, Series 88 connectors are ideal for man-portable electronics where size and weight are prime considerations. Available in ready-to-use cordsets and single-ended pigtails, Series 88 SuperFly® QDC and threaded SuperFly cordsets can ship with a variety of cabling options, including ultraflexible GhostWire or impedance-controlled twisted pairs for high-speed applications.

- IP67 immersion rated
- High-reliability contacts: 5 Amp, 3 Amp, and 1 Amp
- High shock and vibration
- Robust EMI shielding
- Designed for high speed data applications
- Pre-wired, epoxy-sealed cordsets
- Straight and 90° PC tail receptacles
- 27 Contact arrangements
- Front or rear panel mounting
- Aluminum or stainless steel
- Accepts #22 to #32 AWG wire
- Made-to-order multi-branch cables and assemblies

SUPPORTED CONTACTS



#23 AS39029 Type
5 Amp Crimp Contact



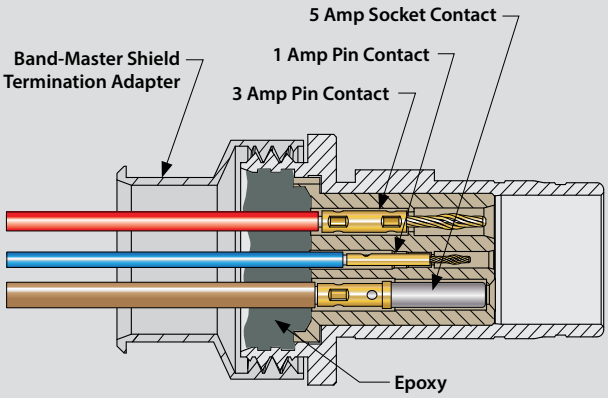
Micro
3 Amp TwistPin Contact



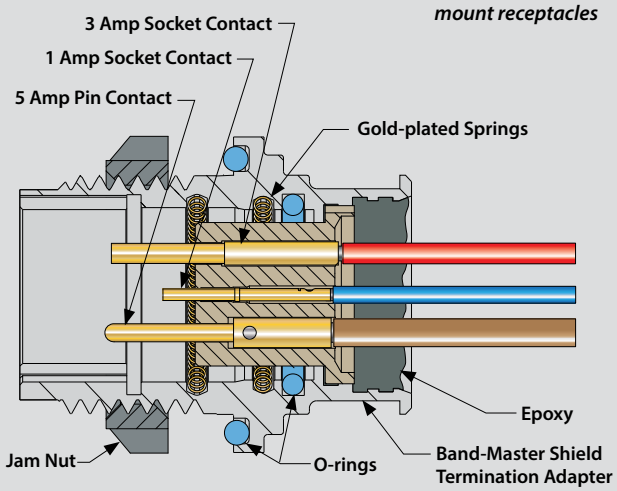
Nano
1 Amp TwistPin Contact



SuperFly® front and rear box panel mount receptacles



Series 880 QDC Plug



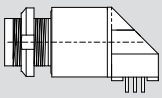
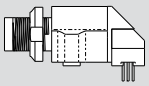
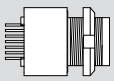
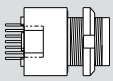
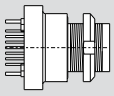
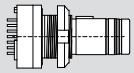
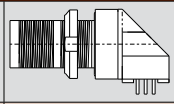
Series 880 QDC Receptacle

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SuperFly® Connectors

Performance Specifications and Materials

NOW AVAILABLE: PRINTED CIRCUIT BOARD PLUGS AND RECEPTACLES

Quick-Disconnect						Threaded	
							
Right Angle, Rear Panel Mount	Right Angle, Rear Panel Mount, PCB Mounting Holes	Vertical, Rear Panel Mount	Vertical, Rear Panel Mount, PCB Mounting Holes	Vertical, Rear Panel Mount, Ground Pins	Vertical, Rear Panel Mount	Vertical, Rear Panel Mount	Right Angle, Rear Panel Mount

Mechanical and Environmental Specifications		
Description	Requirement	Standard
Water Immersion, mated	1 meter, 1 hour	MIL-STD-810F Method 512.4
Ingress Protection, mated	IP67 rating	IEC-60529
Vibration, Sine	30 g's	EIA-364-28
Vibration, Random	37.8 g's	EIA-364-28 Test Condition V IEC-60512-6-4
Gunfire Vibration	No discontinuity	MIL-STD-810 Method 519
Mechanical Shock	300g's	EIA-364-27 Condition D IEC-60512-6-3
Corrosion (Salt Mist)	Nickel-plated aluminum: 48 hours Other finishes: 500 hours	EIA-364-26 IEC 60512-11-6
Fluid Immersion	No damage from immersion in various fuels and oils.	EIA-364-10
Magnetic Permeability	2 µ maximum.	EIA-364-54
Durability (mating cycles)	2000	EIA-364-09

Electrical Specifications			
Property	5 Amp Contact	3 Amp Contact	1 Amp Contact
Current Rating	5A	3A	1A
Wire Size	#22 - #28 AWG	#24 - #30 AWG	#28 - #32 AWG
Dielectric Withstanding Voltage	500Vac	600Vac	250Vac
Contact Resistance	20 milliohms	32 milliohms	80 milliohms
Contact Specification	AS39029	MIL-DTL-83513	MIL-DTL-32139
Shell Resistance	< 5 milliohms		
Shielding Effectiveness	>55 dB thru 1000MHz		
Insulation Resistance	5000 megohms minimum		

Materials	
Property	Description
Insulator	Thermoplastic, glass-filled
Shell	Aluminum or stainless steel
1A. Contact	Precious metal alloy pin, gold-plated copper alloy socket
3A. and 5A. Contact	Copper alloy, 50 microinches gold over nickel finish
Encapsulant	Epoxy
Wire	**Space-Grade** High strength silver-coated copper alloy, ETFE insulation (M22759/33 or equiv.)

SuperFly® Connectors

Materials, Finishes and Cable Jacket/Overbraid

ABOUT SUPERFLY® MATERIALS AND FINISHES

Four standard material and finish options are available.

1 Aluminum shell with ***Electroless Nickel*** (EN). High reflectivity and poor corrosion resistance make nickel a poor choice for tactical systems, but nickel is preferred for avionics systems, space vehicles, medical equipment and test gear where corrosion is not a primary concern. Nickel is highly conductive and is excellent for EMI-protected systems.

2 Aluminum shell with ***Black Zinc-Nickel*** (Zn-Ni). Although less conductive than other finishes, non-reflective black Zn-Ni is a typical choice for soldier gear. Corrosion resistance is very good.

3 Aluminum shell with ***Electroless Nickel-PTFE*** (EN-PTFE). Excellent durability, corrosion resistance and conductivity. Non-reflective EN-PTFE is a primary choice for any harsh environment. Inherently lubricious, resists galling.

4 Aluminum shell with ***Olive Drab or Cadmium*** (OD over Cad). very good, corrosion resistance and excellent conductivity. Non-reflective OD over Cad is a primary choice for any harsh environment. Inherently lubricious, resists galling.

5 Stainless steel shell with ***Zinc-Cobalt*** (ZN-CO). Excellent durability, corrosion resistance and conductivity. Non-reflective black finish is an excellent choice for any harsh environment.

6 Stainless steel, **passivated** finish. Excellent corrosion resistance, good conductivity. A good choice for high corrosion areas where EMI shielding is not a primary concern. Suitable for most aerospace and tactical gear.

7 Stainless steel, **Ni-PTFE** finish. Excellent corrosion resistance and excellent conductivity. A good choice for high corrosion areas where EMI shielding is a primary concern. Highly conductive, non-reflective Ni-PTFE finish is suitable for all aerospace and tactical systems.

Material and Finish Comparison Data							
Property	1	2	3	4	5	6	7
Material and Finish	Aluminum Electroless Nickel	Aluminum Black Zinc-Nickel	Aluminum Electoless Nickel-PTFE	Aluminum Olive Drab over Cadmium	Stainless Steel Black Zinc-Cobalt	Stainless Steel Passivated	Stainless Steel Electroless Nickel-PTFE
Glenair Code	M	ZR	MT[1]	NF	ZC	ZK	ZMT
Corrosion Resistance	Poor	Good	Very Good	Very Good	Excellent	Excellent	Excellent
RoHS Compliance[1]	Yes	Yes	Yes	No	No	Yes	Yes
Conductivity	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent
Reflectivity	Reflective	Non-reflective	Non-reflective	Non-reflective	Non-reflective	Reflective	Non-reflective
Cost	$	$$	$$	$$	$$$$	$$$$	$$$$

1. Meets DoD directives and European regulations for elimination of cadmium and hexavalent chromate.

ABOUT SUPERFLY® CABLE JACKETS

Standard SuperFly® cable jacket/overbraid include: extruded thermoplastic polyurethane (TPU) and nylon overbraid. TPU offers excellent all-round performance and is typically specified for military gear and oil exploration equipment. Low-toxicity TPU is non-halogenated and flame-retardent. Braided nylon jackets offer outstanding flexibility. For soldier systems applications, braided jackets are an alternative to TPU jackets if weight and flexibility outweigh the drawbacks of braid; e.g.the possibility of snagging the braid or entrapping contamination.

Additional jacket and overmold materials are available for custom cordsets. Contact the factory for more information.

Outer Jacket/Braid Comparison Data		
Property	TPU Jacket	Nylon Braid
Flammability	Flame-Retardent	Flame-Retardent
UL 94V-0	Yes	No
Temperature Range	-45°C to +150°C	-50°C to +150°C
Flexibility	Good	Excellent
Solvent Resistance	Excellent	Good
Abrasion Resistance	Excellent	Very Good
Toxicity	Low Smoke, Zero Halogen	Zero Halogen

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SuperFly® Connectors

Shrouded and Unshrouded Contacts, Modification Codes and Application Notes

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the Insert. Unshrouded contacts extend from the insert face. Figure 1 shows a shrouded insert, and figure 2 illustrates an unshrouded insert. Shrouded inserts contain 1 amp and 3 amp pin contacts along with 5 amp socket contact. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp twistpins.

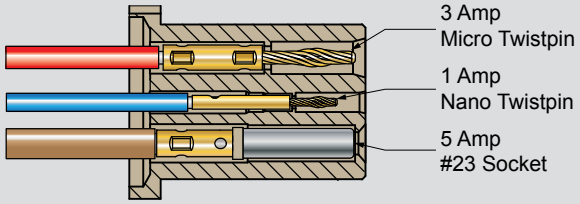


Figure 1
Shrouded Type B Insert

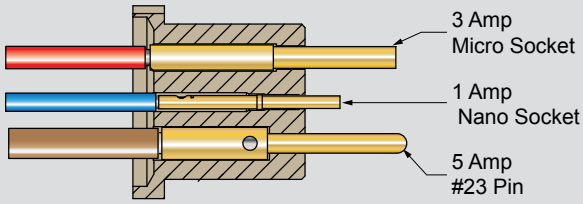
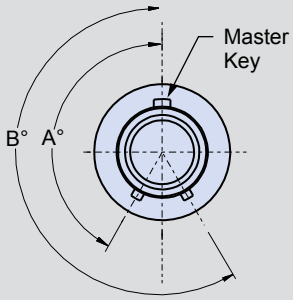


Figure 2
Unshrouded Type A Insert

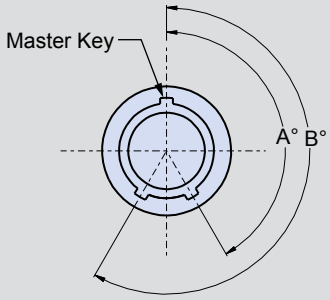
MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors feature a single key and keyway for shell polarization. Optional alternate key positions are available for situations where multiple connectors are used. Add the suffix code shown below to the part number. Example: 880-003RA-E3W-M200J5-24-**686A**.

Alternate Key Positions			
Key Position	Suffix Code	A°	B°
A	686A	150°	210°
B	686B	75°	210°
C	686C	95°	230°
D	686D	140°	275°
E	686E	75°	275°
F	686F	95°	210°



Plug Key Positions



Receptacle Key Positions

MOD-518 OPEN FACE SEALING

Standard SuperFly® connectors meet IP67 when mated. If water immersion is a requirement for open face (unmated) connectors, the connector should be specially processed and tested. Modification code 518 specifies special processing and 100% leak testing. Connectors are 100% tested to meet a leak rate of 1 x 10^{-4} cc/second of helium at 1 atmosphere pressure differential. Add suffix code -518 to the part number to call out open face sealing.

Example: 880-004RA-G6M10N-M035J-24-518

APPLICATION NOTE: SAND AND DUST EXPOSURE

Unmated SuperFly® connectors should not be exposed to sand, dust or debris, which can be entrapped in the small contact cavities. Debris entrapment can cause excessive contact wear and possible failure. Unmated connectors should be fitted with dust caps or protective covers.

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SuperFly® Connectors

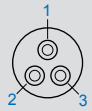
Insert Arrangements

A

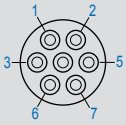
Layouts viewed from mating face of shrouded (Type B) insert. Use mirror image for unshrouded (Type A) insert.

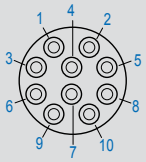
Arrangements with 5 Amp (#22-28 AWG) Contacts

Contact Size
◎ 5 Amp







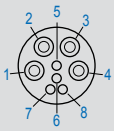


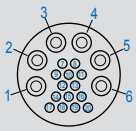
Contact Arrangement	E3W	F4W	G7W	H10W
No. of Contacts	3	4	7	10
Current Rating	5A.	5A.	5A.	5A.
Contact Size	#23	#23	#23	#23
Wire Size (AWG)	#22–#28	#22–#28	#22–#28	#22–#28
DWV Voltage (VAC Sea Level)	500	500	500	500

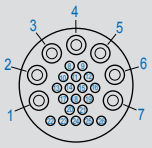
Arrangements with 5 Amp (#22-#28 AWG) and 1 Amp (#30-32 AWG) Contacts

Contact Size
○ 1 Amp
◎ 5 Amp





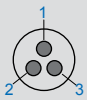




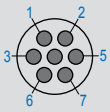
Contact Arrangement	D2W2N		F4W4N		H6W14N		J7W19N	
No. of Contacts	2	2	4	4	6	14	7	19
Current Rating	5A.	1A.	5A.	1A.	5A.	1A.	5A.	1A.
Contact Size	#23	Nano	#23	Nano	#23	Nano	#23	Nano
Wire Size (AWG)	#22–#28	#28–#32	#22–#28	#28–#32	#22–#28	#28–#32	#22–#28	#28–#32
DWV Voltage (VAC Sea Level)	500	250	500	250	500	250	500	250

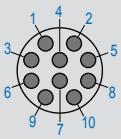
Arrangements with 3 Amp (#24-30 AWG) Contacts

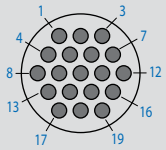
Contact Size
● 3 Amp

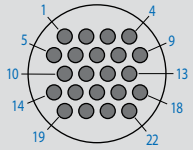












Contact Arrangement	D3M	E4M	F7M	G10M	K19M	L22M
No. of Contacts	3	4	7	10	19	22
Current Rating	3A.	3A.	3A.	3A.	3A.	3A.
Contact Size	Micro	Micro	Micro	Micro	Micro	Micro
Wire Size (AWG)	#24–#30	#24–#30	#24–#30	#24–#30	#24–#30	#24–#30
DWV Voltage (VAC Sea Level)	600	600	600	600	600	600

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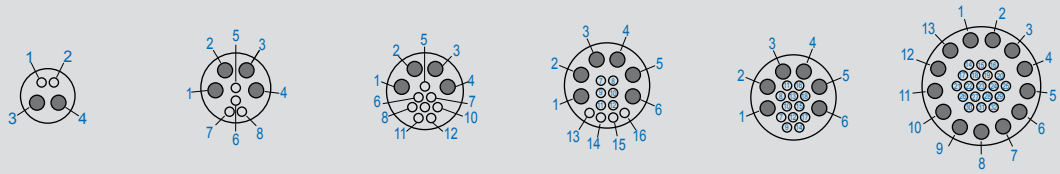
SuperFly® Connectors

Insert Arrangements and Layouts Organized by Protocol

Layouts viewed from mating face of shrouded (Type B) insert. Use mirror image for unshrouded (Type A) insert.

Arrangements with 3 Amp (#24-#30 Awg) and 1 Amp (#30-32 AWG) Contacts

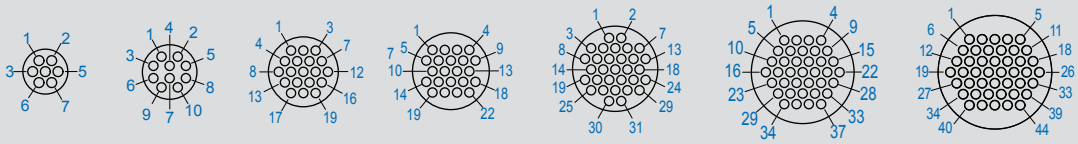
Contact Size
○ 1 Amp
● 3 Amp



Contact Arrangement	C2M2N		E4M4N		F4M8N		G6M10N		G6M12N		K13M19N	
No. of Contacts	2	2	4	4	4	8	6	10	6	12	13	19
Current Rating	3A.	1A.	3A.	1A.	3A.	1A.	3A.	1A.	3A.	1A.	3A.	1A.
Contact Size	Micro	Nano	Micro	Nano	Micro	Nano	Micro	Nano	Micro	Nano	Micro	Nano
Wire Size (AWG)	#24–#30	#28–#32	#24–#30	#28–#32	#24–#30	#28–#32	#24–#30	#28–#32	#24–#30	#28–#32	#24–#30	#28–#32
DWV Voltage (VAC Sea Level)	600	250	600	250	600	250	600	250	600	250	600	250

Arrangements with 1 Amp Contacts (#28 - #32 AWG)

Contact Size
○ 1 Amp



Contact Arrangement	B7N	C10N	E19N	F22N	G31N	H37N	J44N
No. of Contacts	7	10	19	22	31	37	44
Current Rating	1A.	1A.	1A.	1A.	1A.	1A.	1A.
Contact Size	Nano	Nano	Nano	Nano	Nano	Nano	Nano
Wire Size (AWG)	#28–#32	#28–#32	#28–#32	#28–#32	#28–#32	#28–#32	#28–#32
DWV Voltage (VAC Sea Level)	250	250	250	250	250	250	250

LAYOUTS ORGANIZED BY PROTOCOL

The geometries of SuperFly® nano and micro contact cavities were designed to offer the best possible differential impedance match for a contact pair. This makes SuperFly® a great choice for high speed applications. The following table is provided as a starting-point when selecting a layout for your high speed application. The suggested layouts contain the minimum number of contacts required for the specified protocol. Please contact the Glenair factory for more information including other supported protocols and high speed test data.

High Speed Applications							
Frequency	MHz ~~~

SuperFly

MIL-STD-681 Color Code Chart

MIL-STD-681 Color Code Chart for Micro-D Connectors										
PIN NO.	MIL-STD-681 NO NUMBER	Base Color	First Stripe	Second Stripe	PIN NO.	MIL-STD-681 NUMBER.	Base Color	First Stripe	Second Stripe	Third Stripe
1	0	BLK			51	957	WHT	GRN	VIO	
2	1	BRN			52	958	WHT	GRN	GRY	
3	2	RED			53	967	WHT	BLU	VIO	
4	3	ORN			54	968	WHT	BLU	GRY	
5	4	YEL			55	978	WHT	VIO	GRY	
6	5	GRN			56	9012	WHT	BLK	BRN	RED
7	6	BLU			57	9013	WHT	BLK	BRN	ORN
8	7	VIO			58	9014	WHT	BLK	BRN	YEL
9	8	GRY			59	9015	WHT	BLK	BRN	GRN
10	9	WHT			60	9016	WHT	BLK	BRN	BLU
11	90	WHT	BLK		61	9017	WHT	BLK	BRN	VIO
12	91	WHT	BRN		62	9018	WHT	BLK	BRN	GRY
13	92	WHT	RED		63	9023	WHT	BLK	RED	ORN
14	93	WHT	ORN		64	9024	WHT	BLK	RED	YEL
15	94	WHT	YEL		65	9025	WHT	BLK	RED	GRN
16	95	WHT	GRN		66	9026	WHT	BLK	RED	BLU
17	96	WHT	BLU		67	9027	WHT	BLK	RED	VIO
18	97	WHT	VIO		68	9028	WHT	BLK	RED	GRY
19	98	WHT	GRY		69	9034	WHT	BLK	ORN	YEL
20	901	WHT	BLK	BRN	70	9035	WHT	BLK	ORN	GRN
21	902	WHT	BLK	RED	71	9036	WHT	BLK	ORN	BLU
22	903	WHT	BLK	ORN	72	9037	WHT	BLK	ORN	VIO
23	904	WHT	BLK	YEL	73	9038	WHT	BLK	ORN	GRY
24	905	WHT	BLK	GRN	74	9045	WHT	BLK	YEL	GRN
25	906	WHT	BLK	BLU	75	9046	WHT	BLK	YEL	BLU
26	907	WHT	BLK	VIO	76	9047	WHT	BLK	YEL	VIO
27	908	WHT	BLK	GRY	77	9048	WHT	BLK	YEL	GRY
28	912	WHT	BRN	RED	78	9056	WHT	BLK	GRN	BLU
29	913	WHT	BRN	ORN	79	9057	WHT	BLK	GRN	VIO
30	914	WHT	BRN	YEL	80	9058	WHT	BLK	GRN	GRY
31	915	WHT	BRN	GRN	81	9067	WHT	BLK	BLU	VIO
32	916	WHT	BRN	BLU	82	9068	WHT	BLK	BLU	GRY
33	917	WHT	BRN	VIO	83	9078	WHT	BLK	VIO	GRY
34	918	WHT	BRN	GRY	84	9123	WHT	BRN	RED	ORN
35	923	WHT	RED	ORN	85	9124	WHT	BRN	RED	YEL
36	924	WHT	RED	YEL	86	9125	WHT	BRN	RED	GRN
37	925	WHT	RED	GRN	87	9126	WHT	BRN	RED	BLU
38	926	WHT	RED	BLU	88	9127	WHT	BRN	RED	VIO
39	927	WHT	RED	VIO	89	9128	WHT	BRN	RED	GRY
40	928	WHT	RED	GRY	90	9134	WHT	BRN	ORN	YEL
41	934	WHT	ORN	YEL	91	9135	WHT	BRN	ORN	GRN
42	935	WHT	ORN	GRN	92	9136	WHT	BRN	ORN	BLU
43	936	WHT	ORN	BLU	93	9137	WHT	BRN	ORN	VIO
44	937	WHT	ORN	VIO	94	9138	WHT	BRN	ORN	GRY
45	938	WHT	ORN	GRY	95	9145	WHT	BRN	YEL	GRN
46	945	WHT	YEL	GRN	96	9146	WHT	BRN	YEL	BLU
47	946	WHT	YEL	BLU	97	9147	WHT	BRN	YEL	VIO
48	947	WHT	YEL	VIO	98	9148	WHT	BRN	YEL	GRY
49	948	WHT	YEL	GRY	99	9156	WHT	BRN	GRN	BLU
50	956	WHT	GRN	BLU	100	9157	WHT	BRN	GRN	VIO

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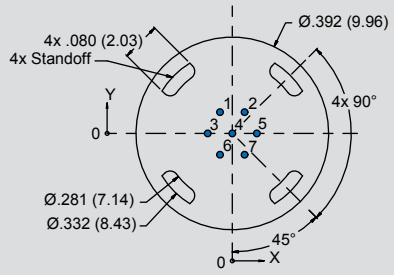
SuperFly® Connectors

Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

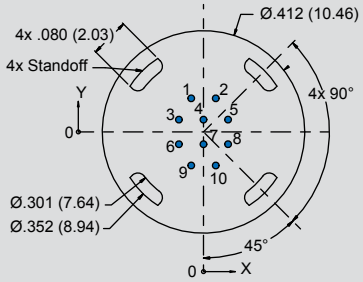
PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

B7N



Tag	X Loc	Y Loc	Size
1	-.0250	.0433	Nano
2	.0250	.0433	Nano
3	-.0500	.0000	Nano
4	.0000	.0000	Nano
5	.0500	.0000	Nano
6	-.0250	-.0433	Nano
7	.0250	-.0433	Nano

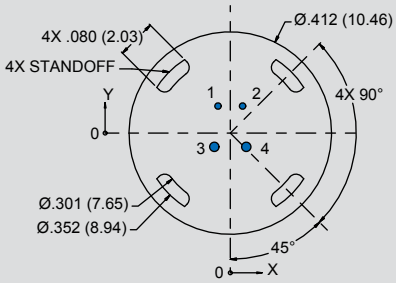
C10N



Tag	X Loc	Y Loc	Size
1	-.0250	.0683	Nano
2	.0250	.0683	Nano
3	-.0500	.0250	Nano
4	.0000	.0250	Nano
5	.0500	.0250	Nano

Tag	X Loc	Y Loc	Size
6	-.0500	-.0250	Nano
7	.0000	-.0250	Nano
8	.0500	-.0250	Nano
9	-.0250	-.0683	Nano
10	.0250	-.0683	Nano

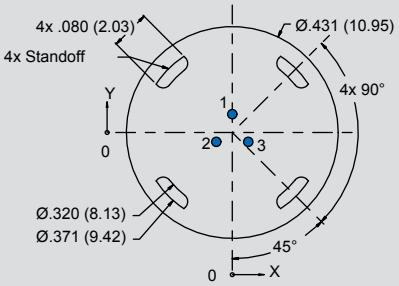
C2M2N



Tag	X Loc	Y Loc	Size
1	-.0250	.0550	Nano
2	.0250	.0550	Nano

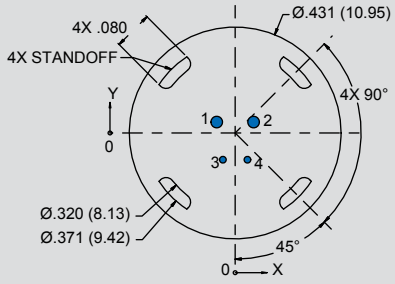
Tag	X Loc	Y Loc	Size
3	-.0325	-.0280	Micro
4	.0325	-.0280	Micro

D3M



Tag	X Loc	Y Loc	Size
1	.0000	.0373	Micro
2	-.0325	-.0190	Micro
3	.0325	-.0190	Micro

D2W2N



Tag	X Loc	Y Loc	Size
1	-.0375	.0222	#23
2	.0375	.0222	#23

Tag	X Loc	Y Loc	Size
3	-.0250	-.0544	Nano
4	.0250	-.0544	Nano

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SuperFly® Connectors

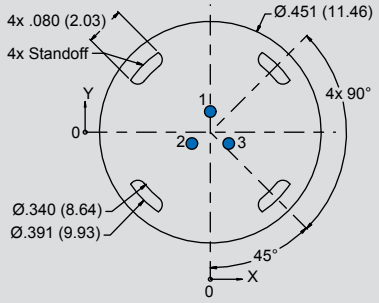
Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

A

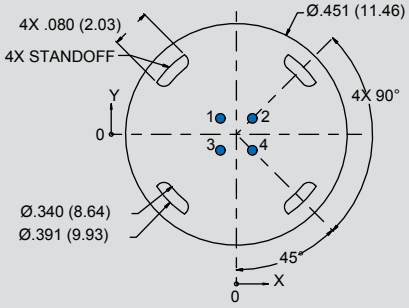
PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

E3W



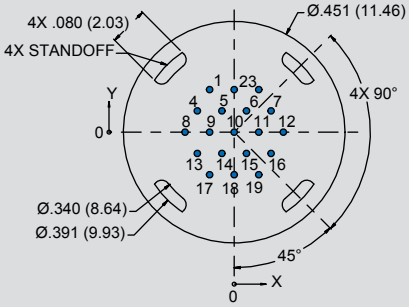
Tag	X Loc	Y Loc	Size
1	.0000	.0420	#23
2	-.0375	-.0230	#23
3	.0375	-.0230	#23

E4M



Tag	X Loc	Y Loc	Size
1	-.0325	.0325	Micro
2	.0325	.0325	Micro
3	-.0325	-.0325	Micro
4	.0325	-.0325	Micro

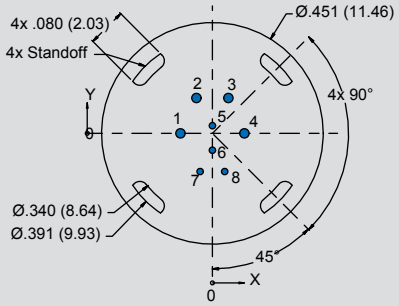
E19N



Tag	X Loc	Y Loc	Size
1	-.0500	.0866	Nano
2	.0000	.0866	Nano
3	.0500	.0866	Nano
4	-.0750	.0433	Nano
5	-.0250	.0433	Nano
6	.0250	.0433	Nano
7	.0750	.0433	Nano
8	-.1000	.0000	Nano
9	-.0500	.0000	Nano
10	.0000	.0000	Nano

Tag	X Loc	Y Loc	Size
11	.0500	.0000	Nano
12	.1000	.0000	Nano
13	-.0750	-.0433	Nano
14	-.0250	-.0433	Nano
15	.0250	-.0433	Nano
16	.0750	-.0433	Nano
17	-.0500	-.0866	Nano
18	.0000	-.0866	Nano
19	.0500	-.0866	Nano

E4M4N



Tag	X Loc	Y Loc	Size
1	-.0650	.0000	Micro
2	-.0325	.0719	Micro
3	.0325	.0719	Micro
4	.0650	.0000	Micro

Tag	X Loc	Y Loc	Size
5	.0000	.0156	Nano
6	.0000	-.0344	Nano
7	-.0250	-.077	Nano
8	.0250	-.077	Nano

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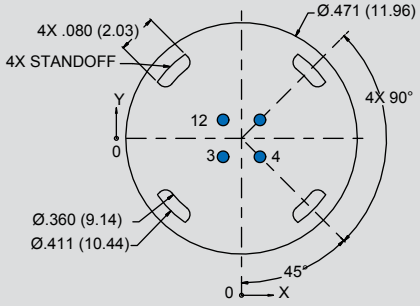
SuperFly® Connectors

Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

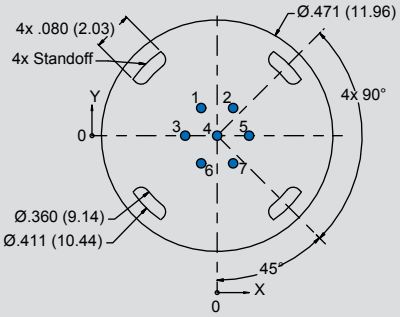
PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

F4W



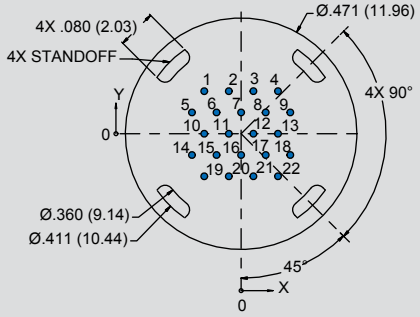
Tag	X Loc	Y Loc	Size
1	-.0375	.0375	#23
2	.0375	.0375	#23
3	-.0375	-.0375	#23
4	.0375	-.0375	#23

F7M



Tag	X Loc	Y Loc	Size
1	-.0325	.0563	Micro
2	.0325	.0563	Micro
3	-.0650	.0000	Micro
4	.0000	.0000	Micro
5	.0650	.0000	Micro
6	-.0325	-.0563	Micro
7	.0325	-.0563	Micro

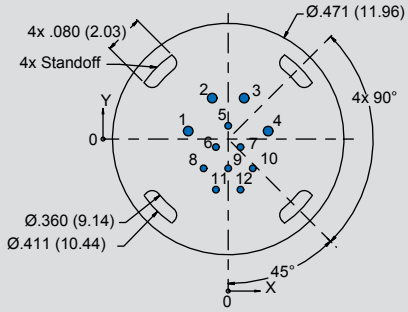
F22N



Tag	X Loc	Y Loc	Size
1	-.0750	.0866	Nano
2	-.0250	.0866	Nano
3	.0250	.0866	Nano
4	.0750	.0866	Nano
5	-.1000	.0433	Nano
6	-.0500	.0433	Nano
7	.0000	.0433	Nano
8	.0500	.0433	Nano
9	.1000	.0433	Nano
10	-.0750	.0000	Nano
11	-.0250	.0000	Nano

Tag	X Loc	Y Loc	Size
12	.0250	.0000	Nano
13	.0750	.0000	Nano
14	-.1000	-.0433	Nano
15	-.0500	-.0433	Nano
16	.0000	-.0433	Nano
17	.0500	-.0433	Nano
18	.1000	-.0433	Nano
19	-.0750	-.0866	Nano
20	-.0250	-.0866	Nano
21	.0250	-.0866	Nano
22	.0750	-.0866	Nano

F4M8N



Tag	X Loc	Y Loc	Size
1	-.0813	.0162	Micro
2	-.0325	.0833	Micro
3	.0325	.0833	Micro
4	.0813	.0162	Micro

Tag	X Loc	Y Loc	Size
5	.0000	.0270	Nano
6	-.0250	-.0163	Nano
7	.0250	-.0163	Nano
8	-.0500	-.0596	Nano
9	.0000	-.0596	Nano
10	.0500	.0596	Nano
11	-.0250	-.1029	Nano
12	.0250	-.1029	Nano

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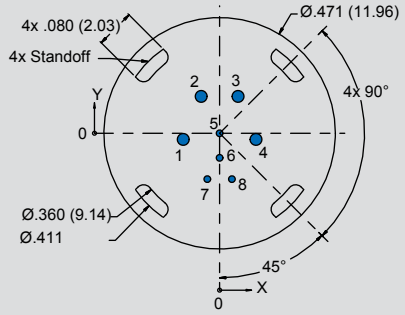
SuperFly® Connectors

Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

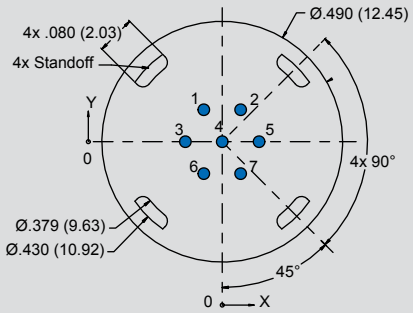
PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

F4W4N



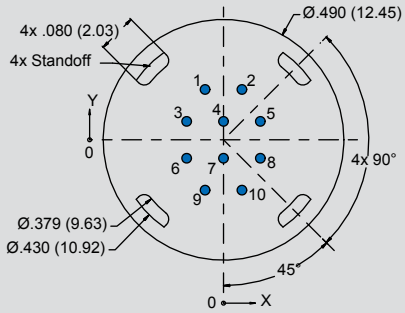
Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0740	-.0125	#23	5	.0000	.0000	Nano
2	-.0375	.0750	#23	6	.0000	-.0500	Nano
3	.0375	.0750	#23	7	-.0250	-.0933	Nano
4	.0740	-.0125	#23	8	.0250	-.0933	Nano

G7W



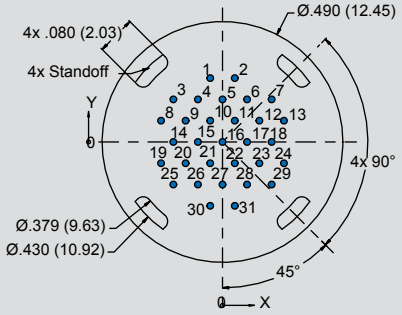
Tag	X Loc	Y Loc	Size
1	-.0375	.0650	#23
2	.0375	.0650	#23
3	-.0750	.0000	#23
4	.0000	.0000	#23
5	.0750	.0000	#23
6	-.0375	-.0650	#23
7	.0375	-.0650	#23

G10M



Tag	X Loc	Y Loc	Size
1	-.0375	.1025	Micro
2	.0375	.1025	Micro
3	-.0750	.0375	Micro
4	.0000	.0375	Micro
5	.0750	.0375	Micro
6	-.0750	-.0375	Micro
7	.0000	-.0375	Micro
8	.0750	-.0375	Micro
9	-.0375	-.1025	Micro
10	.0375	-.1025	Micro

G31N



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0250	.1299	Nano	17	.0500	.0000	Nano
2	.0250	.1299	Nano	18	.1000	.0000	Nano
3	-.1000	.0866	Nano	19	-.1250	-.0433	Nano
4	-.0500	.0866	Nano	20	-.0750	-.0433	Nano
5	.0000	.0866	Nano	21	-.0250	-.0433	Nano
6	.0500	.0866	Nano	22	.0250	-.0433	Nano
7	.1000	.0866	Nano	23	.0750	-.0433	Nano
8	-.1250	.0433	Nano	24	.1250	-.0433	Nano
9	-.0750	.0433	Nano	25	-.1000	-.0866	Nano
10	-.0250	.0433	Nano	26	-.0500	-.0866	Nano
11	.0250	.0433	Nano	27	.0000	-.0866	Nano
12	.0750	.0433	Nano	28	.0500	-.0866	Nano
13	.1250	.0433	Nano	29	.1000	-.0866	Nano
14	-.1000	.0000	Nano	30	-.0250	-.1299	Nano
15	-.0500	.0000	Nano	31	.0250	-.1299	Nano
16	.0000	.0000	Nano				

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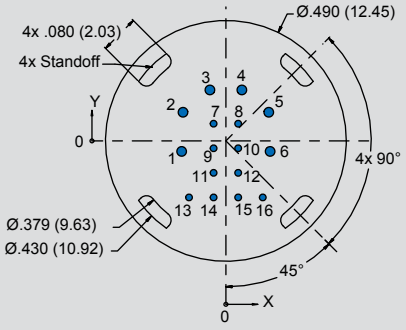
SuperFly® Connectors

Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

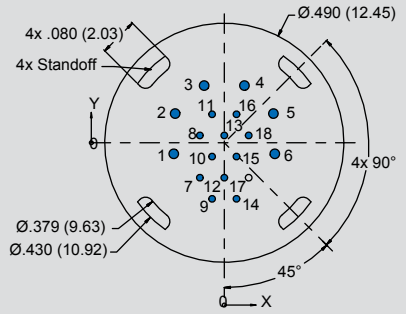
G6M10N



Tag	X Loc	Y Loc	Size
1	-.0900	-.0214	Micro
2	-.0872	.0583	Micro
3	-.0325	.1037	Micro
4	.0325	.1037	Micro
5	.0872	.0583	Micro
6	.0900	-.0214	Micro

Tag	X Loc	Y Loc	Size
7	-.0250	.0350	Nano
8	-.0250	-.0350	Nano
9	-.0250	-.0150	Nano
10	.0250	-.0150	Nano
11	-.0250	-.0650	Nano
12	.0250	-.0650	Nano
13	-.0750	-.1150	Nano
14	-.0250	-.1150	Nano
15	.0250	-.1150	Nano
16	.0750	-.1150	Nano

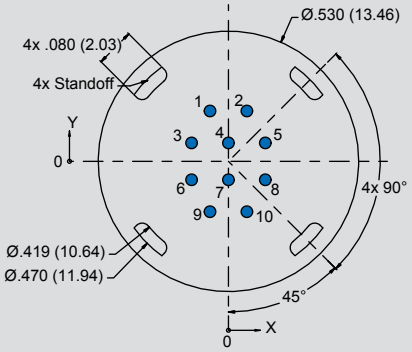
G6M12N



Tag	X Loc	Y Loc	Size
1	-.1035	-.0227	Micro
2	-.1006	.0598	Micro
3	-.0413	.1171	Micro
4	.0413	.1171	Micro
5	.1006	.0598	Micro
6	.1035	-.0227	Micro

Tag	X Loc	Y Loc	Size
7	-.0500	-.0716	Nano
8	-.0500	.0150	Nano
9	-.0250	.1149	Nano
10	-.0250	-.0283	Nano
11	-.0250	.0583	Nano
12	.0000	-.0716	Nano
13	.0000	.0150	Nano
14	.0250	-.1149	Nano
15	.0250	-.0283	Nano
16	.0250	.0583	Nano
17	.0500	-.0716	Nano
18	.0500	.0150	Nano

H10W



Tag	X Loc	Y Loc	Size
1	-.0375	.1025	#23
2	.0375	.1025	#23
3	-.0750	.0375	#23
4	.0000	.0375	#23
5	.0750	.0375	#23

Tag	X Loc	Y Loc	Size
6	-.0750	-.0375	#23
7	.0000	-.0375	#23
8	.0750	-.0375	#23
9	-.0375	-.1025	#23
10	.0375	-.1025	#23

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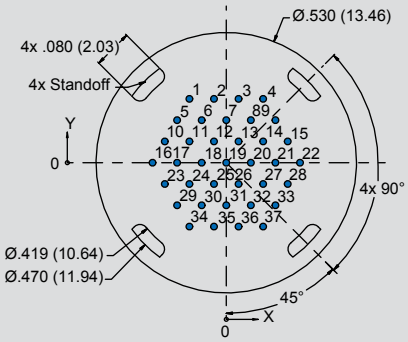
SuperFly® Connectors

Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

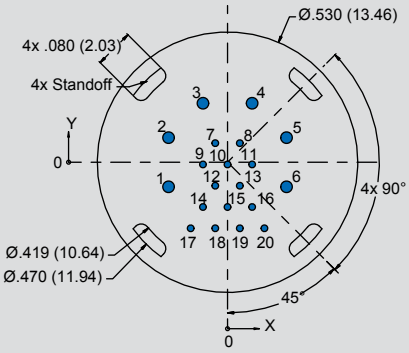
PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

H37N



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.0750	.1299	Nano	20	.0500	.0000	Nano
2	-.0250	.1299	Nano	21	.1000	.0000	Nano
3	.0250	.1299	Nano	22	.1500	.0000	Nano
4	.0750	.1299	Nano	23	-.1250	-.0433	Nano
5	-.1000	.0866	Nano	24	-.0750	-.0433	Nano
6	-.0500	.0866	Nano	25	-.0250	-.0433	Nano
7	.0000	.0866	Nano	26	.0250	-.0433	Nano
8	.0500	.0866	Nano	27	.0750	-.0433	Nano
9	.1000	.0866	Nano	28	.1250	-.0433	Nano
10	-.1250	.0433	Nano	29	-.1000	-.0866	Nano
11.	-.0750	.0433	Nano	30	-.0500	-.0866	Nano
12	-.0250	.0433	Nano	31	.0000	-.0866	Nano
13	.0250	.0433	Nano	32	.0500	-.0866	Nano
14	.0750	.0433	Nano	33	.1000	-.0866	Nano
15	.1250	.0433	Nano	34	-.0750	-.1299	Nano
16	-.1500	.0000	Nano	35	-.0250	-.1299	Nano
17	-.1000	.0000	Nano	36	.0250	-.1299	Nano
18	-.0500	.0000	Nano	37	.0750	-.1299	Nano
19	.0000	.0000	Nano				

H6W14N



Tag	X Loc	Y Loc	Size	Tag	X Loc	Y Loc	Size
1	-.1200	-.0500	#23	7	-.0250	.0388	Nano
2	-.1200	.0500	#23	8	.0250	.0388	Nano
3	-.0500	.1200	#23	9	.0500	-.0045	Nano
4	.0500	.1200	#23	10	.0000	-.0045	Nano
5	.1200	.0500	#23	11	.0500	-.0045	Nano
6	.1200	-.0500	#23	12	-.0250	-.0478	Nano
				13	.0250	-.0478	Nano
				14	-.0500	-.0911	Nano
				15	.0000	-.0911	Nano
				16	.0500	-.0911	Nano
				17	-.0750	-.1344	Nano
				18	-.0250	-.1344	Nano
				19	.0250	-.1344	Nano
				20	.0750	-.1344	Nano

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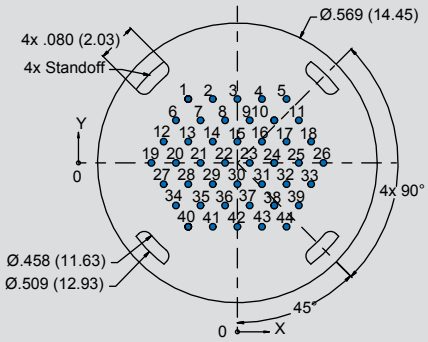
SuperFly® Connectors

Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

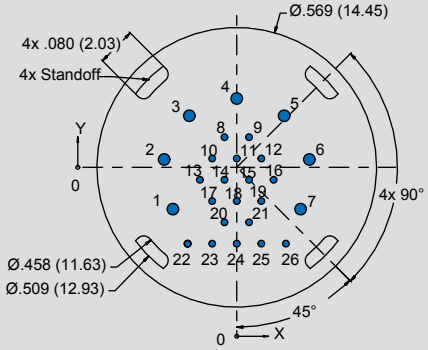
Insert Arrangement: J44N



Tag	X Loc	Y Loc	Size
1	-.1000	.1299	Nano
2	-.0500	.1299	Nano
3	.0000	.1299	Nano
4	.0500	.1299	Nano
5	.1000	.1299	Nano
6	-.1250	.0866	Nano
7	-.0750	.0866	Nano
8	-.0250	.0866	Nano
9	.0250	.0866	Nano
10	.0750	.0866	Nano
11	.1250	.0866	Nano
12	-.1500	.0433	Nano
13	-.1000	.0433	Nano
14	-.0500	.0433	Nano
15	.0000	.0433	Nano
16	.0500	.0433	Nano
17	.1000	.0433	Nano
18	.1500	.0433	Nano
19	-.1750	.0000	Nano
20	-.1250	.0000	Nano
21	-.0750	.0000	Nano
22	-.0250	.0000	Nano

Tag	X Loc	Y Loc	Size
23	.0250	.0000	Nano
24	.0750	.0000	Nano
25	.1250	.0000	Nano
26	.1750	.0000	Nano
27	-.1500	-.0433	Nano
28	-.1000	-.0433	Nano
29	-.0500	-.0433	Nano
30	.0000	-.0433	Nano
31	.0500	-.0433	Nano
32	.1000	-.0433	Nano
33	.1500	-.0433	Nano
34	-.1250	-.0866	Nano
35	-.0750	-.0866	Nano
36	-.0250	-.0866	Nano
37	.0250	-.0866	Nano
38	.0750	-.0866	Nano
39	.1250	-.0866	Nano
40	-.1000	-.1299	Nano
41	-.0500	-.1299	Nano
42	.0000	-.1299	Nano
43	.0500	-.1299	Nano
44	.1000	-.1299	Nano

Insert Arrangement: J7W19N



Tag	X Loc	Y Loc	Size
1	-.1299	-.0850	#23
2	-.1477	.0160	#23
3	-.0964	.1049	#23
4	.0000	.1400	#23
5	.0964	.1049	#23
6	.1477	.0160	#23
7	.1299	-.0850	#23

Tag	X Loc	Y Loc	Size
8	-.0250	.0613	Nano
9	.0250	.0613	Nano
10	-.0500	.0180	Nano
11	.0000	.0180	Nano
12	.0500	.0180	Nano
13	-.0750	-.0253	Nano
14	-.0250	-.0253	Nano
15	.0250	-.0253	Nano
16	.0750	-.0253	Nano
17	-.0500	-.0686	Nano
18	.0000	-.0686	Nano
19	.0500	-.0686	Nano
20	-.0250	-.1119	Nano
21	.0250	-.1119	Nano
22	-.1000	-.1552	Nano
23	-.0500	-.1552	Nano
24	.0000	-.1552	Nano
25	.0500	-.1552	Nano
26	.1000	-.1552	Nano

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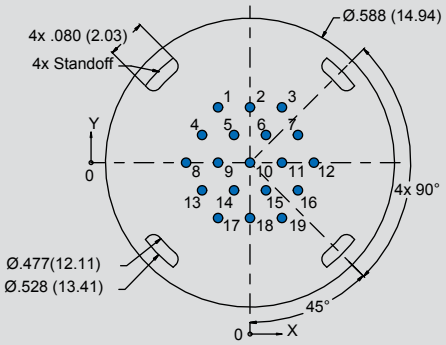
Vertical PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

A

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

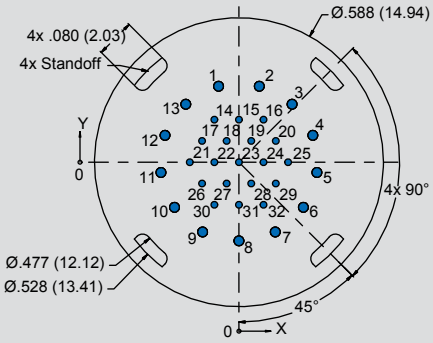
K19M



Tag	X Loc	Y Loc	Size
1	-.0650	.1126	Micro
2	.0000	.1126	Micro
3	.0650	.1126	Micro
4	-.0975	.0563	Micro
5	-.0325	.0563	Micro
6	.0325	.0563	Micro
7	.0975	.0563	Micro
8	-.1300	.0000	Micro
9	-.0650	.0000	Micro
10	.0000	.0000	Micro

Tag	X Loc	Y Loc	Size
11	.0650	.0000	Micro
12	.1300	.0000	Micro
13	-.0975	-.0563	Micro
14	-.0325	-.0563	Micro
15	.0325	-.0563	Micro
16	.0975	-.0563	Micro
17	-.0650	-.1126	Micro
18	.0000	-.1126	Micro
19	.0650	-.1126	Micro

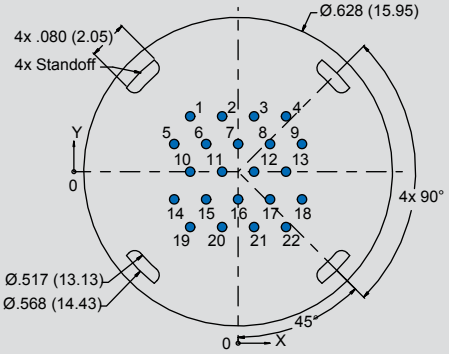
K13M19N



Tag	X Loc	Y Loc	Size
1	-.0415	.1546	Micro
2	.0415	.1546	Micro
3	.1081	.1180	Micro
4	.1504	.0548	Micro
5	.1587	-.0209	Micro
6	.1311	-.0918	Micro
7	.0739	-.1420	Micro
8	.0000	-.1600	Micro
9	-.0739	-.1420	Micro
10	-.1311	-.0918	Micro
11	-.1587	-.0209	Micro
12	-.1504	.0548	Micro
13	-.1081	.1180	Micro

Tag	X Loc	Y Loc	Size
14	-.0500	.0866	Nano
15	.0000	.0866	Nano
16	.0500	.0866	Nano
17	-.0750	.0433	Nano
18	-.0250	.0433	Nano
19	.0250	.0433	Nano
20	.0750	.0433	Nano
21	-.1000	.0000	Nano
22	-.0500	.0000	Nano
23	.0000	.0000	Nano
24	.0500	.0000	Nano
25	.1000	.0000	Nano
26	-.0750	-.0433	Nano
27	-.0250	-.0433	Nano
28	.0250	-.0433	Nano
29	.0750	-.0433	Nano
30	-.0500	-.0866	Nano
31	.0000	-.0866	Nano
32	.0500	-.0866	Nano

L22M



Tag	X Loc	Y Loc	Size
1	-.0975	.1126	Micro
2	-.0325	.1126	Micro
3	.0325	.1126	Micro
4	.0975	.1126	Micro
5	-.1300	.0563	Micro
6	-.0650	.0563	Micro
7	.0000	.0563	Micro
8	.0650	.0563	Micro
9	.1300	.0563	Micro
10	-.0975	.0000	Micro
11	-.0325	.0000	Micro

Tag	X Loc	Y Loc	Size
12	.0325	.0000	Micro
13	.0975	.0000	Micro
14	-.1300	-.0563	Micro
15	-.0650	-.0563	Micro
16	.0000	-.0563	Micro
17	.0650	-.0563	Micro
18	.1300	-.0563	Micro
19	-.0975	-.1126	Micro
20	-.0325	-.1126	Micro
21	.0325	-.1126	Micro
22	.0975	-.1126	Micro

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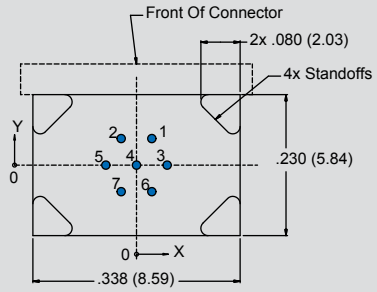
SuperFly® Connectors

Right Angle PCB Footprints

Viewed from rear PC tail side of shrouded (Type B) insert.
Use mirror image for unshrouded (Type A) insert.

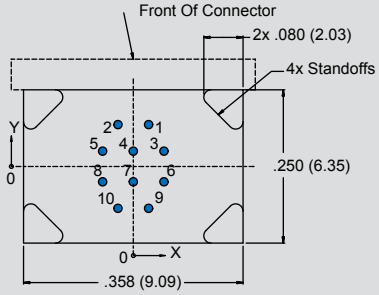
PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

B7N



Tag	X Loc	Y Loc	Cont Size
1	.0250	.0433	Nano
2	-.0250	.0433	Nano
3	.0500	.0000	Nano
4	.0000	.0000	Nano
5	-.0500	.0000	Nano
6	.0250	-.0433	Nano
7	-.0250	-.0433	Nano

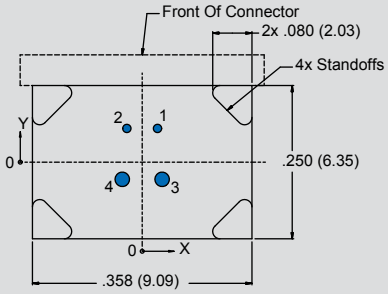
C10N



Tag	X Loc	Y Loc	Cont Size
1	.0250	.0683	Nano
2	-.0250	.0683	Nano
3	.0500	.0250	Nano
4	.0000	.0250	Nano
5	-.0500	.0250	Nano

Tag	X Loc	Y Loc	Cont Size
6	.0500	-.0250	Nano
7	.0000	-.0250	Nano
8	-.0500	-.0250	Nano
9	.0250	-.0683	Nano
10	-.0250	-.0683	Nano

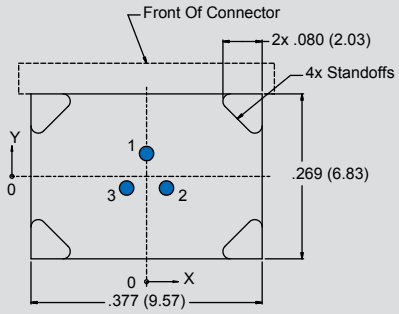
C2M2N



Tag	X Loc	Y Loc	Cont Size
1	.0250	.0550	Nano
2	-.0250	.0550	Nano

Tag	X Loc	Y Loc	Cont Size
3	.0325	-.0280	Micro
4	-.0325	-.0280	Micro

D3M



Tag	X Loc	Y Loc	Cont Size
1	.0000	.0373	Micro
2	.0325	-.0190	Micro
3	-.0325	-.0190	Micro

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SuperFly® Connectors

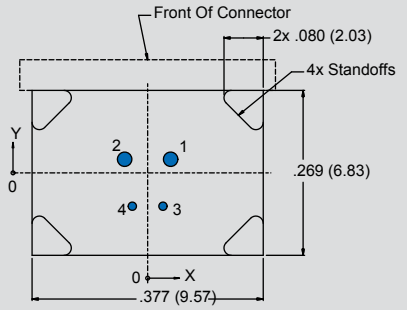
Right Angle PCB Footprints

Viewed from rear PC tail side of shrouded (Type B) insert.
Use mirror image for unshrouded (Type A) insert.

A

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

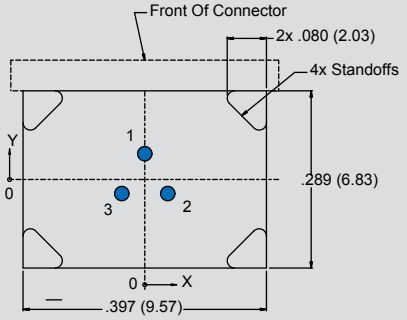
D2W2N



Tag	X Loc	Y Loc	Cont Size
1	.0375	.0222	#23
2	-.0375	.0222	#23

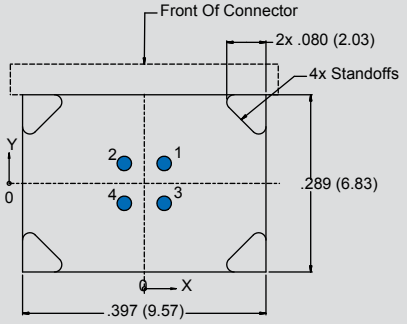
Tag	X Loc	Y Loc	Cont Size
3	.0250	-.0544	Nano
4	-.0250	-.0544	Nano

E3W



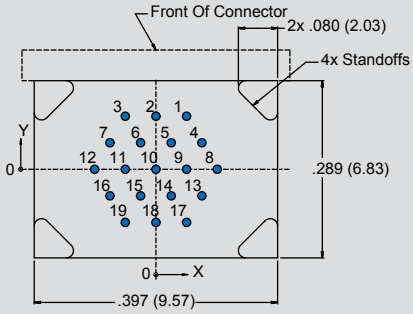
Tag	X Loc	Y Loc	Cont Size
1	.0000	.0420	#23
2	.0375	-.0230	#23
3	-.0375	-.0230	#23

E4M



Tag	X Loc	Y Loc	Cont Size
1	.0325	.0325	Micro
2	-.0325	.0325	Micro
3	.0325	-.0325	Micro
4	-.0325	-.0325	Micro

E19N



Tag	X Loc	Y Loc	Cont Size
1	.0500	.0866	Nano
2	.0000	.0866	Nano
3	-.0500	.0866	Nano
4	.0750	.0433	Nano
5	.0250	.0433	Nano
6	-.0250	.0433	Nano
7	-.0750	.0433	Nano
8	.1000	.0000	Nano
9	.0500	.0000	Nano
10	.0000	.0000	Nano

Tag	X Loc	Y Loc	Cont Size
11	-.0500	.0000	Nano
12	-.1000	.0000	Nano
13	.0750	-.0433	Nano
14	.0250	-.0433	Nano
15	-.0250	-.0433	Nano
16	-.0750	-.0433	Nano
17	.0500	-.0866	Nano
18	.0000	-.0866	Nano
19	-.0500	-.0866	Nano

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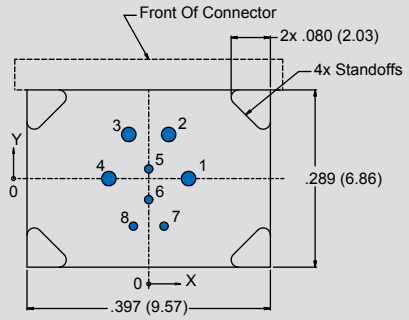
SuperFly® Connectors

Right Angle PCB Footprints

Viewed from rear PC tail side of shrouded (Type B) insert.
Use mirror image for unshrouded (Type A) insert.

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

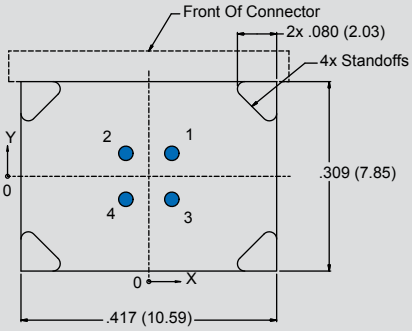
E4M4N



Tag	X Loc	Y Loc	Cont Size
1	.0650	.0000	Micro
2	.0325	.0719	Micro
3	-.0325	.0719	Micro
4	-.0650	.0000	Micro

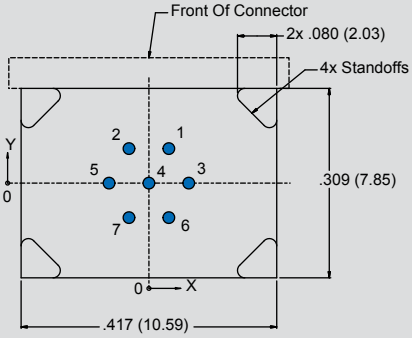
Tag	X Loc	Y Loc	Cont Size
5	.0000	.0156	Nano
6	.0000	-.0344	Nano
7	.0250	-.0777	Nano
8	-.0250	-.0777	Nano

F4W



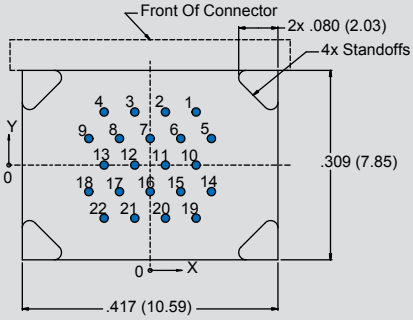
Tag	X Loc	Y Loc	Cont Size
1	.0375	.0375	#23
2	-.0375	.0375	#23
3	.0375	-.0375	#23
4	-.0375	-.0375	#23

F7M



Tag	X Loc	Y Loc	Cont Size
1	.0325	.0563	Micro
2	-.0325	.0563	Micro
3	.0650	.0000	Micro
4	.0000	.0000	Micro
5	-.0650	.0000	Micro
6	.0325	-.0563	Micro
7	-.0325	-.0563	Micro

F22N



Tag	X Loc	Y Loc	Cont Size
1	.0750	.0866	Nano
2	.0250	.0866	Nano
3	-.0250	.0866	Nano
4	-.0750	.0866	Nano
5	.1000	.0433	Nano
6	.0500	.0433	Nano
7	.0000	.0433	Nano
8	-.0500	.0433	Nano
9	-.1000	.0433	Nano
10	.0750	.0000	Nano
11	.0250	.0000	Nano

Tag	X Loc	Y Loc	Cont Size
12	-.0250	.0000	Nano
13	-.0750	.0000	Nano
14	.1000	-.0433	Nano
15	.0500	-.0433	Nano
16	.0000	-.0433	Nano
17	-.0500	-.0433	Nano
18	-.1000	-.0433	Nano
19	.0750	-.0866	Nano
20	.0250	-.0866	Nano
21	-.0250	-.0866	Nano
22	-.0750	-.0866	Nano

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SuperFly® Connectors

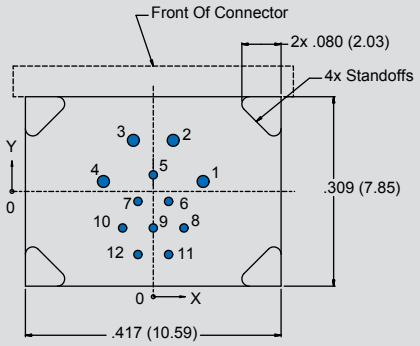
Right Angle PCB Footprints

Viewed from rear PC tail side of shrouded (Type B) insert.
Use mirror image for unshrouded (Type A) insert.

A

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

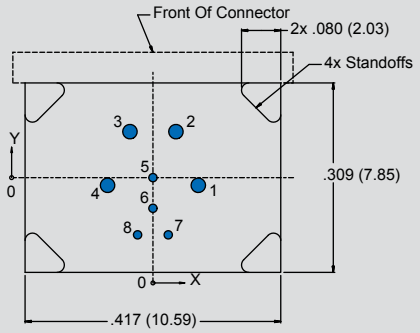
F4M8N



Tag	X Loc	Y Loc	Cont Size
1	.0813	.0162	Micro
2	.0325	.0833	Micro
3	-.0325	.0833	Micro
4	-.0813	.0162	Micro

Tag	X Loc	Y Loc	Cont Size
5	.0000	.0270	Nano
6	.0250	-.0163	Nano
7	-.0250	-.0163	Nano
8	.0500	-.0596	Nano
9	.0000	-.0596	Nano
10	-.0500	-.0596	Nano
11	.0250	-.1029	Nano
12	-.0250	-.1029	Nano

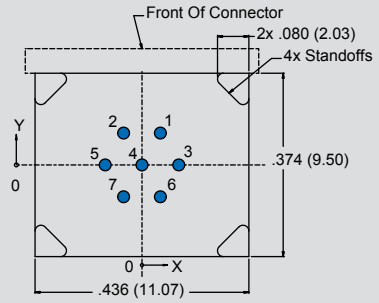
F4W4N



Tag	X Loc	Y Loc	Cont Size
1	.0740	-.0125	#23
2	.0375	.0750	#23
3	-.0375	.0750	#23
4	-.0740	-.0125	#23

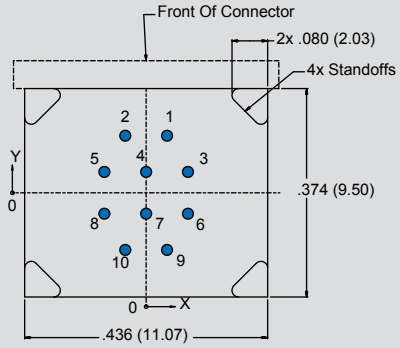
Tag	X Loc	Y Loc	Cont Size
5	.0000	.0000	Nano
6	.0000	-.0500	Nano
7	.0250	-.0933	Nano
8	-.0250	-.0933	Nano

G7W



Tag	X Loc	Y Loc	Cont Size
1	.0375	.0650	#23
2	-.0375	.0650	#23
3	.0750	.0000	#23
4	.0000	.0000	#23
5	-.0750	.0000	#23
6	.0375	-.0650	#23
7	-.0375	-.0650	#23

G10M



Tag	X Loc	Y Loc	Cont Size
1	.0375	.1025	Micro
2	-.0375	.1025	Micro
3	.0750	.0375	Micro
4	.0000	.0375	Micro
5	-.0750	.0375	Micro
6	.0750	-.0375	Micro
7	.0000	-.0375	Micro
8	-.0750	-.0375	Micro
9	.0375	-.1025	Micro
10	-.0375	-.1025	Micro

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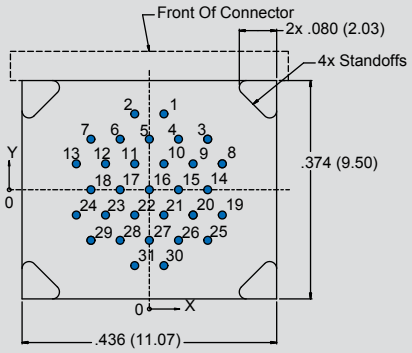
SuperFly® Connectors

Right Angle PCB Footprints

Viewed from rear PC tail side of shrouded (Type B) insert.
Use mirror image for unshrouded (Type A) insert.

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

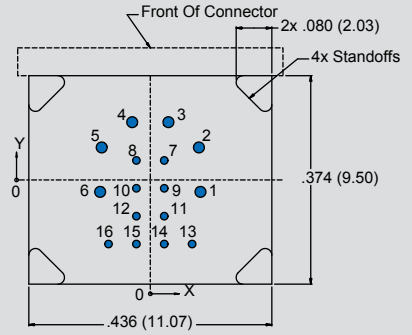
G31N



Tag	X Loc	Y Loc	Cont Size
1	.0250	.1299	Nano
2	-.0250	.1299	Nano
3	.1000	.0866	Nano
4	.0500	.0866	Nano
5	.0000	.0866	Nano
6	-.0500	.0866	Nano
7	-.1000	.0866	Nano
8	.1250	.0433	Nano
9	.0750	.0433	Nano
10	.0250	.0433	Nano
11	-.0250	.0433	Nano
12	-.0750	.0433	Nano
13	-.1250	.0433	Nano
14	.1000	.0000	Nano
15	.0500	.0000	Nano
16	.0000	.0000	Nano

Tag	X Loc	Y Loc	Cont Size
17	-.0500	.0000	Nano
18	-.1000	.0000	Nano
19	.1250	-.0433	Nano
20	.0750	-.0433	Nano
21	.0250	-.0433	Nano
22	-.0250	-.0433	Nano
23	-.0750	-.0433	Nano
24	-.1250	-.0433	Nano
25	.1000	-.0866	Nano
26	.0500	-.0866	Nano
27	.0000	-.0866	Nano
28	-.0500	-.0866	Nano
29	-.1000	-.0866	Nano
30	.0250	-.1299	Nano
31	-.0250	-.1299	Nano

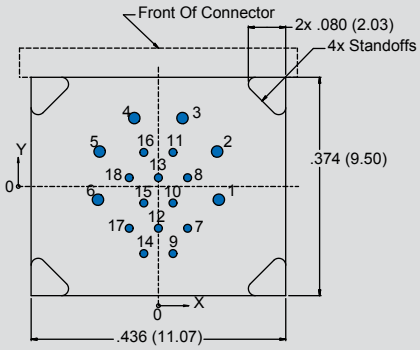
G6M10N



Tag	X Loc	Y Loc	Cont Size
1	.0900	-.0214	Micro
2	.0872	.0583	Micro
3	.0325	.1037	Micro
4	-.0325	.1037	Micro
5	-.0872	.0583	Micro
6	-.0900	-.0214	Micro

Tag	X Loc	Y Loc	Cont Size
7	.0250	.0350	Nano
8	-.0250	.0350	Nano
9	.0250	-.0150	Nano
10	-.0250	-.0150	Nano
11	.0250	-.0650	Nano
12	-.0250	-.0650	Nano
13	.0750	-.1150	Nano
14	.0250	-.1150	Nano
15	-.0250	-.1150	Nano
16	-.0750	-.1150	Nano

G6M12N



Tag	X Loc	Y Loc	Cont Size
1	.1035	-.0227	Micro
2	.1006	.0598	Micro
3	.0413	.1171	Micro
4	-.0413	.1171	Micro
5	-.1006	.0598	Micro
6	-.1035	-.0227	Micro

Tag	X Loc	Y Loc	Cont Size
7	.0500	-.0716	Nano
8	.0500	.0150	Nano
9	.0250	.1149	Nano
10	.0250	-.0283	Nano
11	.0250	.0583	Nano
12	.0000	-.0716	Nano
13	.0000	.0150	Nano
14	-.0250	-.1149	Nano
15	-.0250	-.0283	Nano
16	-.0250	.0583	Nano
17	-.0500	-.0716	Nano
18	-.0500	.0150	Nano

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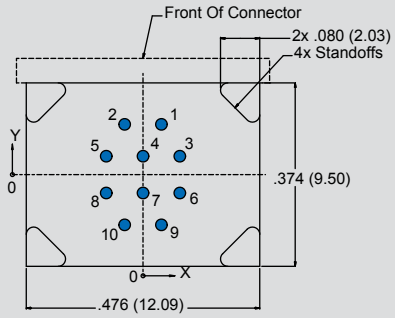
SuperFly® Connectors

Right Angle PCB Footprints

Viewed from rear PC tail side of shrouded (Type B) insert.
Use mirror image for unshrouded (Type A) insert.

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

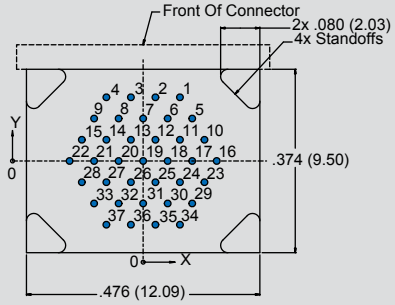
H10W



Tag	X Loc	Y Loc	Cont Size
1	.0375	.1025	#23
2	-.0375	.1025	#23
3	.0750	.0375	#23
4	.0000	.0375	#23
5	-.0750	.0375	#23

Tag	X Loc	Y Loc	Cont Size
6	.0750	-.0375	#23
7	.0000	-.0375	#23
8	-.0750	-.0375	#23
9	.0375	-.1025	#23
10	-.0375	-.1025	#23

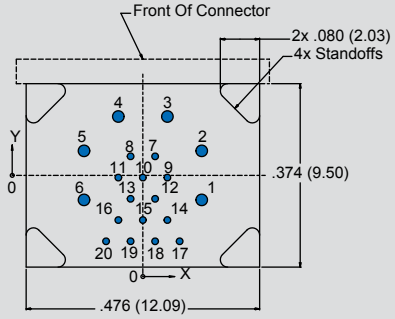
H37N



Tag	X Loc	Y Loc	Cont Size
1	.0750	.1299	Nano
2	.0250	.1299	Nano
3	-.0250	.1299	Nano
4	-.0750	.1299	Nano
5	.1000	.0866	Nano
6	.0500	.0866	Nano
7	.0000	.0866	Nano
8	-.0500	.0866	Nano
9	-.1000	.0866	Nano
10	.1250	.0433	Nano
11.	.0750	.0433	Nano
12	.0250	.0433	Nano
13	-.0250	.0433	Nano
14	-.0750	.0433	Nano
15	-.1250	.0433	Nano
16	.1500	.0000	Nano
17	.1000	.0000	Nano
18	.0500	.0000	Nano
19	.0000	.0000	Nano

Tag	X Loc	Y Loc	Cont Size
20	-.0500	.0000	Nano
21	-.1000	.0000	Nano
22	-.1500	.0000	Nano
23	.1250	-.0433	Nano
24	.0750	-.0433	Nano
25	.0250	-.0433	Nano
26	-.0250	-.0433	Nano
27	-.0750	-.0433	Nano
28	-.1250	-.0433	Nano
29	.1000	-.0866	Nano
30	.0500	-.0866	Nano
31	.0000	-.0866	Nano
32	-.0500	-.0866	Nano
33	-.1000	-.0866	Nano
34	.0750	-.1299	Nano
35	.0250	-.1299	Nano
36	-.0250	-.1299	Nano
37	-.0750	-.1299	Nano

H6W14N



Tag	X Loc	Y Loc	Cont Size
1	.1200	-.0500	#23
2	.1200	.0500	#23
3	.0500	.1200	#23
4	-.0500	.1200	#23
5	-.1200	.0500	#23
6	-.1200	-.0500	#23

Tag	X Loc	Y Loc	Cont Size
7	.0250	.0388	Nano
8	-.0250	.0388	Nano
9	.0500	-.0045	Nano
10	.0000	-.0045	Nano
11	-.0500	-.0045	Nano
12	.0250	-.0478	Nano
13	-.0250	-.0478	Nano
14	.0500	-.0911	Nano
15	.0000	-.0911	Nano
16	-.0500	-.0911	Nano
17	.0750	-.1344	Nano
18	.0250	-.1344	Nano
19	-.0250	-.1344	Nano
20	-.0750	-.1344	Nano

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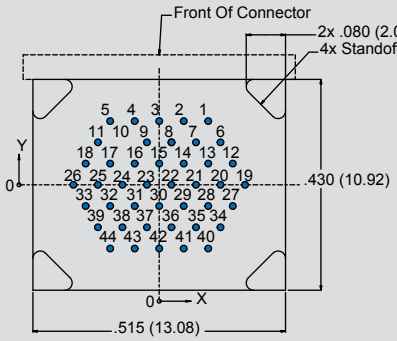
Right Angle PCB Footprints

Viewed from rear PC tail side of shrouded (Type B) insert.
Use mirror image for unshrouded (Type A) insert.

PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

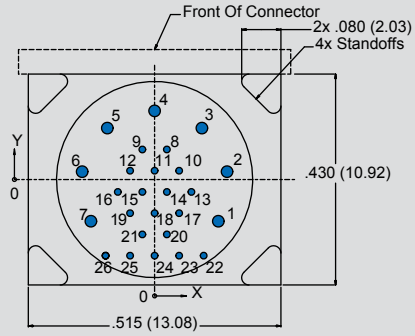
Insert Arrangement	PCB Footprint	Contact Location

J44N



Tag	X Loc	Y Loc	Cont Size	Tag	X Loc	Y Loc	Cont Size
1	.1000	.1299	Nano	23	-.0250	.0000	Nano
2	.0500	.1299	Nano	24	-.0750	.0000	Nano
3	.0000	.1299	Nano	25	-.1250	.0000	Nano
4	-.0500	.1299	Nano	26	-.1750	.0000	Nano
5	-.1000	.1299	Nano	27	.1500	-.0433	Nano
6	.1250	.0866	Nano	28	.1000	-.0433	Nano
7	.0750	.0866	Nano	29	.0500	-.0433	Nano
8	.0250	.0866	Nano	30	.0000	-.0433	Nano
9	-.0250	.0866	Nano	31	-.0500	-.0433	Nano
10	-.0750	.0866	Nano	32	-.1000	-.0433	Nano
11	-.1250	.0866	Nano	33	-.1500	-.0433	Nano
12	.1500	.0433	Nano	34	.1250	-.0866	Nano
13	.1000	.0433	Nano	35	-.0750	-.0866	Nano
14	.0500	.0433	Nano	36	.0250	-.0866	Nano
15	.0000	.0433	Nano	37	-.0250	-.0866	Nano
16	-.0500	.0433	Nano	38	-.0750	-.0866	Nano
17	-.1000	.0433	Nano	39	-.1250	-.0866	Nano
18	-.1500	.0433	Nano	40	.1000	-.1299	Nano
19	.1750	.0000	Nano	41	.0500	-.1299	Nano
20	.1250	.0000	Nano	42	.0000	-.1299	Nano
21	.0750	.0000	Nano	43	-.0500	-.1299	Nano
22	.0250	.0000	Nano	44	-.1000	-.1299	Nano

J7W19N



Tag	X Loc	Y Loc	Cont Size
1	.1299	-.0850	#23
2	.1477	.0160	#23
3	.0964	.1049	#23
4	.0000	.1400	#23
5	-.0964	.1049	#23
6	-.1477	.0160	#23
7	-.1299	-.0850	#23

Tag	X Loc	Y Loc	Cont Size
8	.0250	.0613	Nano
9	-.0250	.0613	Nano
10	.0500	.0180	Nano
11	.0000	.0180	Nano
12	-.0500	.0180	Nano
13	.0750	-.0253	Nano
14	.0250	-.0253	Nano
15	-.0250	-.0253	Nano
16	-.0750	-.0253	Nano
17	.0500	-.0686	Nano
18	.0000	-.0686	Nano
19	-.0500	-.0686	Nano
20	.0250	-.1119	Nano
21	-.0250	-.1119	Nano
22	.1000	-.1552	Nano
23	.0500	-.1552	Nano
24	.0000	-.1552	Nano
25	-.0500	-.1552	Nano
26	-.1000	-.1552	Nano

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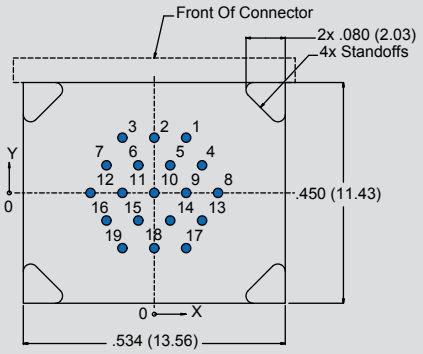
SuperFly® Connectors

Right Angle PCB Footprints

Viewed from rear PC tail side of unshrouded (Type A) insert.
Use mirror image for shrouded (Type B) insert.

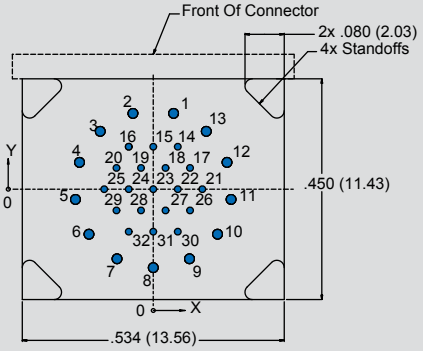
PC Tail Wire Diameter By Contact Size	#23 contact uses #24 wire Ø.020	Micro contact uses #26 wire Ø.016	Nano contact uses #30 wire Ø.010

K19M



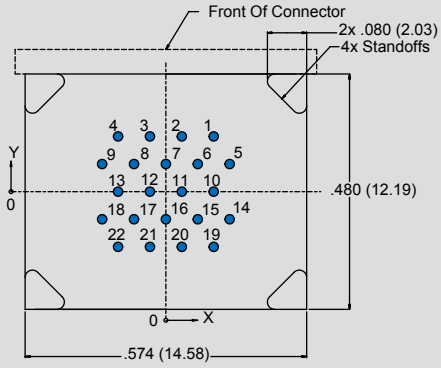
Tag	X Loc	Y Loc	Cont Size	Tag	X Loc	Y Loc	Cont Size
1	.0650	.1126	Micro	11	-.0650	.0000	Micro
2	.0000	.1126	Micro	12	-.1300	.0000	Micro
3	-.0650	.1126	Micro	13	.0975	-.0563	Micro
4	.0975	.0563	Micro	14	.0325	-.0563	Micro
5	.0325	.0563	Micro	15	-.0325	-.0563	Micro
6	-.0325	.0563	Micro	16	-.0975	-.0563	Micro
7	-.0975	.0563	Micro	17	.0650	-.1126	Micro
8	.1300	.0000	Micro	18	.0000	-.1126	Micro
9	.0650	.0000	Micro	19	-.0650	-.1126	Micro
10	.0000	.0000	Micro				

K13M19N



Tag	X Loc	Y Loc	Cont Size	Tag	X Loc	Y Loc	Cont Size
1	.0415	.1546	Micro	17	.0750	.0433	Nano
2	-.0415	.1546	Micro	18	.0250	.0433	Nano
3	-.1081	.1180	Micro	19	-.0250	.0433	Nano
4	-.1504	.0548	Micro	20	-.0750	.0433	Nano
5	-.1587	-.0209	Micro	21	.1000	.0000	Nano
6	-.1311	-.0918	Micro	22	.0500	.0000	Nano
7	-.0739	-.1420	Micro	23	.0000	.0000	Nano
8	.0000	-.1600	Micro	24	-.0500	.0000	Nano
9	.0739	-.1420	Micro	25	-.1000	.0000	Nano
10	.1311	-.0918	Micro	26	.0750	-.0433	Nano
11	.1587	-.0209	Micro	27	.0250	-.0433	Nano
12	.1504	.0548	Micro	28	-.0250	-.0433	Nano
13	.1081	.1180	Micro	29	-.0750	-.0433	Nano
14	.0500	.0866	Micro	30	.0500	-.0866	Nano
15	.0000	.0866	Micro	31	.0000	-.0866	Nano
16	-.0500	.0866	Micro	32	-.0500	-.0866	Nano

L22M



Tag	X Loc	Y Loc	Cont Size	Tag	X Loc	Y Loc	Cont Size
1	.0975	.1126	Micro	12	-.0325	.0000	Micro
2	.0325	.1126	Micro	13	-.0975	.0000	Micro
3	-.0325	.1126	Micro	14	.1300	-.0563	Micro
4	-.0975	.1126	Micro	15	.0650	-.0563	Micro
5	.1300	.0563	Micro	16	.0000	-.0563	Micro
6	.0650	.0563	Micro	17	-.0650	-.0563	Micro
7	.0000	.0563	Micro	18	-.1300	-.0563	Micro
8	-.0650	.0563	Micro	19	.0975	-.1126	Micro
9	-.1300	.0563	Micro	20	.0325	-.1126	Micro
10	.0975	.0000	Micro	21	-.0325	-.1126	Micro
11	.0325	.0000	Micro	22	-.0975	-.1126	Micro

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SERIES 880
QDC COUPLING

Quick Disconnect Connectors Pigtail, PCB and Solder Cup

Superior ease of use and outstanding high-speed data performance



Glenair Series 880 Quick Disconnect (QDC) SuperFly® connectors merge miniaturized quick disconnect technology with our weight saving nanominature, microminiature and AS39029 type (size #23) contacts. Machine aluminum or stainless steel housings provide rugged durability. All SuperFly® connectors are IP67 rated in mated condition. Available in factory-terminated cordsets, single-ended pigtails, solder cup, and discrete PCB termination receptacles for complete flexibility in cable and box configurations. QDC SuperFly connectors are available with a variety of cabling options (see Section D), including ultraflexible GhostWire or impedance-controlled twisted pairs for high-speed applications and a wide-range of insert arrangements from 3–44 contacts.

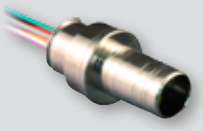
Glenair, Inc.
1211 Air Way
Glendale, CA 91201-2497
818-247-6000
sales@glenair.com
www.glenair.com

SERIES 880

Quick Disconnect

Product Selection Guide

Pigtail Connectors



880-001P
Cable Plug, Pigtail Wires

Page 4



880-002R
Cable Receptacle, Pigtail Wires

Page 6



880-009P
Front Panel Mount Plug, Pigtail Wires

Page 8



880-003R
Front Panel Mount Receptacle, Pigtail Wires

Page 10



880-010P
Rear Panel Mount Plug, Pigtail Wires

Page 12



880-004R
Rear Panel Mount Receptacle, Pigtail Wires

Page 14

PCB Connectors



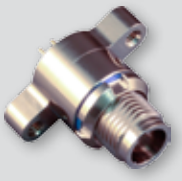
880-033P
Rear Panel Mount, Vertical PCB Plug

Page 16



880-032R
Rear Panel Mount, Vertical PCB Receptacle

Page 18



880-041R
Rear Panel Mount, Vertical PCB Receptacle with Mounting Holes

Page 20



880-042R
Rear Panel Mount, Vertical PCB Receptacle with Ground Pins

Page 22



880-030R
Rear Panel Mount, Right Angle PCB Receptacle

Page 24



880-037R
Rear Panel Mount, Right Angle PCB Receptacle with Mounting Holes

Page 26

Solder Cup Connectors



880-025P
Cable Plug, Solder Cup

Page 28



880-026R
Cable Receptacle, Solder Cup

Page 30

B

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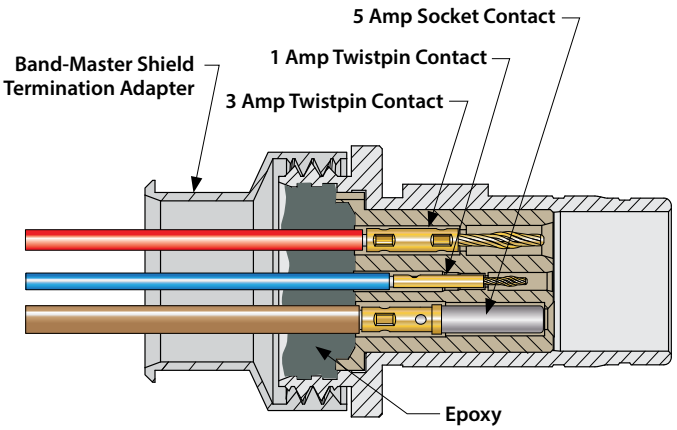


SERIES 880

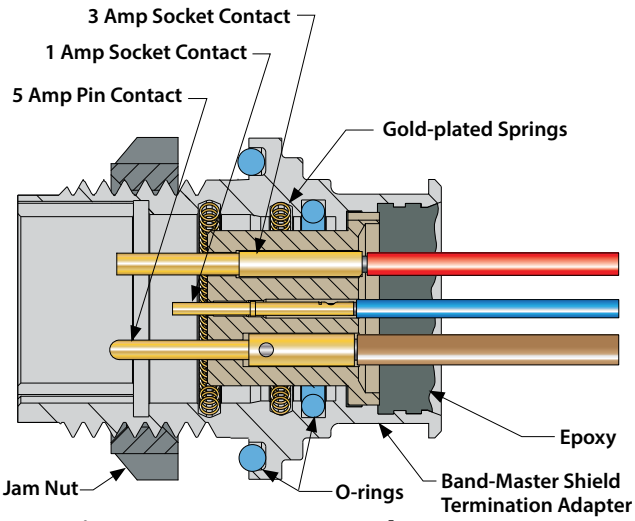
QDC SuperFly® Connectors

Compact, ultralightweight SuperFly® QDC connectors feature push-pull coupling, EMI shielding and IP67 ingress protection. Available in a 27 layouts and 10 shell sizes for high-speed applications such as audio, video or data and power applications. Series 880 connectors are ideal for man-portable electronics where size and weight are prime considerations.

- **Lightweight, Low Profile**
- **Three contact sizes: 5 amp, 3 amp and 1 amp**
- **EMI Shielding**
- **High Speed and Power Applications**
- **Aluminum or SST**
- **Meets MIL-STD-810 environmental requirements**



Series 880 QDC Plug



Series 880 QDC Receptacle

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SERIES 880

SuperFly® Quick Disconnect

Connector Properties Overview

ABOUT SUPERFLY® MATERIALS AND FINISHES

Four standard material and finish options are available.

1. Aluminum shell with ***Electroless Nickel*** (EN). High reflectivity and poor corrosion resistance make nickel a poor choice for tactical systems, but nickel is preferred for avionics systems, space vehicles, medical equipment and test gear where corrosion is not a primary concern. Nickel is highly conductive and is excellent for EMI-protected systems.
2. Aluminum shell with ***Black Zinc-Nickel*** (Zn-Ni). Although less conductive than other finishes, non-reflective black Zn-Ni is a typical choice for soldier gear and is RoHS compliant. Corrosion resistance is good.
3. Aluminum shell with ***Electroless Nickel-PTFE*** (EN-PTFE). Excellent durability, corrosion resistance and conductivity. Non-reflective EN-PTFE is a primary choice for any harsh environment. Inherently lubricious, resists galling.
4. Aluminum shell with ***Olive Drab or Cadmium*** (OD over Cad). excellent, corrosion resistance and excellent conductivity. Non-reflective OD over Cad is a primary choice for defense and aerospace applications. Inherently lubricious, resists galling.
5. Stainless steel shell with ***Zinc-Cobalt*** (ZN-CO). Excellent durability, corrosion resistance and conductivity. Non-reflective black finish is an excellent choice for any harsh environment.
6. Stainless steel, **Passivated** finish. Excellent corrosion resistance, good conductivity. A good choice for high corrosion areas where EMI shielding is not a primary concern. Suitable for most aerospace and tactical gear.
7. Stainless steel, **Ni-PTFE** finish. Excellent corrosion resistance and excellent conductivity. A good choice for high corrosion areas where EMI shielding is a primary concern. Highly conductive, non-reflective Ni-PTFE finish is suitable for all aerospace and tactical systems.

Material and Finish Comparison Data							
Identification	1	2	3	4	5	6	7
Material and Finish	Aluminum Electroless Nickel	Aluminum Black Zinc-Nickel	Aluminum Electoless Nickel-PTFE	Aluminum Olive Drab over Cadmium	Stainless Steel Black Zinc-Cobalt	Stainless Steel Passivated	Stainless Steel Electroless Nickel-PTFE
Glenair Code	M	ZR	MT	NF	ZC	ZK	ZMT
Corrosion Resistance	Poor	Good	Excellent	Very Good	Excellent	Excellent	Excellent
RoHS Compliance*	Yes	Yes	Yes	No	No	Yes	Yes
Conductivity	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent
Reflectivity	Reflective	Non-reflective	Non-reflective	Non-reflective	Non-reflective	Reflective	Non-reflective
Cost	$	$$	$$	$$	$$$$	$$$$	$$$$

* Meets DoD directives and European regulations for elimination of cadmium and hexavalent chromate.

Product Specifications			
Current Rating (Size)	5A (#23)	3A (Micro)	1A (Nano)
Wire Size	#22-28 AWG	#24-30 AWG	#28-32 AWG
Dielectric Withstanding Voltage	500Vac	600Vac	250Vac
Contact Resistance	20 milliohms	32 milliohms	80 milliohms
Temperature Range	-55°C to +150°C		
Durability (mating cycles)	2000		
Corrosion (salt fog)	Nickel finish 48 hours, other finishes 500 hours		
Water Immersion,Mated	MIL-STD-810 Method 512, 1 meter, 1 hour		
Ingress Protection	IP 67		
Vibration	37g		
Shock	300g		

Materials and Finishes	
Property	Description
Insulator	Thermoplastic, glass-filled
Shell	Aluminum or stainless steel
1A. Contact	Precious metal alloy pin, gold-plated copper alloy socket
3A. and 5A. Contact	Copper alloy, 50 microinches gold over nickel finish
Encapsulant	Epoxy
Wire	**Space Grade** High strength silver-coated copper alloy, ETFE insulation (M22759/33) or equivalent

Quick Disconnect

880-001P Cable Plug with Pigtail Wires and Integral Banding Porch



Series 880 Quick-Disconnect (QDC) cable plugs are pre-wired and sealed with epoxy. Features an integral shield termination platform and Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangement	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example: K13M19N

NOTES

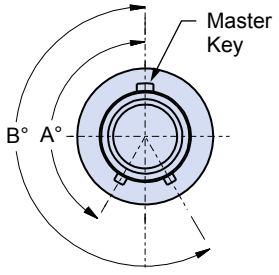
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

How To Order								
Sample Part Number	880-001P	A	-B7N	-M	004	J	1	-24
Series	880-001P							
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts Shrouded contacts are recessed within the insulator							
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table							
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant							
Wire AWG	See Wire Code Table							
Wire Type	**J** = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	**1** = White **5** = Full Color; 1-10 solid color, 11 and up are striped **7** = 10 Color Repeating; Wire #1 black, Wire #11 black, etc							
Wire Length	Overall length ('L') in inches measured from front of connector							

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 880-001PA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



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Quick Disconnect

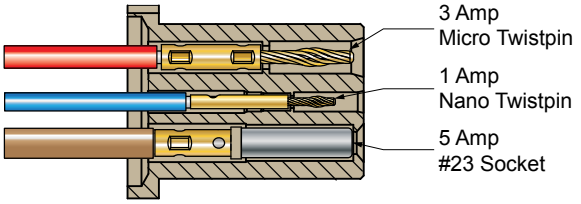
880-001P Cable Plug with Pigtail Wires and Integral Banding Porch

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

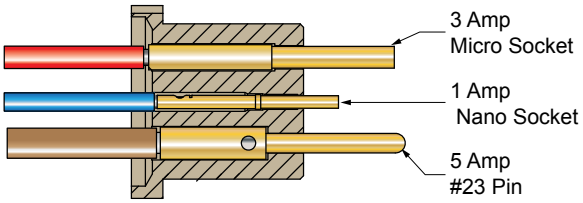
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

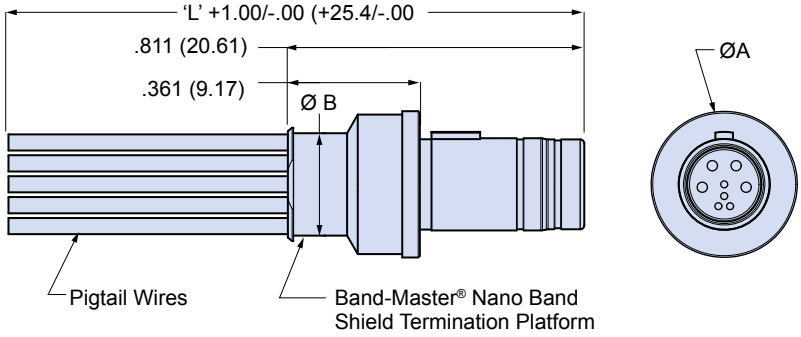
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions				
Shell Size	A Max OD		B Rear OD	
	In.	mm.	In.	mm.
B	.317	8.05	.197	5.00
C	.342	8.69	.222	5.64
D	.355	9.02	.235	5.97
E	.381	9.68	.261	6.63
F	.400	10.16	.280	7.11
G	.422	10.72	.302	7.67
H	.459	11.66	.339	8.61
J	.487	12.37	.369	9.37
K	.509	12.93	.391	9.93
L	.548	13.92	.430	10.92

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Quick Disconnect

880-002R Cable Receptacle with Pigtail Wires and Integral Banding Porch



Series 880 Quick-Disconnect (QDC) cable receptacles are pre-wired and sealed with epoxy. In-line receptacle has integral shield termination platform and Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements

Insert Arrangement	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example: K13M19N

How To Order

Sample Part Number	880-002R	A	-B7N	-M	004	J	1	-24
Series	880-002R							
Insert Style	A = Unshrouded Contacts B = Shrouded Contacts Shrouded contacts are recessed within the insulator							
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table							
Material/ Finish[2]	M = Aluminum/electroless nickel RoHS compliant ZR = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate MT = Aluminum/nickel-PTFE RoHS compliant ZMT = Stainless steel/nickel-PTFE RoHS compliant							
Wire AWG	See Wire Code Table							
Wire Type	J = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	1 = White 5 = Full Color; 1-10 solid color, 11 and up are striped 7 = 10 Color Repeating; Wire #1 black, Wire #11 black, etc							
Wire Length	Overall length ('L') in inches measured from front of connector							

NOTES

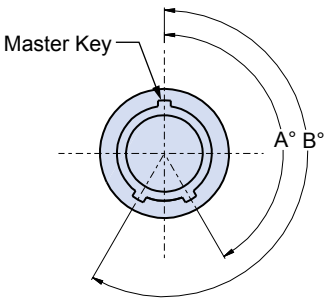
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 880-002RA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions

Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



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Quick Disconnect

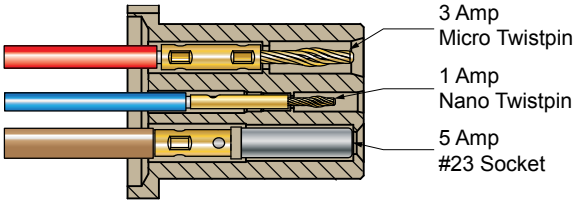
880-002R Cable Receptacle with Pigtail Wires and Integral Banding Porch

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

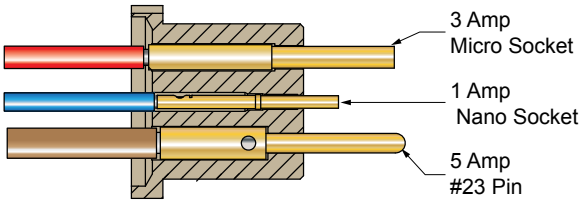
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

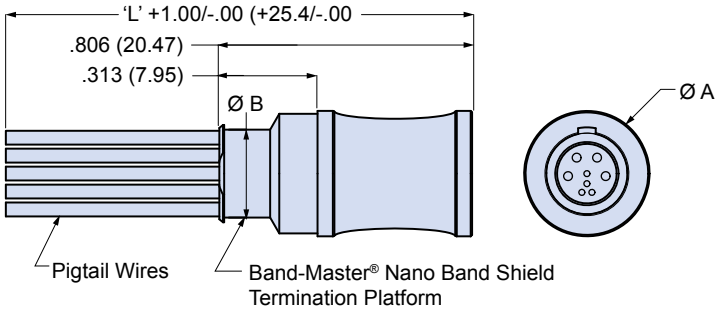
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions				
Shell Size	Ø A MAX		Ø B	
	In.	mm.	In.	mm.
B	.317	8.05	.197	5.00
C	.342	8.69	.222	5.64
D	.355	9.02	.235	5.97
E	.381	9.68	.261	6.63
F	.400	10.16	.280	7.11
G	.422	10.72	.302	7.67
H	.459	11.66	.339	8.61
J	.487	12.37	.369	9.37
K	.509	12.93	.391	9.93
L	.548	13.92	.430	10.92

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

Quick Disconnect

880-009P Front Panel Mount Plug with Pigtail Wires



Series 880 Quick-Disconnect (QDC) front panel mount plugs are pre-wired and sealed with epoxy. Supplied with jam nut and o-ring. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example: K13M19N

NOTES

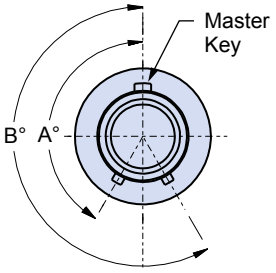
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

How To Order								
Sample Part Number	880-009P	A	-B7N	-M	004	J	1	-24
Series	880-009P							
Insert Style	A = Unshrouded Contacts B = Shrouded Contacts Shrouded contacts are recessed within the insulator							
Shell Size/ Insert Arr.1	See Shell Size and Insert Arrangement Table							
Material/ Finish²	M = Aluminum/electroless nickel RoHS compliant ZR = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate MT = Aluminum/nickel-PTFE RoHS compliant ZMT = Stainless steel/nickel-PTFE RoHS compliant							
Wire AWG	See Wire Code Table							
Wire Type	J = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	1 = White 5 = Full Color; 1-10 solid color, 11 and up are striped 7 = 10 Color Repeating; Wire #1 black, Wire #11 black, etc							
Wire Length	Overall length ('L') in inches measured from front of connector							

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 880-009PA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions		
Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-009PA-B7N-M004J1-24-**518**

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Quick Disconnect

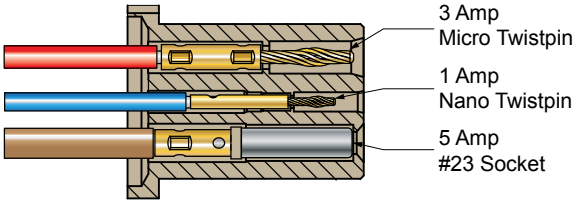
880-009P Front Panel Mount Plug with Pigtail Wires

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

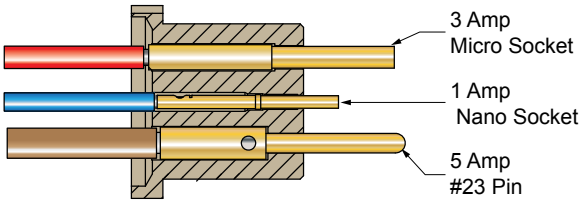
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

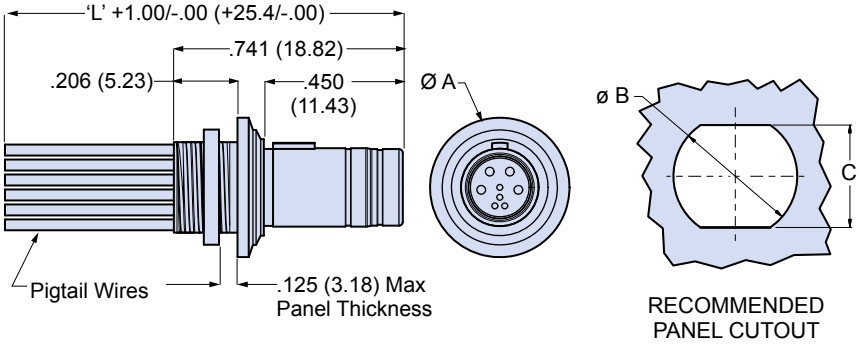
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions						
Shell Size	A Max OD		B Mount Ø		C Flats	
	In.	mm.	In.	mm.	In.	mm.
B	.392	9.96	.283	7.19	.241	6.12
C	.412	10.46	.305	7.75	.261	6.63
D	.432	10.97	.324	8.23	.281	7.14
E	.451	11.46	.344	8.74	.300	7.62
F	.471	11.96	.364	9.25	.320	8.13
G	.490	12.45	.383	9.73	.340	8.64
H	.530	13.46	.419	10.64	.379	9.63
J	.569	14.45	.459	11.66	.418	10.62
K	.589	14.96	.478	12.14	.438	11.13
L	.628	15.95	.518	13.16	.478	12.14

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Quick Disconnect

880-003R Front Panel Mount Receptacle with Pigtail Wires



Series 880 Quick-Disconnect (QDC) front panel mount receptacles are pre-wired and sealed with epoxy. Integral shield termination platform. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

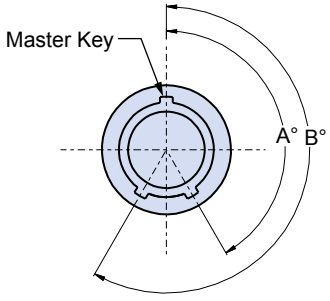
First letter of insert arrangement represents connector shell size, as in this example: K13M19N

Sample Part Number	880-003R	A	-B7N	-M	004	J	1	-24
Series	880-003R							
Insert Style	A = Unshrouded Contacts B = Shrouded Contacts Shrouded contacts are recessed within the insulator							
Shell Size/ Insert Arr.1	See Shell Size and Insert Arrangement Table							
Material/ Finish[2]	M = Aluminum/electroless nickel RoHS compliant ZR = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate MT = Aluminum/nickel-PTFE RoHS compliant ZMT = Stainless steel/nickel-PTFE RoHS compliant							
Wire AWG	See Wire Code Table							
Wire Type	J = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	1 = White 5 = Full Color; 1-10 solid color, 11 and up are striped 7 = 10 Color Repeating; (Wire #1 black, Wire #11 black, etc)							
Wire Length	Overall length ('L') in inches measured from front of connector							

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 880-003RA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions		
Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-003RA-B7N-M004J1-24-**518**

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

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Quick Disconnect

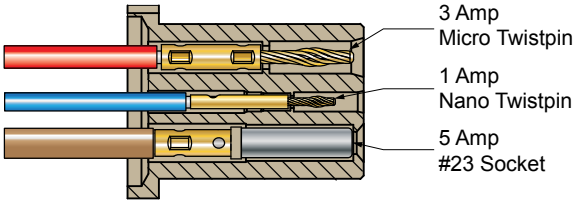
880-003R Front Panel Mount Receptacle with Pigtail Wires

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

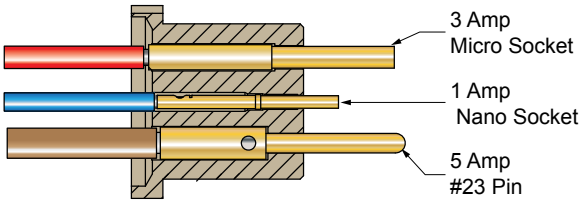
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

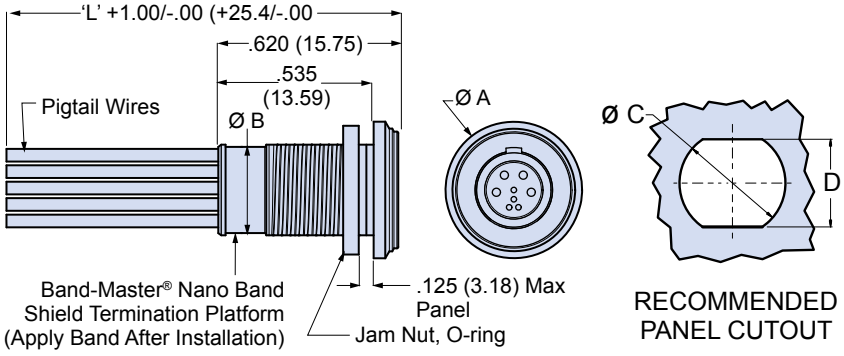
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions								
Shell Size	A Max OD		B Rear OD		C Mount Dia		D Flats	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.
B	.392	9.96	.214	5.44	.283	7.19	.241	6.12
C	.412	10.46	.239	6.07	.305	7.75	.261	6.63
D	.432	10.97	.252	6.40	.324	8.23	.281	7.14
E	.451	11.46	.278	7.06	.344	8.74	.300	7.62
F	.471	11.96	.297	7.54	.364	9.25	.320	8.13
G	.490	12.45	.319	8.10	.383	9.73	.340	8.64
H	.530	13.46	.356	9.04	.419	10.64	.379	9.63
J	.569	14.45	.384	9.75	.459	11.66	.418	10.62
K	.589	14.96	.406	10.31	.478	12.14	.438	11.13
L	.628	15.95	.445	11.30	.518	13.16	.478	12.14

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Quick Disconnect

880-010P Rear Panel Mount Plug with Pigtail Wires



Series 880 Quick-Disconnect (QDC) rear panel mount plugs are pre-wired and sealed with epoxy. Supplied with jam nut and o-ring. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

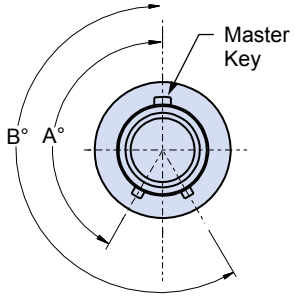
First letter of insert arrangement represents connector shell size, as in this example: K13M19N

How To Order								
Sample Part Number	880-010P	A	-B7N	-M	004	J	1	-24
Series	880-010P							
Insert Style	A = Unshrouded Contacts B = Shrouded Contacts Shrouded contacts are recessed within the insulator							
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table							
Material/ Finish[2]	M = Aluminum/electroless nickel RoHS compliant ZR = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate MT = Aluminum/nickel-PTFE RoHS compliant ZMT = Stainless steel/nickel-PTFE RoHS compliant							
Wire AWG	See Wire Code Table							
Wire Type	J = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	1 = White 5 = Full Color; 1-10 solid color, 11 and up are striped 7 = 10 Color Repeating; Wire #1 black, Wire #11 black, etc							
Wire Length	Overall length ('L') in inches measured from front of connector							

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 880-010PA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions		
Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-010PA-B7N-M004J1-24-**518**

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

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Quick Disconnect

880-010P Rear Panel Mount Plug with Pigtail Wires

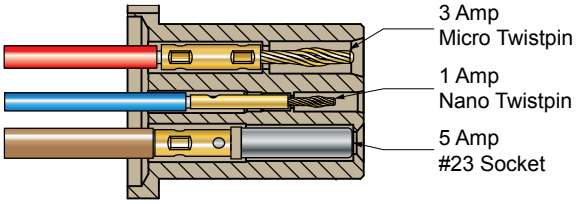
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

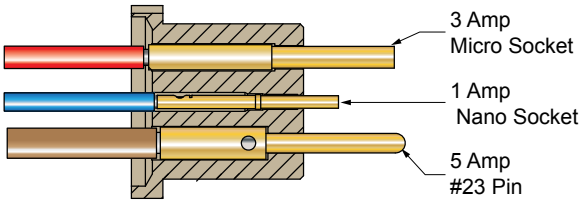
Wire Code Table

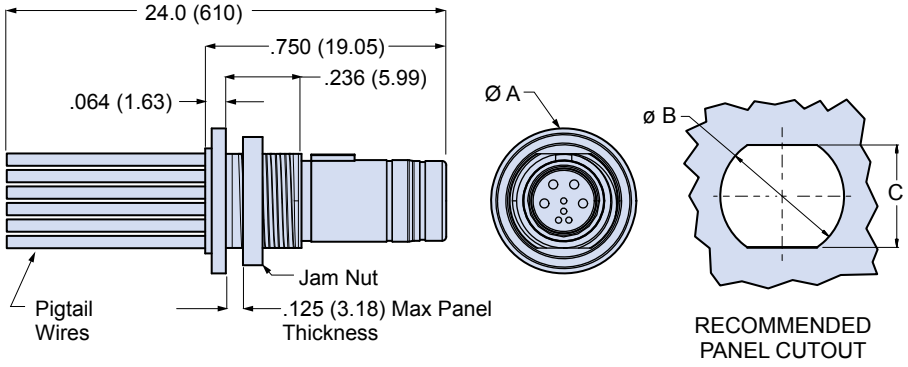
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
Layouts with 5A. Contacts				
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions

Shell Size	A Max OD		B Mount Ø		C Flats	
	In.	mm.	In.	mm.	In.	mm.
B	.392	9.96	.283	7.19	.241	6.12
C	.412	10.46	.305	7.75	.261	6.63
D	.432	10.97	.324	8.29	.281	7.14
E	.451	11.46	.344	8.74	.300	7.62
F	.471	11.96	.364	9.25	.320	8.13
G	.490	12.45	.383	9.73	.340	8.64
H	.530	13.46	.419	10.64	.379	9.63
J	.569	14.45	.459	11.66	.418	10.62
K	.589	14.96	.478	12.14	.438	11.13
L	.628	15.95	.518	13.16	.478	12.14

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Quick Disconnect

880-004R Rear Panel Mount Receptacle with Pigtail Wires



Series 880 Quick-Disconnect (QDC) rear panel mount receptacles are pre-wired and sealed with epoxy. Integral shield termination platform. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector w example: K13M19N

How To Order								
Sample Part Number	880-004R	A	-B7N	-M	004	J	1	-24
Series	880-004R							
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts recessed within insulator							
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table							
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant							
Wiring AWG	See Wire Code Table							
Wiring Type	**J** = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	**1** = White **5** = Full Color; 1-10 solid color, 11 and up are striped **7** = 10 Color Repeating (Wire #1 black, Wire #11 black, etc)							
Wire Length	Overall length ('L') in inches measured from front of connector							

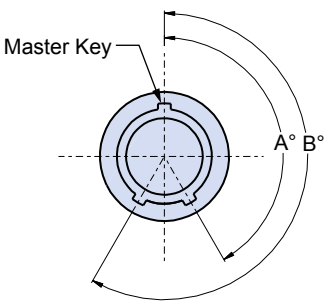
NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 880-004RA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-004RA-B7N-M004J1-24-**518**

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Quick Disconnect

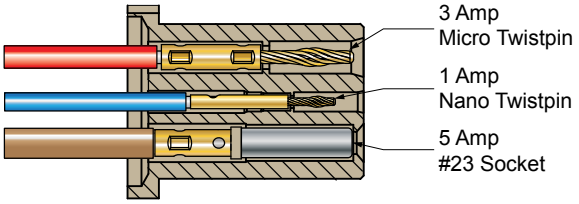
880-004R Rear Panel Mount Receptacle with Pigtail Wires

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

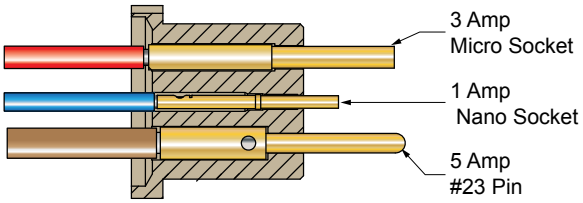
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

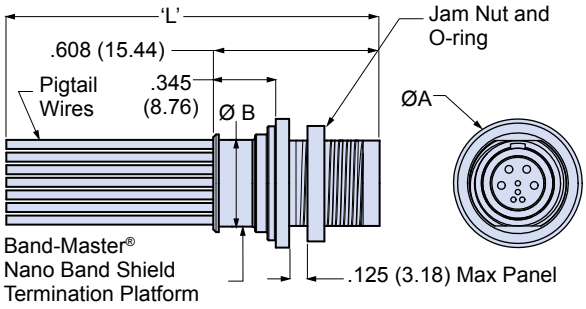
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

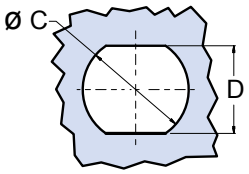
Shrouded
Type B Insert



Unshrouded
Type A Insert







RECOMMENDED
PANEL CUTOUT

Dimensions								
Shell Size	Ø A Max		B		C		Ø D	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.
B	.392	9.96	.234	5.94	.283	7.19	.241	6.12
C	.412	9.96	.259	6.58	.305	7.75	.261	6.63
D	.432	10.97	.272	6.91	.324	8.23	.281	7.14
E	.451	11.46	.298	7.57	.344	8.74	.300	7.62
F	.471	11.96	.317	8.05	.364	9.25	.320	8.13
G	.490	12.45	.339	8.61	.383	9.73	.340	8.64
H	.530	13.46	.376	9.55	.419	10.64	.379	9.63
J	.569	14.45	.401	10.19	.459	11.66	.418	10.62
K	.589	14.96	.421	10.69	.478	12.14	.438	11.13
L	.628	15.95	.460	11.68	.518	13.16	.478	12.14

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Quick Disconnect

880-033P Rear Panel Mount, Vertical PCB Plug



Series 880 Quick-Disconnect (QDC) rear panel mount, vertical PCB Plugs are sealed with epoxy and meet IP67 requirements in mated condition. For open face sealing in an unmated condition request modification code -518. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulator. High performance crimp contacts factory terminated to solid copper wire. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

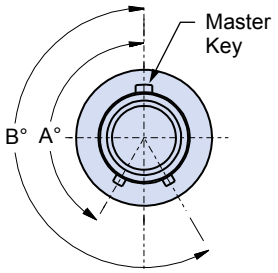
First letter of insert arrangement represents connector shell size, as in this example: **K**13M19N

How To Order						
Sample Part Number	**880-033P**	**A**	**-B7N**	**-M**	**S**	**-.125**
Series	**880-033P**					
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts recessed within insulator					
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table					
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
PC Tail Finish	**S** = Solder-dipped in 63/37 tin-lead **G** = Gold Plated					
PC Tail Length	**.080**, **.125**, **.175**; Length ('L') in inches					

MOD-686 POLARIZING OPTIONS

Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 880-033PA-B7N-MS-.125-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-033PA-B7N-MS-.125-**518**

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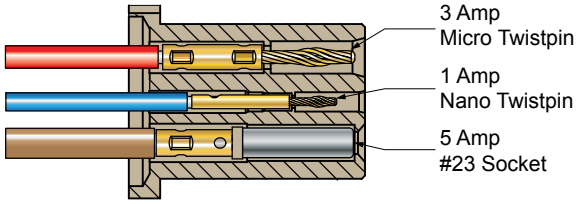
Quick Disconnect

880-033P Rear Panel Mount, Vertical PCB Plug

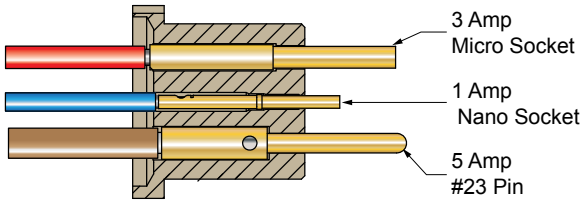
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

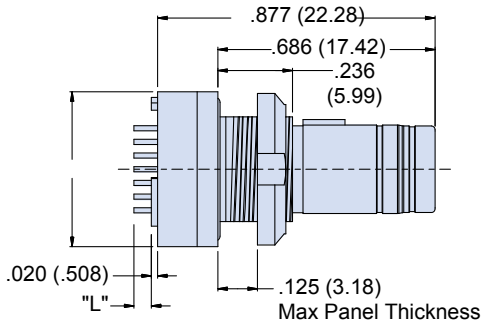
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

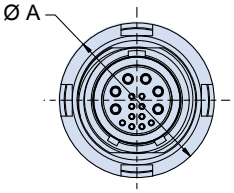
Shrouded
Type B Insert

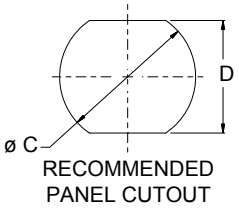


Unshrouded
Type A Insert









Dimensions								
Shell Size	ø A		ø B		ø C		D Flats	
	In	mm	In	mm	In	mm	In	mm
B	.392	9.96	.392	9.96	.283	7.19	.241	6.12
C	.412	10.46	.412	10.46	.305	7.75	.261	6.63
D	.432	10.97	.432	10.97	.324	8.23	.281	7.14
E	.451	11.46	.451	11.46	.344	8.74	.300	7.62
F	.471	11.96	.471	11.96	.364	9.25	.320	8.13
G	.490	12.45	.490	12.45	.383	9.73	.340	8.64
H	.530	13.46	.530	13.46	.419	10.64	.379	9.63
J	.569	14.45	.569	14.45	.459	11.66	.418	10.62
K	.589	14.96	.589	14.96	.478	12.14	.438	11.13
L	.628	15.95	.628	15.95	.518	13.16	.478	12.14

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

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Quick Disconnect

880-032R Rear Panel Mount, Vertical PCB Receptacle



Series 880 Quick-Disconnect (QDC) rear panel mount, vertical PCB receptacles are sealed with epoxy and meet IP67 requirements in mated condition. For open face sealing in an unmated condition request modification code -518. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulator. High performance crimp contacts factory terminated to solid copper wire. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

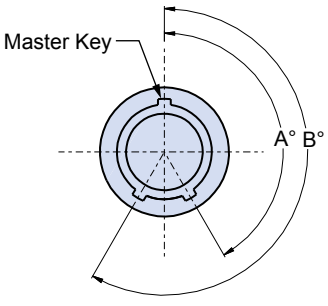
First letter of insert arrangement represents connector shell size, as in this example: **K**13M19N

How To Order						
Sample Part Number	**880-032R**	**A**	**-B7N**	**-M**	**S**	**-.125**
Series	**880-032R**					
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts recessed within insulator					
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table					
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
PC Tail Finish	**S** = Solder-dipped in 63/37 tin-lead **G** = Gold Plated					
PC Tail Length	**.080, .125, .175**; Length ('L') in inches					

MOD-686 POLARIZING OPTIONS

Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add sufix code 686 to the part number per the following example: 880-032RA-B7N-M004-.125-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

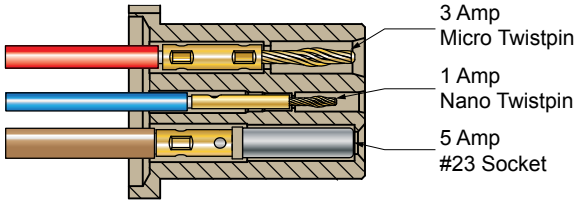
For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-032RA-B7N-M004-.125-**518**

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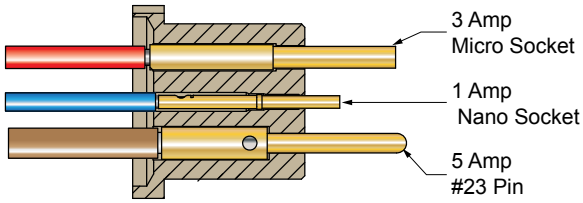
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

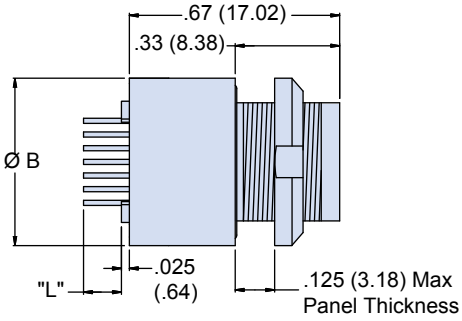
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

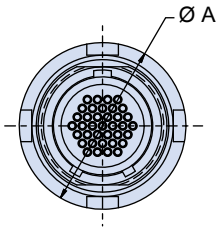
Shrouded
Type B Insert

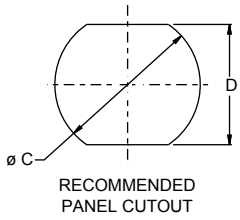


Unshrouded
Type A Insert









Dimensions								
Shell Size	ø A		ø B		ø C		D Flats	
	In	mm	In	mm	In	mm	In	mm
B	.392	9.9568	.392	9.96	.283	7.19	.241	6.12
C	.412	10.4648	.412	10.46	.305	7.75	.261	6.63
D	.432	10.9728	.432	10.97	.324	8.23	.281	7.14
E	.451	11.4554	.451	11.46	.344	8.74	.300	7.62
F	.471	11.9634	.471	11.96	.364	9.25	.320	8.13
G	.490	12.446	.490	12.45	.383	9.73	.340	8.64
H	.530	13.462	.530	13.46	.419	10.64	.379	9.63
J	.569	14.4526	.569	14.45	.459	11.66	.418	10.62
K	.589	14.9606	.589	14.96	.478	12.14	.438	11.13
L	.628	15.9512	.628	15.95	.518	13.16	.478	12.14

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

Quick Disconnect

880-041R Rear Panel Mount, PCB Receptacle with Mounting Holes



Series 880 Quick-Disconnect (QDC) rear panel mount, PCB receptacles with mounting holes are sealed with epoxy and meet IP67 requirements in mated condition. For open face sealing in an unmated condition request modification code -518. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High performance crimp contacts factory terminated to solid copper wire. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

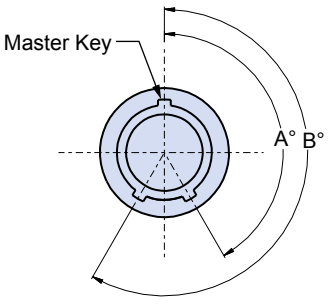
First letter of insert arrangement represents connector shell size, as in this example: **K**13M19N

How To Order						
Sample Part Number	**880-041R**	**A**	**-B7N**	**-M**	**S**	**-.125**
Series	**880-041R**					
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts Recessed within Insulator					
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table					
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
PC Tail Finish	**S** = Solder-dipped in 63/37 tin-lead **G** = Gold Plated					
PC Tail Length	**.080, .125, .175**; Length ('L') in inches					

MOD-686 POLARIZING OPTIONS

Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add sufix code 686 to the part number per the following example: 880-041RA-B7N-MS-.125-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-041RA-B7N-MS-.125-**518**

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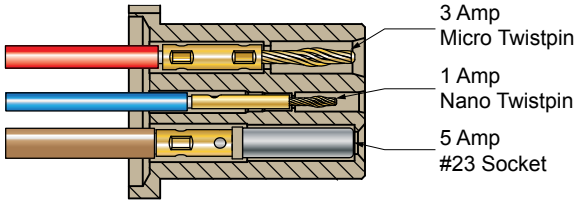
Quick Disconnect

880-041R Rear Panel Mount, PCB Receptacle with Mounting Holes

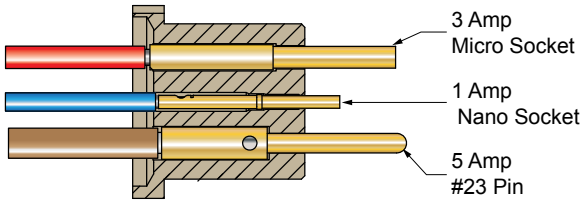
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

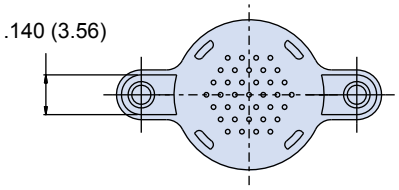
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

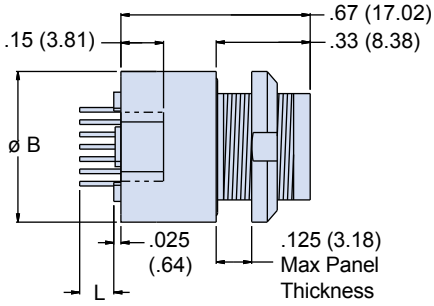
Shrouded
Type B Insert

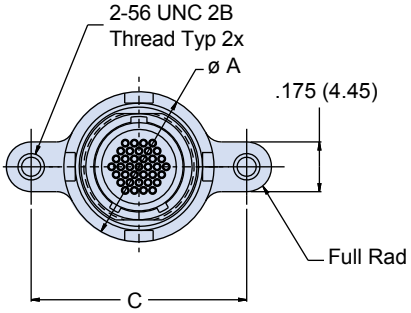


Unshrouded
Type A Insert

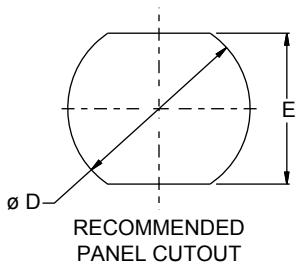








Dimensions										
Shell Size	Ø A		Ø B		C		Ø D		E Flats	
	In	mm	In	mm	In	mm	In	mm	In	mm
B	.392	9.96	.392	9.96	.540	13.72	.283	7.19	.241	6.12
C	.412	10.46	.412	10.46	.560	14.22	.305	7.75	.261	6.63
D	.432	10.97	.432	10.97	.579	14.71	.324	8.23	.281	7.14
E	.451	11.46	.451	11.46	.599	15.21	.344	8.74	.300	7.62
F	.471	11.96	.471	11.96	.619	15.72	.364	9.25	.320	8.13
G	.490	12.45	.490	12.45	.638	16.21	.383	9.73	.340	8.64
H	.530	13.46	.530	13.46	.678	17.22	.419	10.64	.379	9.63
J	.569	14.45	.569	14.45	.717	18.21	.459	11.66	.418	10.62
K	.589	14.96	.589	14.96	.737	18.72	.478	12.14	.438	11.13
L	.628	15.95	.628	15.95	.776	19.71	.518	13.16	.478	12.14



Quick Disconnect

880-042R Rear Panel Mount, PCB Receptacle with Ground Pins



Series 880 Quick-Disconnect (QDC) rear panel mount, PCB receptacles are sealed with epoxy and meet IP67 requirements in mated condition. For open face sealing in an unmated condition request modification code -518. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High performance crimp contacts are factory terminated to solid copper wire. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example: **K**13M19N

How To Order

Sample Part Number	880-042R	A	-B7N	-M	S	-.125

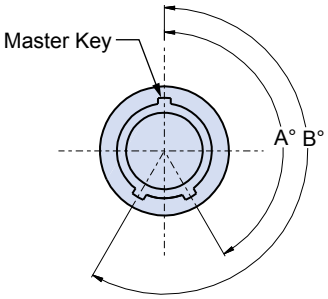
Series	880-042R
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts Recessed within Insulator
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant
PC Tail Finish	**S** = Solder-dipped in 63/37 tin-lead **G** = Gold Plated
PC Tail Length	**.080**, **.125**, **.175**; Length ('L') in inches

MOD-686 POLARIZING OPTIONS

Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add sufix code 686 to the part number per the following example: 880-042RA-B7N-MS-.125-**686A**

Plug Alternate Key Positions

Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-042RA-B7N-MS-.125-**518**

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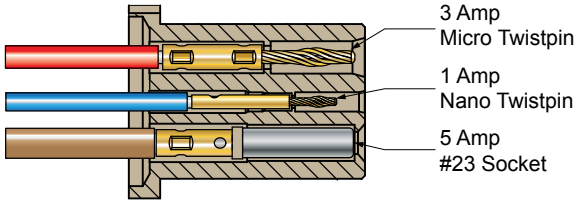
Quick Disconnect

880-042R Rear Panel Mount, PCB Receptacle with Ground Pins

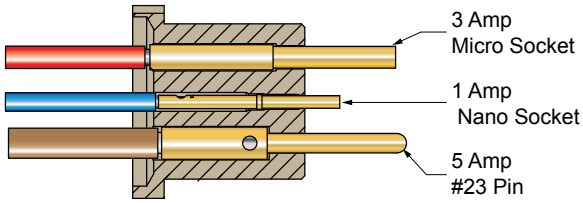
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

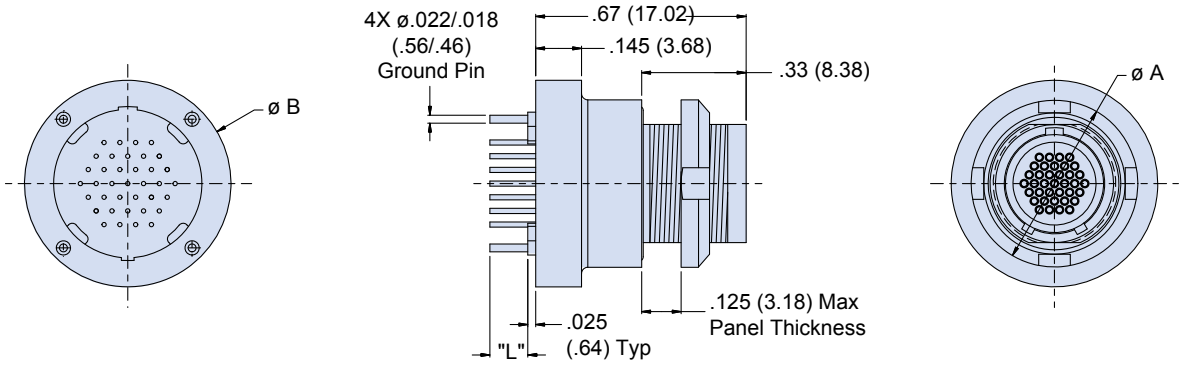
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

Shrouded
Type B Insert

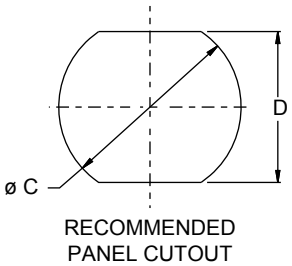


Unshrouded
Type A Insert





Dimensions								
Shell Size	Ø A		ØB		Ø C		D Flats	
	In	mm	In	mm	In	mm	In	mm
B	0.392	9.96	0.516	13.11	0.283	7.19	0.241	6.12
C	0.412	10.46	0.536	13.61	0.305	7.75	0.261	6.63
D	0.431	10.95	0.555	14.10	0.324	8.23	0.281	7.14
E	0.451	11.46	0.575	14.61	0.344	8.74	0.300	7.62
F	0.471	11.96	0.595	15.11	0.364	9.25	0.320	8.13
G	0.490	12.45	0.614	15.60	0.383	9.73	0.340	8.64
H	0.530	13.46	0.654	16.61	0.419	10.64	0.379	9.63
J	0.569	14.45	0.693	17.60	0.459	11.66	0.418	10.62
K	0.588	14.94	0.712	18.08	0.478	12.14	0.438	11.13
L	0.628	15.95	0.752	19.10	0.518	13.16	0.478	12.14



RECOMMENDED
PANEL CUTOUT

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Quick Disconnect

880-030R Rear Panel Mount, Right Angle PCB Receptacle



Series 880 Quick-Disconnect (QDC) rear panel mount, PCB receptacles are sealed with epoxy and meet IP67 requirements in mated condition. For open face sealing in an unmated condition request modification code -518. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High performance crimp contacts are factory terminated to solid copper wire. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

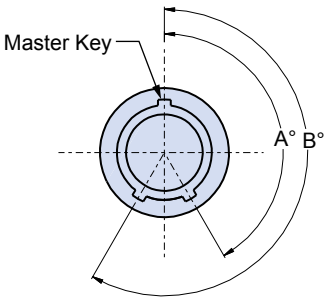
First letter of insert arrangement represents connector shell size, as in this example: **K**13M19N

How To Order						
Sample Part Number	**880-030R**	**A**	**-B7N**	**-M**	**S**	**-.125**
Series	**880-030R**					
Insert Style	**A** = Unshrouded contacts **B** = Shrouded contacts recessed within insulator					
Shell Size/Insert Arr.[1]	See Shell Size and Insert Arrangement Table					
Material/Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
PC Tail Finish	**S** = Solder-dipped in 63/37 tin-lead **G** = Gold Plated					
PC Tail Length	**.080, .125, .175**; Length ('L') in inches					

MOD-686 POLARIZING OPTIONS

Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add sufix code 686 to the part number per the following example: 880-030RA-B7N-MS-.125-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

MOD-518 OPEN FACE SEALING

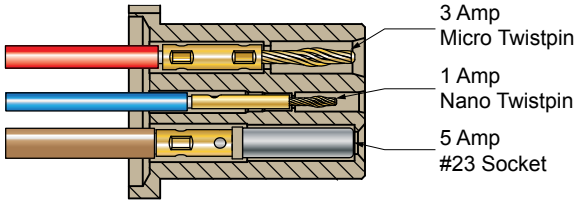
For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-030RA-B7N-MS-.125-**518**

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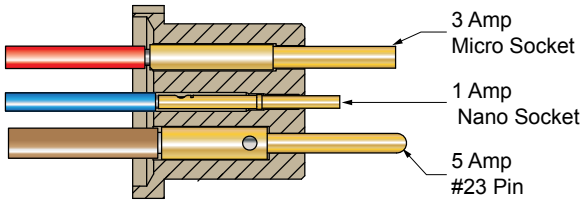
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

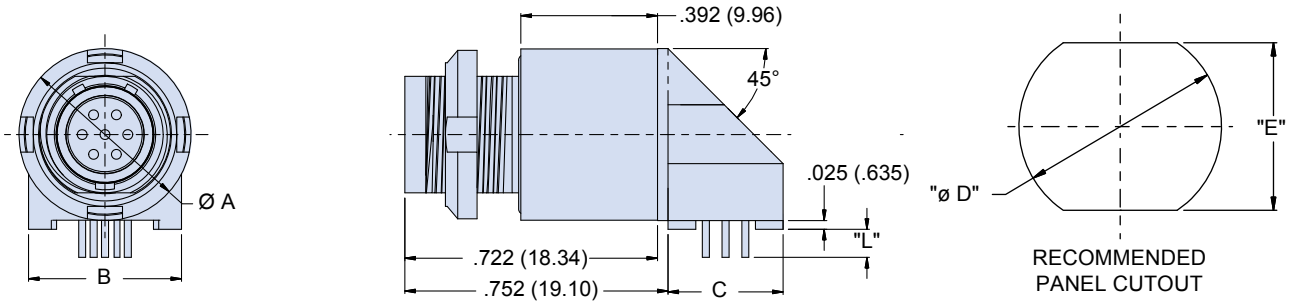
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions										
Shell Size	A		B		C Max		D Mount Ø		E Flats	
	in	mm	in	mm	in	mm	in	mm	in	mm
B	0.392	9.96	0.338	8.59	0.260	6.60	0.283	7.19	0.241	6.12
C	0.412	10.46	0.358	9.09	0.280	7.11	0.305	7.75	0.261	6.63
D	0.431	10.95	0.377	9.58	0.300	7.62	0.324	8.23	0.281	7.14
E	0.451	11.46	0.397	10.08	0.320	8.13	0.344	8.74	0.300	7.62
F	0.471	11.96	0.417	10.59	0.340	8.64	0.364	9.25	0.320	8.13
G	0.490	12.45	0.436	11.07	0.380	9.65	0.383	9.73	0.340	8.64
H	0.530	13.46	0.476	12.09	0.400	10.16	0.419	10.64	0.379	9.63
J	0.569	14.45	0.515	13.08	0.440	11.18	0.459	11.66	0.418	10.62
K	0.589	14.96	0.534	13.56	0.460	11.68	0.478	12.14	0.438	11.13
L	0.628	15.95	0.574	14.58	0.500	12.70	0.518	13.16	0.478	12.14

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Quick Disconnect

880-037R Rear Panel Mount, Right Angle PCB Receptacle with Mounting Holes



Series 880 Quick-Disconnect (QDC) rear panel mount, right angle PCB receptacles with mounting holes are sealed with epoxy and meet IP67 requirements in mated condition. For open face sealing in an unmated condition request modification code -518. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High performance crimp contacts are factory terminated to solid copper wire. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example: **K**13M19N

NOTES

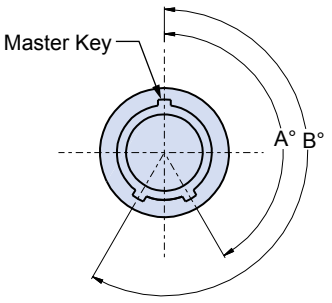
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

How To Order							
Sample Part Number	880-037R	A	-B7N	-M	S	-.125
Series	880-037R					
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts recessed within insulator					
Shell Size/ Insert Arr.1	See Shell Size and Insert Arrangement Table					
Material/ Finish²	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
PC Tail Finish	**S** = Solder-dipped in 63/37 tin-lead **G** = Gold Plated					
PC Tail Length	**.080, .125, .175**; Length ('L') in inches					

MOD-686 POLARIZING OPTIONS

Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add sufix code 686 to the part number per the following example: 880-037RA-B7N-MS-.125-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 880-037RA-B7N-MS-.125-**518**

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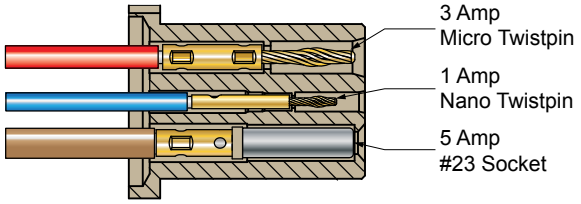
Quick Disconnect

880-037R Rear Panel Mount, Right Angle PCB Receptacle with Mounting Holes

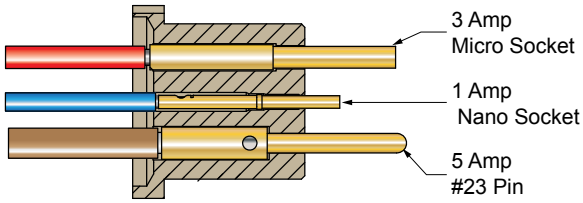
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

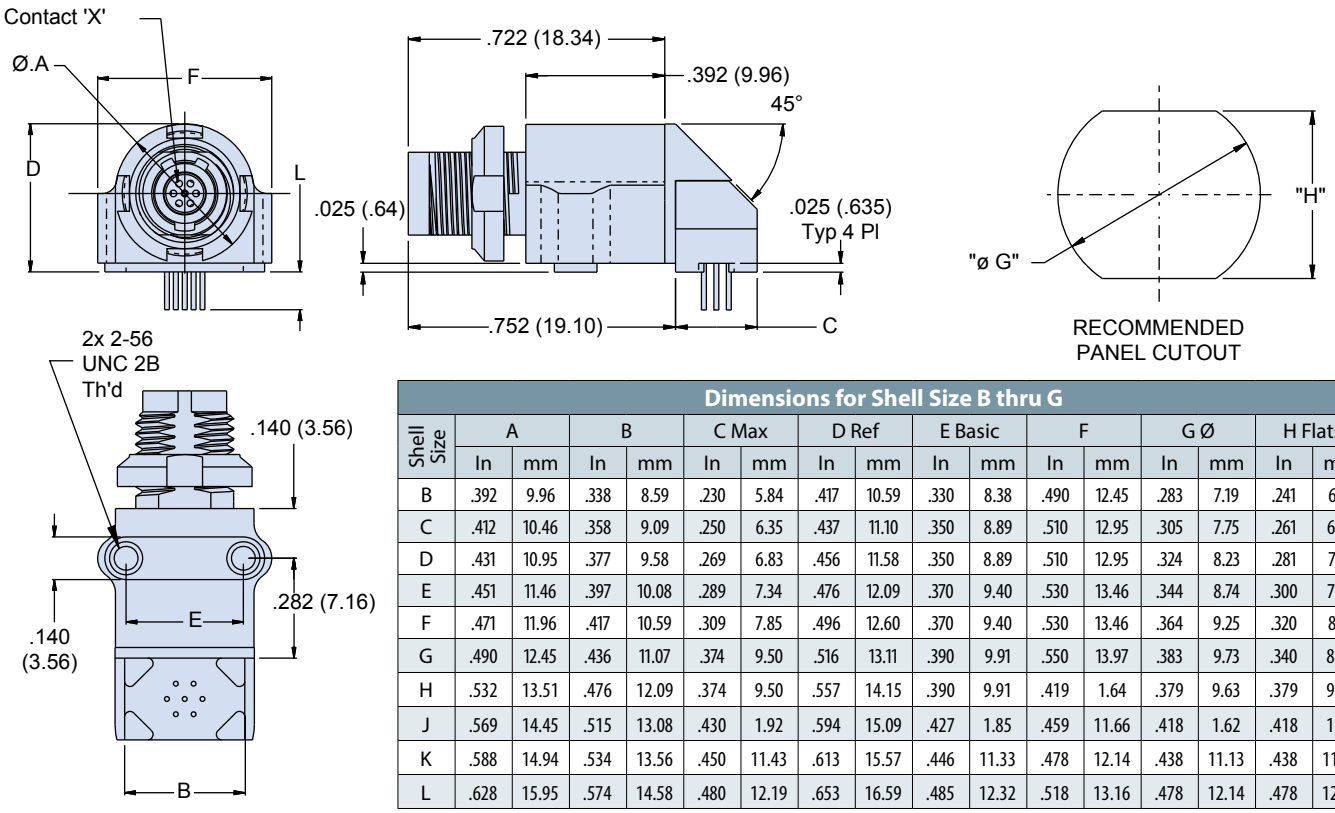
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions for Shell Size B thru G																
Shell Size	A		B		C Max		D Ref		E Basic		F		G Ø		H Flats	
	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm	In	mm
B	.392	9.96	.338	8.59	.230	5.84	.417	10.59	.330	8.38	.490	12.45	.283	7.19	.241	6.12
C	.412	10.46	.358	9.09	.250	6.35	.437	11.10	.350	8.89	.510	12.95	.305	7.75	.261	6.63
D	.431	10.95	.377	9.58	.269	6.83	.456	11.58	.350	8.89	.510	12.95	.324	8.23	.281	7.14
E	.451	11.46	.397	10.08	.289	7.34	.476	12.09	.370	9.40	.530	13.46	.344	8.74	.300	7.62
F	.471	11.96	.417	10.59	.309	7.85	.496	12.60	.370	9.40	.530	13.46	.364	9.25	.320	8.13
G	.490	12.45	.436	11.07	.374	9.50	.516	13.11	.390	9.91	.550	13.97	.383	9.73	.340	8.64
H	.532	13.51	.476	12.09	.374	9.50	.557	14.15	.390	9.91	.419	1.64	.379	9.63	.379	9.63
J	.569	14.45	.515	13.08	.430	1.92	.594	15.09	.427	1.85	.459	11.66	.418	1.62	.418	1.62
K	.588	14.94	.534	13.56	.450	11.43	.613	15.57	.446	11.33	.478	12.14	.438	11.13	.438	11.13
L	.628	15.95	.574	14.58	.480	12.19	.653	16.59	.485	12.32	.518	13.16	.478	12.14	.478	12.14

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Quick Disconnect

880-025P In-Line Plug with Solder Cup Contacts



880-025P in-line plugs with solder cup contacts feature thread-on rear adapter allowing access to contacts. Install cable shield braid directly to connector with Band-Master Micro band. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. Ultraminiature SuperFly® connectors are ideal where ruggedness and field repairability is required.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example: K13M19N

NOTES

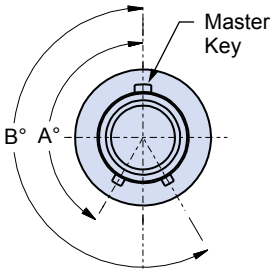
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

How To Order				
Sample Part Number	880-025P	A	-B7N	-M
Series	880-025P			
Insert Style	A = Unshrouded Contacts B = Shrouded Contacts are Recessed within the Insulator			
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table			
Material/ Finish[2]	M = Aluminum/electroless nickel RoHS compliant ZR = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate MT = Aluminum/nickel-PTFE RoHS compliant ZMT = Stainless steel/nickel-PTFE RoHS compliant			

MOD-686 POLARIZING OPTIONS

Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add sufix code 686 to the part number per the following example: 880-025PA-B7N-M-**518**

Plug Alternate Key Positions		
Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



SUITABLE WIRE RANGES

Wire Ranges		
5A (#23)	3A (Micro)	1A (Nano)
22-28 AWG	24-30 AWG	30-32 AWG

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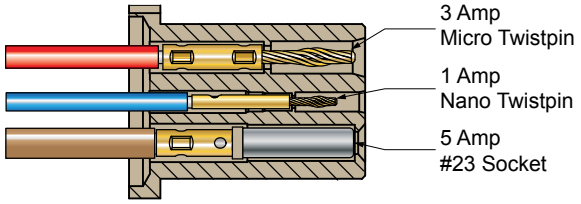
Quick Disconnect

880-025P In-Line Plug with Solder Cup Contacts

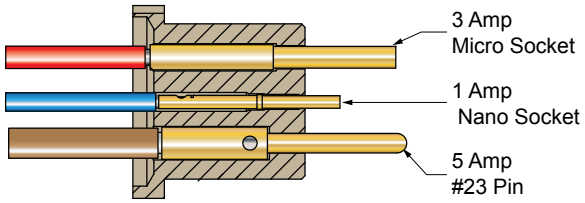
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

Shrouded
Type B Insert

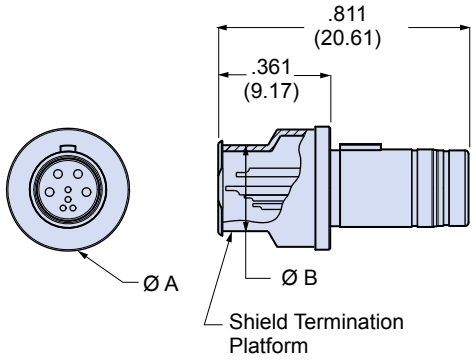


Unshrouded
Type A Insert



B

Dimensions				
Shell Size	Ø A MAX		Ø B	
	In.	mm.	In.	mm.
B	.317	8.05	.197	5.00
C	.342	8.69	.222	5.64
D	.355	9.02	.235	5.97
E	.381	9.68	.261	6.63
F	.400	10.16	.280	7.11
G	.422	10.72	.302	7.67
H	.459	11.66	.339	8.61
J	.487	12.37	.369	9.37
K	.509	12.93	.391	9.93
L	.548	13.92	.430	10.92



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

Quick Disconnect

880-026R In-Line Receptacle with Solder Cup Contacts



Series 880 Quick-Disconnect (QDC) in-line receptacles with solder cup contacts have thread-on rear adapter to allow access to contacts. Install cable shield braid directly to connector with Band-Master® band. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. Ultraminiature SuperFly® connectors are ideal where ruggedness and field repairability is required.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

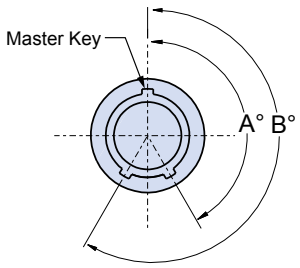
First letter of insert arrangement represents connector shell size, as in this example: **K**13M19N

How To Order				
Sample Part Number	**880-026R**	**A**	**-B7N**	**-M**
Series	**880-026R**			
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts, Recessed within Insulator			
Shell Size/ Insert Arr.[1]	See Shell Size and Insert Arrangement Table			
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant			

MOD-686 POLARIZING OPTIONS

Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add sufix code 686 to the part number per the following example: 880-026RA-B7N-M-**518**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



SUITABLE WIRE RANGES

Wire Ranges		
5A (#23)	3A (Micro)	1A (Nano)
22-28 AWG	24-30 AWG	30-32 AWG

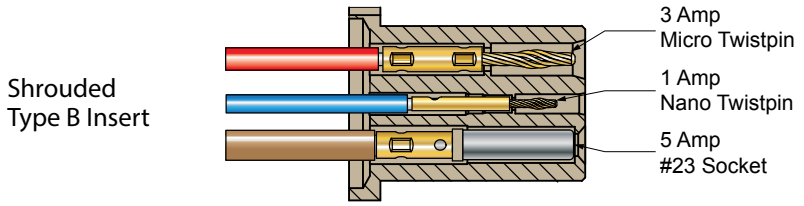
NOTES

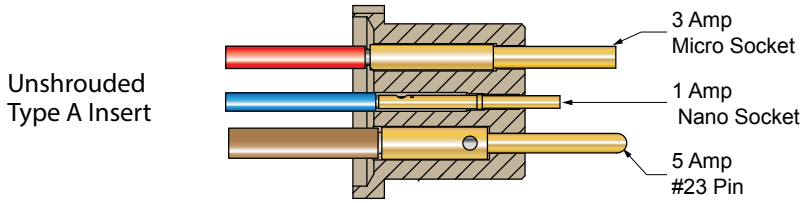
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

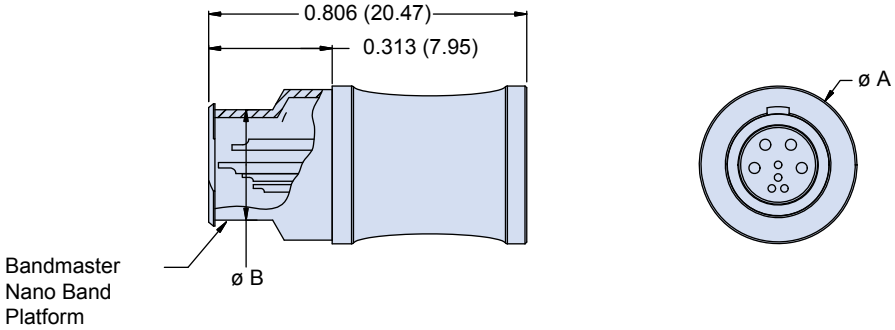
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ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.







Dimensions				
Shell Size	A Max OD		B Rear OD	
	In	mm	In	mm
B	0.317	8.05	0.197	5.00
C	0.342	8.69	0.222	5.64
D	0.355	9.02	0.235	5.97
E	0.381	9.68	0.261	6.63
F	0.400	10.16	0.280	7.11
G	0.422	10.72	0.302	7.67
H	0.459	11.66	0.339	8.61
J	0.487	12.37	0.369	9.37
K	0.509	12.93	0.391	9.93
L	0.548	13.92	0.430	10.92

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SERIES 88
CORDSETS

Superfly® Threaded Coupling Connectors

High-performance, high-speed, lightweight, interconnect systems



Glenair Series 881 ***SuperFly***® threaded coupling connectors are the new standard for highspeed performance and ultraminiature interconnection systems. 27 contacts arrangements are offered with 1A, 3A, and 5A ratings. Aluminum and stainless shells with standard finishes including RoHs compliant options. Pigtail, and newly added, PCB and solder cup versions now available. Pigtail wire versions offered standard with high-strength silver-coated copper alloy wire with ETFE insulation (M222750/33 or equivalent).



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www.glenair.com

SERIES 881

SuperFly®

Threaded Coupling

Product Selection Guide

Glenair®

Pigtail Connectors



881-001P
Cable Plug, Pigtail Wires

Page 4



881-002R
Cable Receptacle, Pigtail Wires

Page 6



881-003R
Front Panel Mount Receptacle, Pigtail Wires

Page 8



881-004R
Rear Panel Mount Receptacle, Pigtail Wires

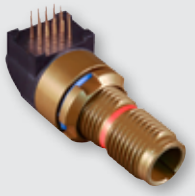
Page 10

PCB Connectors



881-019R
Rear Panel Mount, Vertical PCB Receptacle

Page 12



881-020R
Rear Panel Mount, Right Angle PCB Receptacle

Page 14

Solder Cup Connectors



881-018P
Cable Plug, Solder Cup

Page 16



881-029R
Cable Receptacle, Solder Cup

Page 18

C

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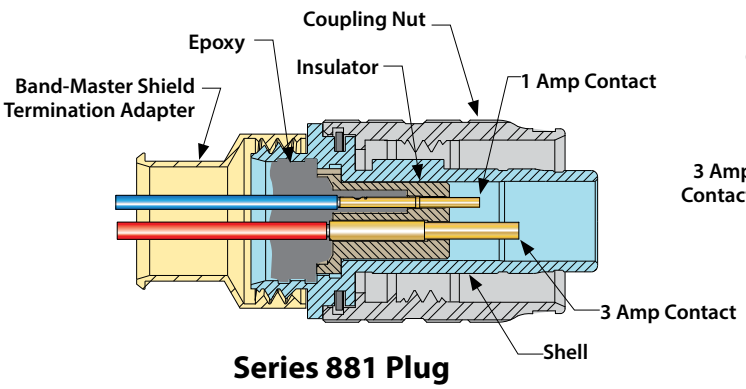
SERIES 881

Threaded Coupling SuperFly® Connectors

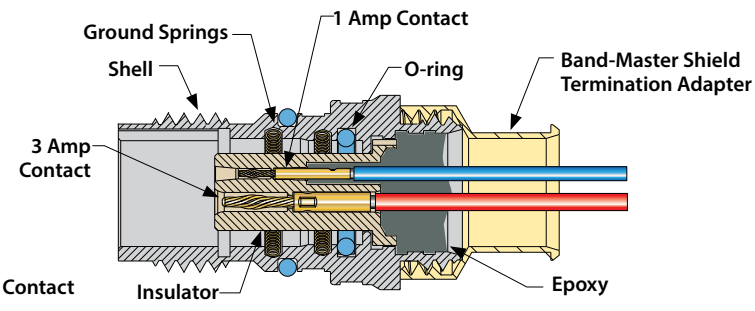
Compact, ultralightweight SuperFly® Threaded connectors feature positive lock coupling, EMI shielding and IP67 ingress protection . Available in a variety of layouts and sizes for audio, video, power and data applications, Series 881 connectors are ideal for man-portable electronics where size and weight are prime considerations.

- **Ultrasmall size for maximum size and weight reduction**
- **Threaded coupling with positive lock**
- **Three contact sizes: 5 amp, 3 amp and 1 amp**
- **Meets MIL-STD-810 environmental requirements**
- **Aluminum or SST**





Series 881 Plug
Shown with Type A Unshrouded Insert



Series 881 Receptacle
Shown with Type B Shrouded Insert

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SERIES 881

SuperFly®

Threaded Coupling

Connector Properties Overview

Glenair®

ABOUT SUPERFLY® MATERIALS AND FINISHES

Four standard material and finish options are available.

1 Aluminum shell with ***Electroless Nickel*** (EN). High reflectivity and poor corrosion resistance make nickel a poor choice for tactical systems, but nickel is preferred for avionics systems, space vehicles, medical equipment and test gear where corrosion is not a primary concern. Nickel is highly conductive and is excellent for EMI-protected systems.

2 Aluminum shell with ***Black Zinc-Nickel*** (Zn-Ni). Although less conductive than other finishes, non-reflective black Zn-Ni is a typical choice for soldier gear and is RoHS compliant. Corrosion resistance is good.

3 Aluminum shell with ***Electroless Nickel-PTFE*** (EN-PTFE). Excellent durability, corrosion resistance and conductivity. Non-reflective EN-PTFE is a primary choice for any harsh environment. Inherently lubricious, resists galling.

4 Aluminum shell with ***Olive Drab or Cadmium*** (OD over Cad). excellent, corrosion resistance and excellent conductivity. Non-reflective OD over Cad is a primary choice for defense and aerospace applications. Inherently lubricious, resists galling.

5 Stainless steel shell with ***Zinc-Cobalt*** (ZN-CO). Excellent durability, corrosion resistance and conductivity. Non-reflective black finish is an excellent choice for any harsh environment.

6 Stainless steel, **Passivated** finish. Excellent corrosion resistance, good conductivity. A good choice for high corrosion areas where EMI shielding is not a primary concern. Suitable for most aerospace and tactical gear.

7 Stainless steel, **Ni-PTFE** finish. Excellent corrosion resistance and excellent conductivity. A good choice for high corrosion areas where EMI shielding is a primary concern. Highly conductive, non-reflective Ni-PTFE finish is suitable for all aerospace and tactical systems.

Material and Finish Comparison Data							
Property	1	2	3	4	5	6	7
Material and Finish	Aluminum Electroless Nickel	Aluminum Black Zinc-Nickel	Aluminum Electoless Nickel-PTFE	Aluminum Olive Drab over Cadmium	Stainless Steel Black Zinc-Cobalt	Stainless Steel Passivated	Stainless Steel Electroless Nickel-PTFE
Glenair Code	M	ZR	MT	NF	ZC	ZK	ZMT
Corrosion Resistance	Poor	Good	Excellent	Very Good	Excellent	Excellent	Excellent
RoHS Compliance*	Yes	Yes	Yes	No	No	Yes	Yes
Conductivity	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent
Reflectivity	Reflective	Non-reflective	Non-reflective	Non-reflective	Non-reflective	Reflective	Non-reflective
Cost	$	$$	$$	$$	$$$$	$$$$	$$$$

* Meets DoD directives and European regulations for elimination of cadmium and hexavalent chromate.

Product Specifications			
Current Rating (Size)	5A (#23)	3A (Micro)	1A (Nano)
Wire Size	#22-28 AWG	#24-30 AWG	#28-32 AWG
Dielectric Withstanding Voltage	500Vac	600Vac	250Vac
Contact Resistance	20 milliohms	32 milliohms	80 milliohms
Temperature Range	-55°C to +150°C		
Durability (mating cycles)	2000		
Corrosion (salt fog)	Nickel finish 48 hours, other finishes 500 hours		
Water Immersion,Mated	MIL-STD-810 Method 512, 1 meter, 1 hour		
Ingress Protection	IP 67		
Vibration	37g		
Shock	300g		

Materials and Finishes	
Property	Description
Insulator	Thermoplastic, glass-filled
Shell	Aluminum or stainless steel
1A. Contact	Precious metal alloy pin, gold-plated copper alloy socket
3A. and 5A. Contact	Copper alloy, 50 microinches gold over nickel finish
Encapsulant	Epoxy
Wire	High strength silver-coated copper alloy, ETFE insulation (M22759/33 or equiv.)

Threaded Coupling

881-001P Cable Plug with Pigtail Wires and Integral Banding Porch



Series 881 threaded coupling cable plugs are pre-wired, sealed with epoxy and feature integral shield termination platform. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at the factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example K13M19N

How To Order

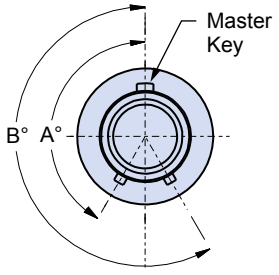
Sample Part Number	881-001P	A	-B7N	-M	004	J	1	-24
Series	881-001P							
Insert Style	A = Unshrouded Contacts B = Shrouded Contacts Shrouded contacts are recessed within the insulator							
Shell Size / Insert Arr.[1]	See Shell Size and Insert Arrangement Table							
Material/ Finish[2]	M = Aluminum/electroless nickel RoHS compliant ZR = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate MT = Aluminum/nickel-PTFE RoHS compliant ZMT = Stainless steel/nickel-PTFE RoHS compliant							
Wire AWG	See Wire Code Table							
Wire Type	J = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	1 = White 5 = Full Color; 1-10 solid color, 11 and up are striped 7 = 10 Color Repeating; Wire #1 black, Wire #11 black, etc							
Wire Length	Overall length in inches measured from front of connector							

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 881-001PA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions

Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

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Threaded Coupling

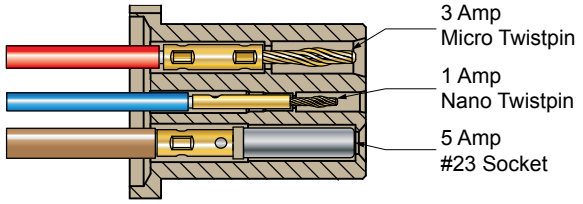
881-001P Cable Plug with Pigtail Wires and Integral Banding Porch

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

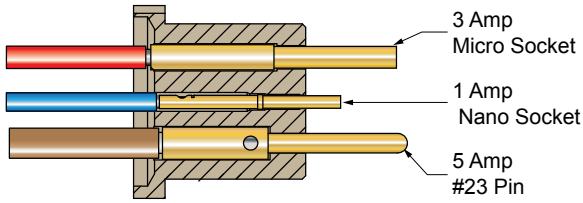
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

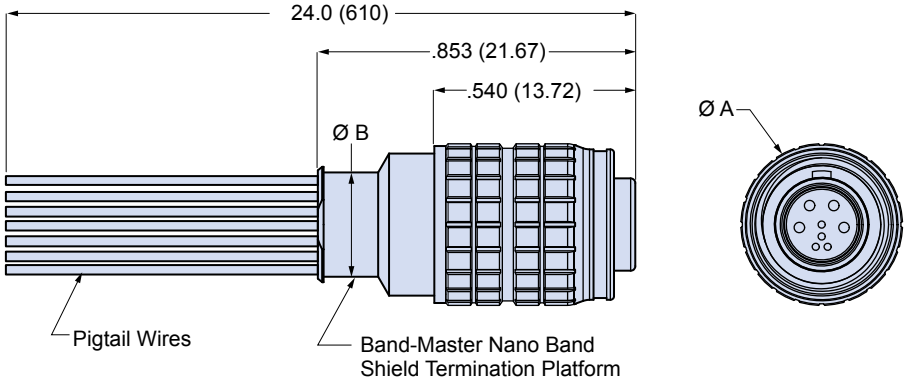
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions				
Shell Size	Ø A		Ø B	
	In.	mm.	In.	mm.
B	.356	9.04	.199	5.05
C	.375	9.53	.224	5.69
D	.395	10.03	.237	6.02
E	.415	10.54	.263	6.68
F	.434	11.02	.282	7.16
G	.454	11.53	.304	7.72
H	.493	12.52	.341	8.66
J	.533	13.54	.369	9.37
K	.553	14.05	.391	9.93
L	.592	15.04	.430	10.92

C

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Threaded Coupling

881-002R Cable Receptacle with Pigtail Wires and Banding Porch



Series 881 threaded coupling cable receptacles are pre-wired, sealed with epoxy and feature an integral shield termination platform. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at the factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example K13M19N

How To Order

Sample Part Number	881-002R	A	-B7N	-M	004	J	1	-24
Series	881-002R							
Insert Style	A = Unshrouded Contacts B = Shrouded Contacts are recessed within the insulator							
Shell Size / Insert Arr.[1]	See Shell Size and Insert Arrangement Table							
Material/ Finish[2]	M = Aluminum/electroless nickel RoHS compliant ZR = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate MT = Aluminum/nickel-PTFE RoHS compliant ZMT = Stainless steel/nickel-PTFE RoHS compliant							
Wire AWG	See Wire Code Table							
Wire Type	J = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	1 = White 5 = Full Color; 1-10 solid color, 11 and up are striped 7 = 10 Color Repeating; Wire #1 black, Wire #11 black, etc							
Wire Length	Overall length in inches measured from front of connector							

NOTES

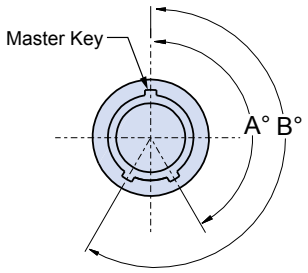
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 881-002RA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions

Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



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Threaded Coupling

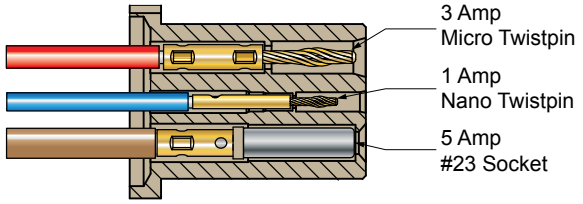
881-002R Cable Receptacle with Pigtail Wires and Banding Porch

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

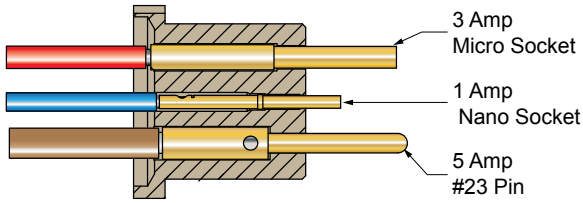
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

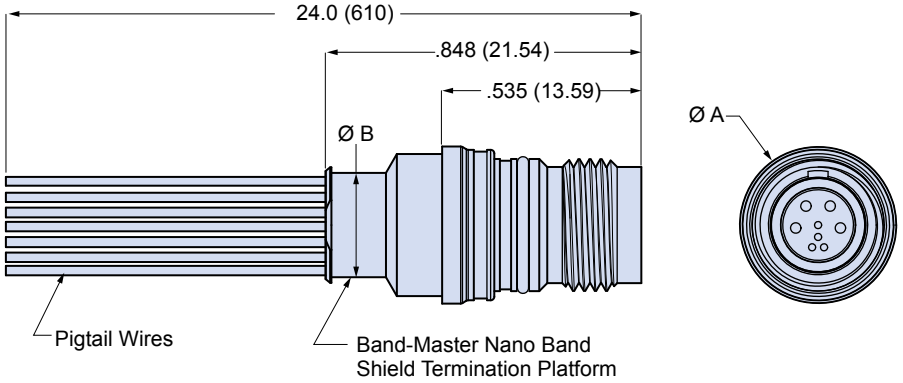
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded Type B Insert



Unshrouded Type A Insert





Dimensions				
Shell Size	Ø A		Ø B	
	In.	mm.	In.	mm.
B	.339	8.61	.199	5.05
C	.364	9.25	.224	5.69
D	.377	9.58	.237	6.02
E	.403	10.24	.263	6.68
F	.422	10.72	.282	7.16
G	.444	11.28	.304	7.72
H	.481	12.22	.341	8.66
J	.509	12.93	.369	9.37
K	.531	13.49	.391	9.93
L	.570	14.48	.430	10.92

C

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Threaded Coupling

881-003R Front Panel Mount Receptacle with Pigtail Wires



Series 881 front panel mount, threaded coupling receptacles are pre-wired, sealed with epoxy and feature integral shield termination platform. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at the factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example **K**13M19N

How To Order

Sample Part Number	881-003R	A	-B7N	-M	004	J	1	-24
Series	881-003R							
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts are recessed within the insulator							
Shell Size / Insert Arr.[1]	See Shell Size and Insert Arrangement Table							
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant							
Wire AWG	See Wire Code Table							
Wire Type	**J** = "Space Grade" wire M22759/33 or equivalent (ETFE)							
Wire Color	**1** = White **5** = Full Color; 1-10 solid color, 11 and up are striped **7** = 10 Color Repeating; Wire #1 black, Wire #11 black, etc							
Wire Length	Overall length in inches measured from front of connector							

NOTES

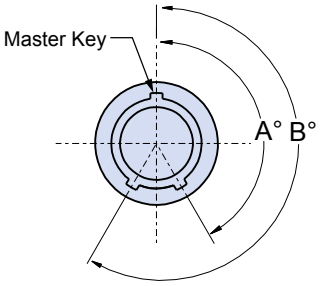
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 881-003RA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions

Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 881-003RA-B7N-M004J1-24-**518**

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Threaded Coupling

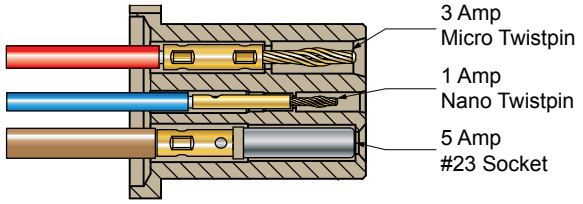
881-003R Front Panel Mount Receptacle with Pigtail Wires

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

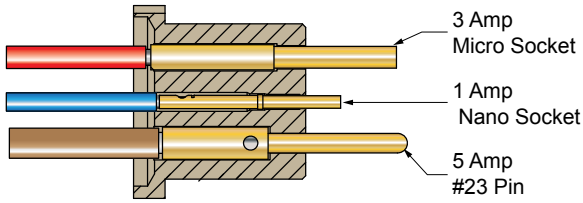
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

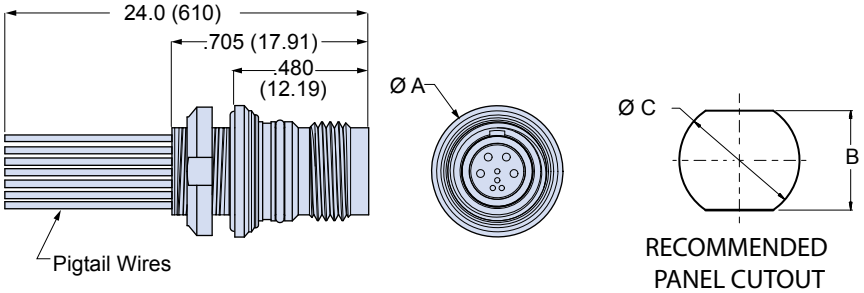
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded Type B Insert



Unshrouded Type A Insert





Dimensions							
Shell Size	Ø A		B		Ø C		A Thread
	In.	mm.	In.	mm.	In.	mm.	
B	.392	9.96	.236	5.99	.282	7.16	M7.0 x .75-6g
C	.412	10.46	.256	6.50	.302	7.67	M7.5x .75-6g
D	.432	10.97	.276	7.01	.321	8.15	M8.0 x .75-6g
E	.451	11.46	.296	7.52	.341	8.66	M8.5 x .75-6g
F	.471	11.96	.315	8.00	.361	9.17	M9.0 x .75-6g
G	.491	12.47	.335	8.51	.380	9.65	M9.5 x .75-6g
H	.530	13.46	.374	9.50	.420	10.67	M10.5 x .75-6g
J	.550	13.97	.394	10.01	.439	11.15	M11.5 x .75-6g
K	.570	14.48	.414	10.52	.459	11.66	M12.0 x .75-6g
L	.609	15.47	.453	11.51	.498	12.65	M13.0 x .75-6g

C

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Threaded Coupling

881-004R Rear Panel Mount Receptacle with Pigtail Wires



Series 881 rear panel mount, threaded coupling receptacles are pre-wired, sealed with epoxy and feature integral shield termination platform. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High-strength wire with crosslinked ETFE insulation crimped at the factory to high performance contacts. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example **K**13M19N

How To Order

Sample Part Number	881-004R	A	-B7N	-M	004	J	1	-24

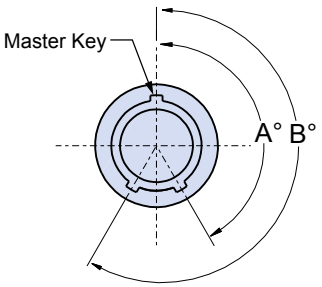
Series	881-004R
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts are recessed within the insulator
Shell Size / Insert Arr.[1]	See Shell Size and Insert Arrangement Table
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant
Wire AWG	See Wire Code Table
Wire Type	**J** = "Space Grade" wire M22759/33 or equivalent (ETFE)
Wire Color	**1** = White **5** = Full Color; 1-10 solid color, 11 and up are striped **7** = 10 Color Repeating; Wire #1 black, Wire #11 black, etc
Wire Length	Overall length (L) in inches measured from front of connector

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 881-004RA-B7N-M004J1-24-**686A**

Plug Alternate Key Positions

Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 881-004RA-B7N-M004J1-24-**518**

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

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Threaded Coupling

881-004R Rear Panel Mount Receptacle with Pigtail Wires

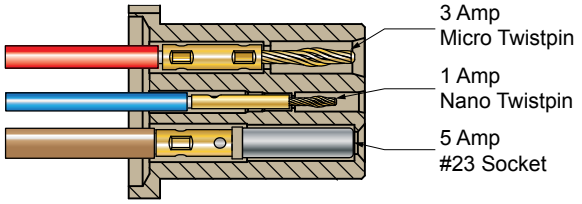
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

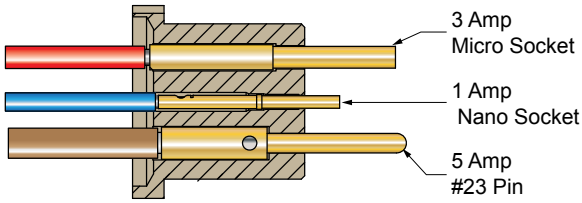
Wire Code Table

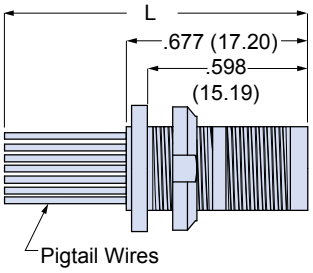
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
Layouts with 5A. Contacts				
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

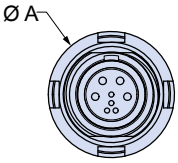
Shrouded
Type B Insert

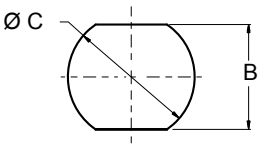


Unshrouded
Type A Insert









RECOMMENDED
PANEL CUTOUT

Dimensions

Shell Size	Ø A		B		Ø C	
	In.	mm.	In.	mm.	In.	mm.
B	.392	9.96	.236	5.99	.282	7.16
C	.412	10.46	.256	6.50	.302	7.67
D	.432	10.97	.276	7.01	.321	8.15
E	.451	11.46	.296	7.52	.341	8.66
F	.471	11.96	.315	8.00	.361	9.17
G	.491	12.47	.335	8.51	.380	9.65
H	.530	13.46	.374	9.50	.420	10.67
J	.569	14.45	.394	10.01	.439	11.15
K	.589	14.96	.433	11.00	.478	12.14
L	.628	15.95	.473	12.01	.518	13.16

C

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Threaded Coupling

881-019R Rear Panel Mount, PCB Vertical Receptacle



Series 881 rear panel mount, threaded coupling, PCB receptacles are sealed with epoxy and meet IP67 requirements in mated condition. For open face sealing in an unmated condition request modification code -518. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High performance crimp contacts are factory terminated to solid copper wire. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example **K**13M19N

How To Order

Sample Part Number	881-019R	A	-B7N	-M	S	-.125

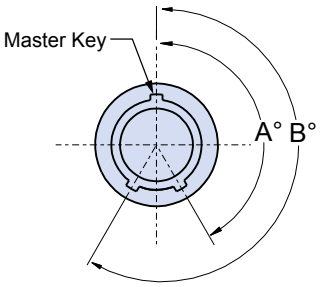
Series	881-019R
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts are Recessed within Insulator
Shell Size / Insert Arr.[1]	See Shell Size and Insert Arrangement Table
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant
PC Tail Finish	**S** = Solder-dipped in 63/37 tin-lead **G** = Gold Plated
PC Tail Length	**.080**, **.125**, **.175** in inches

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 881-019RA-B7N-MS-.125-**686A**

Plug Alternate Key Positions

Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example: 881-019RA-B7N-MS-.125-**518**

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

C

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Threaded Coupling

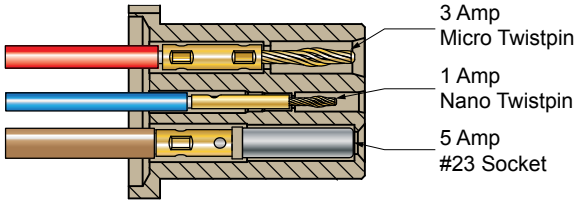
881-019R Rear Panel Mount, PCB Vertical Receptacle

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

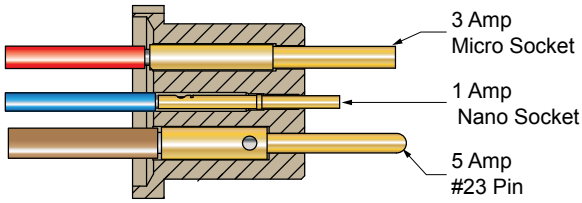
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

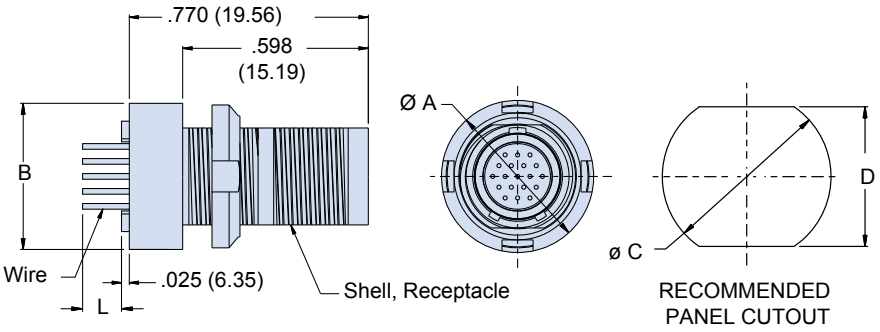
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

Shrouded
Type B Insert



Unshrouded
Type A Insert





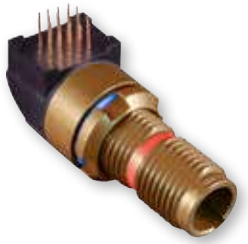
Dimensions								
Shell Size	Ø A		Ø B		Ø C		D Flats	
	In	mm	In	mm	In	mm	In	mm
B	0.392	9.96	0.392	9.96	0.283	7.19	0.241	6.12
C	0.412	10.46	0.412	10.46	0.305	7.75	0.261	6.63
D	0.432	10.97	0.432	10.97	0.324	8.23	0.281	7.14
E	0.451	11.46	0.451	11.46	0.344	8.74	0.300	7.62
F	0.471	11.96	0.471	11.96	0.364	9.25	0.320	8.13
G	0.490	12.45	0.490	12.45	0.383	9.73	0.340	8.64
H	0.530	13.46	0.530	13.46	0.419	10.64	0.379	9.63
J	0.569	14.45	0.569	14.45	0.459	11.66	0.418	10.62
K	0.589	14.96	0.589	14.96	0.478	12.14	0.438	11.13
L	0.628	15.95	0.628	15.95	0.518	13.16	0.478	12.14

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SuperFly®

Threaded Coupling

881-020R Rear Panel Mount, Right Angle PCB Receptacle



Series 881 rear panel mount, threaded coupling, right angle receptacles are sealed with epoxy and meet IP67 requirements in mated condition. For open face sealing in an unmated condition request modification code -518. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. High performance crimp contacts are factory terminated to solid copper wire. SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are critical.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example **K**13M19N

NOTES

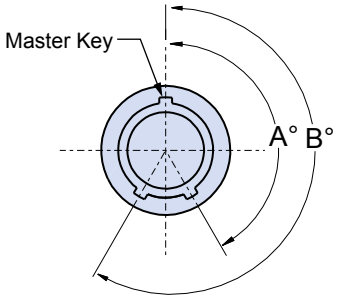
1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

How To Order						
Sample Part Number	**881-020R**	**A**	**-B7N**	**-M**	**S**	**-.125**
Series	**881-020R**					
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts are recessed within the insulator					
Shell Size / Insert Arr.[1]	See Shell Size and Insert Arrangement Table					
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
PCB Tail Finish	**S** = Solder-dipped in IAW Sn63Pb37 **G** = Gold plated					
Wire Type	**.080, .125, .175**					

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 881-020RA-B7N-MS-.125-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



MOD-518 OPEN FACE SEALING

For IP67 performance in open face (unmated) condition, use suffix -518.
Example:
881-020RA-B7N-MS-.125-**518**

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Threaded Coupling

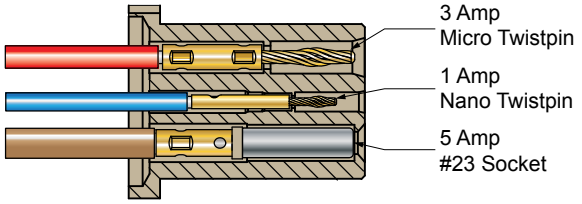
881-020R Rear Panel Mount, Right Angle PCB Receptacle

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

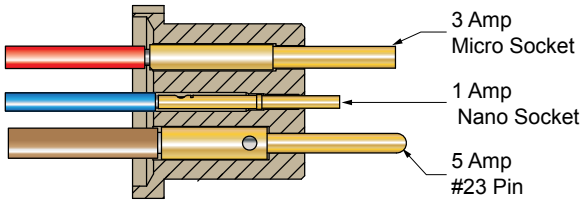
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

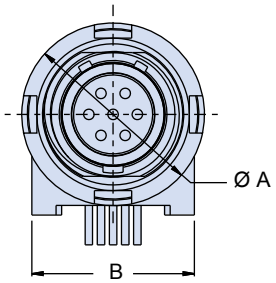
Wire Code Table				
Layouts with 5A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
E3W, F4W, G7W, H10W	#22	—	—	100
	#24	—	—	200
	#26	—	—	300
Layouts with 5A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D2W2N, F4W4N, H6W14N, J7W19N	#22	—	#28	104
	#24	—	#28	204
	#26	—	#28	304
	#22	—	#30	105
	#24	—	#30	205
	#26	—	#30	305
	#22	—	#32	106
	#24	—	#32	206
	#26	—	#32	306
Layouts with 3A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
D3M, E4M F7M, G10M, K19M, L22M	—	#24	—	020
	—	#26	—	030
	—	#28	—	040
	—	#30	—	050
Layouts with 3A. and 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
C2M2N, E4M4N, F4M8N G6M10N, G6M12N, K13M19N	—	#24	#28	024
	—	#26	#28	034
	—	#28	#28	044
	—	#24	#30	025
	—	#26	#30	035
	—	#28	#30	045
	—	#24	#32	026
	—	#26	#32	036
	—	#28	#32	046
Layouts with 1A. Contacts				
Insert Arrangement	#23 5A.	Micro 3A.	Nano 1A.	Code
B7N, C10N, E19N, F22N, G31N, H37N, J44N	—	—	#28	004
	—	—	#30	005
	—	—	#32	006

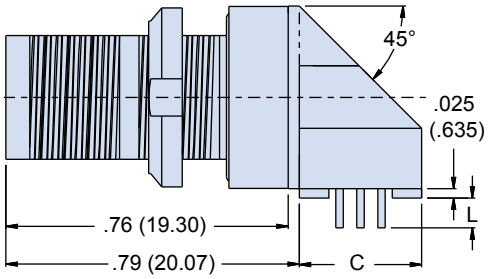
Shrouded
Type B Insert



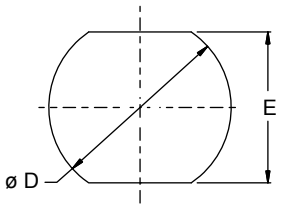
Unshrouded
Type A Insert







Dimensions										
Shell Size	A		B		C		D Mnt Ø		E Flats	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
B	.392	9.96	.338	8.59	.260	6.60	.283	7.19	.241	6.12
C	.412	10.46	.358	9.09	.280	7.11	.305	7.75	.261	6.63
D	.431	10.95	.377	9.58	.300	7.62	.324	8.23	.281	7.14
E	.451	11.46	.397	10.08	.320	8.13	.344	8.74	.300	7.62
F	.471	11.96	.417	10.59	.340	8.64	.364	9.25	.320	8.13
G	.490	12.45	.436	11.07	.380	9.65	.383	9.73	.340	8.64
H	.530	13.46	.476	12.09	.400	10.16	.419	10.64	.379	9.63
J	.569	14.45	.515	13.08	.440	11.18	.459	11.66	.418	10.62
K	.589	14.96	.534	13.56	.460	11.68	.478	12.14	.438	11.13
L	.628	15.95	.574	14.58	.500	12.70	.518	13.16	.478	12.14



RECOMMENDED
CUTOUT PANEL

C

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Threaded Coupling

881-018P Cable Plug, Solder Cup



Series 881 threaded coupling, cable plug with solder cup contacts feature thread-on rear adapters allowing access to solder cup contacts. Install cable shield braid directly to connector with Band-Master Micro band. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings, thermoplastic insulators. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where ruggedness and field repairability is required.

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

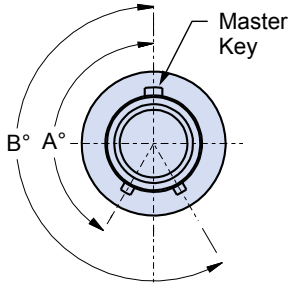
First letter of insert arrangement represents connector shell size, as in this example **K**13M19N

How To Order				
Sample Part Number	**881-018P**	**A**	**-B7N**	**-M**
Series	**881-018P**			
Insert Style	**A** = Unshrouded Contacts **B** = Shrouded Contacts are recessed within the insulator			
Shell Size / Insert Arr.[1]	See Shell Size and Insert Arrangement Table			
Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant			

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 881-018PA-B7N-M-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



SUITABLE WIRE RANGES

Wire Ranges		
5A (#23)	3A (Micro)	1A (Nano)
22-28 AWG	24-30 AWG	30-32 AWG

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

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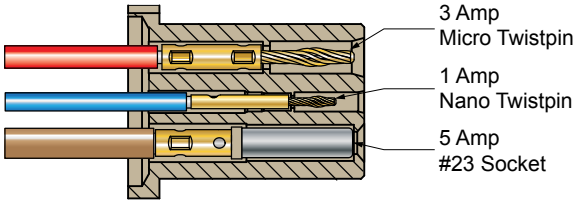
Threaded Coupling

881-018P Cable Plug, Solder Cup

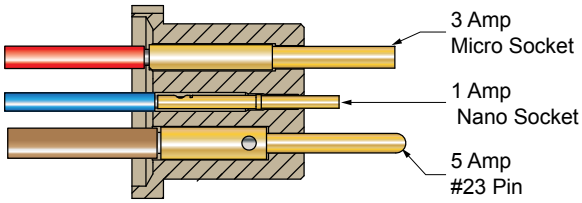
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

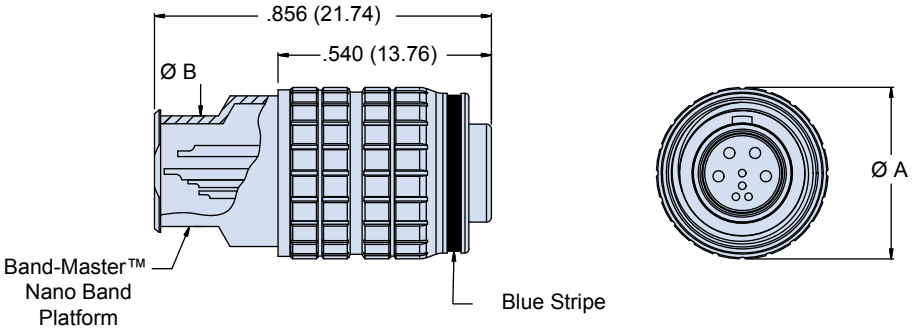
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions				
Shell Size	A Dia		B Dia.	
	In	mm	In	mm
B	0.357	9.07	0.199	5.05
C	0.377	9.58	0.224	5.69
D	0.397	10.08	0.237	6.02
E	0.416	10.57	0.263	6.68
F	0.436	11.07	0.282	7.16
G	0.456	11.58	0.304	7.72
H	0.495	12.57	0.341	8.66
J	0.535	13.59	0.369	9.37
K	0.555	14.10	0.391	9.93
L	0.594	15.09	0.430	10.92

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

Threaded Coupling

881-029R Cable Receptacle, Solder Cup



Series 881 threaded coupling cable receptacle with solder cup contacts for soldering to wires. Thread-on rear adapter allows access to contacts. Install cable shield braid directly to connector with Band-Master Micro band. Three contact sizes are available with current ratings of 5A, 3A and 1A. Aluminum or stainless steel housings and thermoplastic insulators. Ultraminiature SuperFly® connectors are ideal for soldier systems and other applications where reduced size and weight are a must.

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of insert arrangement represents connector shell size, as in this example K13M19N

How To Order

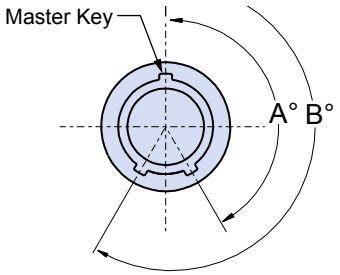
Sample Part Number	881-029R	A	-B7N	-M
Series	881-029R			
Insert Style	A = Unshrouded Contacts B = Shrouded Contacts are recessed within the insulator			
Shell Size / Insert Arr.[1]	See Shell Size and Insert Arrangement Table			
Material/ Finish[2]	M = Aluminum/electroless nickel RoHS compliant ZR = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate MT = Aluminum/nickel-PTFE RoHS compliant ZMT = Stainless steel/nickel-PTFE RoHS compliant			

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 881-018RA-B7N-M-**686A**

Plug Alternate Key Positions

Suffix Code	A°	B°
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



SUITABLE WIRE RANGES

Wire Ranges

5A (#23)	3A (Micro)	1A (Nano)
22-28 AWG	24-30 AWG	30-32 AWG

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

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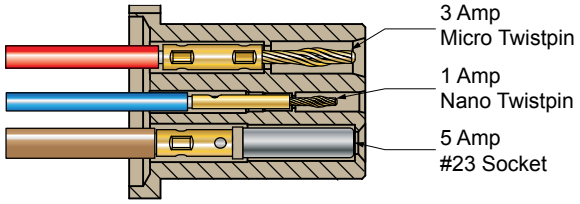
Threaded Coupling

881-029R Cable Receptacle, Solder Cup

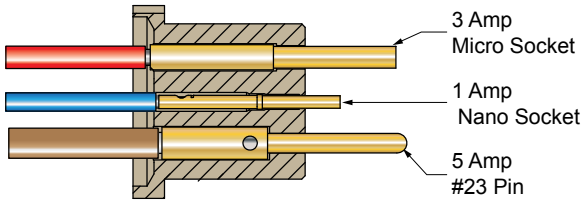
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

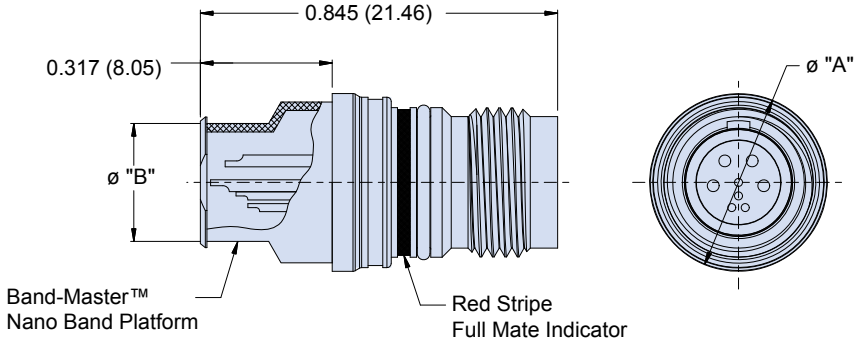
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

Shrouded
Type B Insert



Unshrouded
Type A Insert





Dimensions				
Shell Size	A Dia		B Dia.	
	In	mm	In	mm
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H	0.495	12.57	0.341	8.66
J	0.535	13.59	0.369	9.37
K	0.555	14.10	0.391	9.93
L	0.594	15.09	0.430	10.92

SERIES 88
CORDSETS

SuperFly® Cordsets

High-performance, lightweight, overmolded cordsets for soldier system applications.



Glenair Series 88 ***SuperFly***® cordsets are the new standard for highspeed performance, ultraminiature interconnection systems. Our single-ended and back-to-back Series 88 ***SuperFly***® cables offer three contact sizes, two coupling styles, twenty-seven contact arrangements. Standard jacket options include polyurethane and nylon braid. These lightweight, ultra-flexible cables are ideally suited for battlefield and other rugged applications where highspeed performance is essential.



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www.glenair.com

SERIES 886

SuperFly® Cordsets

Product Selection Guide

Quick Disconnect (QDC), Single-Ended and Back-to-Back



886-017P
Single-Ended QDC Cable Plug with Nylon Overbraid
Page 4



886-018P
Single-Ended QDC Cable Plug with Polyurethane Jacket
Page 4



880-019R
Single-Ended QDC Cable Receptacle with Nylon Overbraid
Page 6



880-020R
Single-Ended QDC Cable Receptacle with Polyurethane Jacket
Page 6



880-0026
Back-to-Back QDC Cordset with Nylon Overbraid
Page 8



880-027
Back-to-Back QDC Cordset with Polyurethane Jacket
Page 8

Threaded Coupling, Single-Ended and Back-to-Back



886-021P
Single-Ended Threaded Coupling Cable Plug with Nylon Overbraid
Page 10



886-022P
Single-Ended Threaded Coupling Cable Plug with Polyurethane Jacket
Page 10



886-023R
Single-Ended Threaded Coupling Cable Receptacle with Nylon Overbraid
Page 12



886-024R
Single-Ended Threaded Coupling Cable Receptacle with Polyurethane Jacket
Page 12



880-028
Back-to-Back Threaded Coupling Cordset with Nylon Overbraid
Page 14



880-029
Back-to-Back Threaded Coupling Cordset with Polyurethane Jacket
Page 14

Single-Ended Low Profile "Cobra" Equipped Cordsets



886-025
Overmolded Cordset with "Cobra" Quick Disconnect 90° Plug
Page 16



886-014
Overmolded Cordset with "Cobra" Quick Disconnect 180° Entry Plug
Page 18



886-016
Overmolded Cordset with "Cobra" Threaded Coupling 90°
Page 20

D

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SERIES 886

SuperFly® Single-Ended and Back-to-Back Cordsets

SuperFly®overmolded quick-disconnect (QDC) or threaded coupling cordsets are now available as single-ended and back-to-back assemblies. Both have highly conductive nickel copper shield with 90 percent coverage. 5A contacts are terminated to #24AWG wire, 3A contacts are terminated to #26AWG wire, and 1A contacts are terminated to #30AWG Teflon wire. Color-coded wires. Two types of standard wire protection available: nylon overbraid for superior flexibility or abrasion-resistant thermoplastic polyurethane. Both styles available with polyamide connector overmold. Nickel-plated aluminum assemblies are ideal for protected environments where corrosion is not a problem. Non-reflective nickel-PTFE plated aluminum offers excellent conductivity, durability and corrosion resistance. Black zinc-nickel is preferred for soldier systems.

Product Specifications			
Contact (Size)	5 Amp (#23)	3 Amp (Micro)	1 Amp (Nano)
Current Rating	5A	3A	1A
Wire Size	#22-28 AWG	#24-30 AWG	#28-32 AWG
DWV	500Vac	600Vac	250Vac
Contact Resistance	20 mΩ	32 mΩ	80 mΩ
Insulation Resistance	200 megaohms minimum		
Temperature Range	-30°C to +105°C		
Durability	2000 Mating Cycles		
Water Immersion, Mated	IP67, MIL-STD-810 Method 512 (1 meter, 1 hours)		
Solvent Resistance	Excellent resistance to most solvents, fuels and oils		
Vibration	37g		
Shock	300g		
Shielding Effectiveness	>55dB minimum from 100 MHz to 1000MHz		

Materials and Finishes	
Property	Description
Insulator	Thermoplastic, glass-reinforced
Shell	Aluminum or stainless steel. See ordering info.
1A. Contact	Precious metal alloy
3A. and 5A. Contact	Copper alloy, 50 microinches gold over nickel finish
Encapsulant	Epoxy
Wire	Silver-coated high-strength copper alloy
Wire Insulation	Cross-linked fluoropolymer, color-coded per MIL-STD-681 (full color)
Overmold	Solvent-resistant polyamide
Cable shield	Contact factory for material specifications
Shield Coverage	90% minimum coverage
Outer Jacket	Nylon braid or extruded low smoke zero halogen thermoplastic polyurethane (TPU), black

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SERIES 886

SuperFly® Cordsets

Single-Ended or Back-to-Back Cordsets with Braided or Polyurethane Jacket

- **Single-Ended and Back-to-Back**
- **Waterproof in mated condition**
- **100% electrically tested**
- **Nylon braid flexible to -50° C**
- **Rugged watertight construction**
- **Three contact sizes: 5A, 3A and 1A**
- **Nylon overbraid or TPU jacket**
- **Multi-branch complex cables also available**

ABOUT SUPERFLY® MATERIALS AND FINISHES

Four standard material and finish options are available.

1 Aluminum shell with ***Electroless Nickel*** (EN). High reflectivity and poor corrosion resistance make nickel a poor choice for tactical systems, but nickel is preferred for avionics systems, space vehicles, medical equipment and test gear where corrosion is not a primary concern. Nickel is highly conductive and is excellent for EMI-protected systems.

2 Aluminum shell with ***Black Zinc-Nickel*** (Zn-Ni). Although less conductive than other finishes, non-reflective black Zn-Ni is a typical choice for soldier gear and is RoHS compliant. Corrosion resistance is good.

3 Aluminum shell with ***Electroless Nickel-PTFE*** (EN-PTFE). Excellent durability, corrosion resistance and conductivity. Non-reflective EN-PTFE is a primary choice for any harsh environment. Inherently lubricious, resists galling.

4 Aluminum shell with ***Olive Drab or Cadmium*** (OD over Cad). excellent, corrosion resistance and excellent conductivity. Non-reflective OD over Cad is a primary choice for defense and aerospace applications. Inherently lubricious, resists galling.

5 Stainless steel shell with ***Zinc-Cobalt*** (ZN-CO). Excellent durability, corrosion resistance and conductivity. Non-reflective black finish is an excellent choice for any harsh environment.

6 Stainless steel, **Passivated** finish. Excellent corrosion resistance, good conductivity. A good choice for high corrosion areas where EMI shielding is not a primary concern. Suitable for most aerospace and tactical gear.

7 Stainless steel, **Ni-PTFE** finish. Excellent corrosion resistance and excellent conductivity. A good choice for high corrosion areas where EMI shielding is a primary concern. Highly conductive, non-reflective Ni-PTFE finish is suitable for all aerospace and tactical systems.

Material and Finish Comparison Data

Property	1	2	3	4	5	6	7
Material and Finish	Aluminum Electroless Nickel	Aluminum Black Zinc-Nickel	Aluminum Electoless Nickel-PTFE	Aluminum Olive Drab over Cadmium	Stainless Steel Black Zinc-Cobalt	Stainless Steel Passivated	Stainless Steel Electroless Nickel-PTFE
Glenair Code	M	ZR	MT	NF	ZC	ZK	ZMT
Corrosion Resistance	Poor	Good	Excellent	Very Good	Excellent	Excellent	Excellent
RoHS Compliance*	Yes	Yes	Yes	No	No	Yes	Yes
Conductivity	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent
Reflectivity	Reflective	Non-reflective	Non-reflective	Non-reflective	Non-reflective	Reflective	Non-reflective
Cost	$	$$	$$	$$	$$$$	$$$$	$$$$

* Meets DoD directives and European regulations for elimination of cadmium and hexavalent chromate.

ABOUT SUPERFLY® CABLE JACKETS

Standard SuperFly cable jackets include: extruded thermoplastic polyurethane (TPU) and nylon overbraid. TPU offers excellent all-round performance and is typically specified for military gear and oil exploration equipment. For soldier systems applications, nylon overbraid is an alternative to TPU jackets if weight and flexibility are of primary concern.

Additional jacket and overmold materials are available for custom cordsets. Contact the factory for more information.

Outer Jacket/Braid Comparison Data

Property	TPU Jacket	Nylon Overbraid
Flammability	Flame-Retardent	Flame-Retardent
UL 94V-0	Yes	No
Temperature Range	-45°C to +150°C	-50°C to +150°C
Flexibility	Good	Excellent
Solvent Resistance	Excellent	Good
Abrasion Resistance	Excellent	Very Good
Toxicity	Low Smoke, Zero Halogen	Zero Halogen

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SERIES 886

QDC CORDSET

886-017 and 886-018, Single-Ended Plug Cordset

886-017P AND 886-018 QDC PLUG CORDSET WITH NYLON OVERBRAID OR POLYURETHANE JACKET



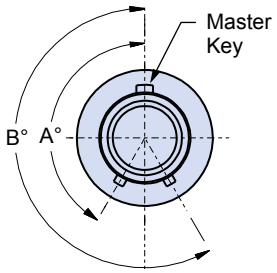
Overmolded Quick Disconnect plug cordsets feature abrasion resistant extruded polyurethane jackets or ultraflexible nylon overbraid. Polyamide overmold, tinned copper braid shield. High strength silver-coated copper alloy conductors, crosslinked ETFE insulation. Wire size depends on contact size. Several other cable types and overmold materials are available. Contact the factory for more information.

How To Order					
Sample Part Number	**886-017P**	**A**	**-B7N**	**-M**	**-18**
Series	**886-017P** = QDC inline plug with shielded, nylon overbraid **886-018P** = QDC inline plug with shielded, polyurethane jacket				
Insert Style	**A** = Unshrouded contacts **B** = Shrouded contacts are recessed within the insulator				
Shell Size and Insert Arrangement[1]	See Shell Size and Insert Arrangement Table				
Shell Material/Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZC** = Stainless steel/black zinc cobalt				
Wire Length	Indicated in inches; ex. **18** = 18 inches				

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 886-017PA-B7N-M-18-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

Glenair can also fulfill multi-branch cordset requests. Contact the factory to find out more about our capabilities.



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QDC CORDSET

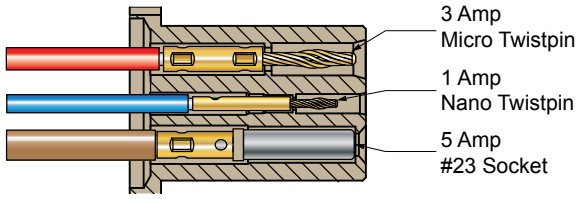
886-017 and 886-018, Single-Ended Plug Cordset

Glenair®

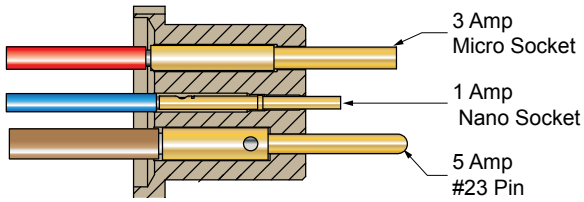
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

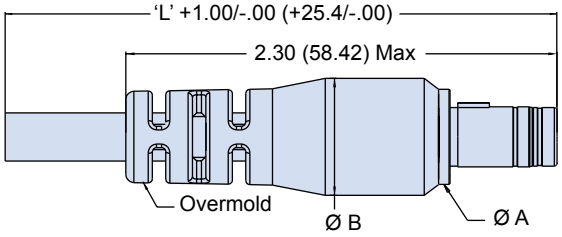
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

Shrouded
Type B Insert



Unshrouded
Type A Insert







886-017P
886-018P
Plug Cordset

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example K13M19N

Dimensions				
Shell Size	A Max OD		B Max OD	
	In	mm	In	mm
B	.325	8.26	.470	11.94
C	.350	8.89	.495	12.57
D	.365	9.27	.510	12.95
E	.390	9.91	.535	13.59
F	.410	10.41	.555	14.10
G	.430	10.92	.575	14.61
H	.470	11.94	.615	15.62
J	.495	12.57	.640	16.26
K	.520	13.21	.665	16.89
L	.560	14.22	.700	17.78

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

D

SERIES 886

QDC CORDSET

886-019 and 886-020, Single-Ended Receptacle Cordset

886-019R AND 886-020R QDC COUPLING WITH NYLON OVERBRAID OR POLYURETHANE JACKET



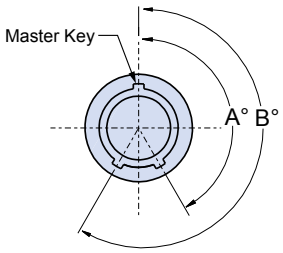
Overmolded Quick Disconnect receptacle cordsets feature abrasion resistant extruded polyurethane jackets or ultraflexible nylon overbraid. Polyamide overmold, tinned copper braid shield. High strength silver-coated copper alloy conductors, crosslinked ETFE insulation. Wire size depends on contact size. Size #23 contacts have #24 AWG wire, 3 amp micropins have #26 AWG wire, and 1 amp nanopins have #30 AWG wire.

How To Order					
Sample Part Number	**886-019R**	**A**	**-B7N**	**-M**	**-18**
Series	**886-019R** = QDC inline receptacle with shielded, nylon overbraid **886-020R** = QDC inline receptacle with shielded, polyurethane jacket				
Insert Style	**A** = Unshrouded contacts **B** = Shrouded contacts are recessed within the insulator				
Shell Size and Insert Arrangement[1]	See Shell Size and Insert Arrangement Table				
Shell Material/Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant				
Wire Length	**18** = 18 inches				

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 886-019RA-B7N-M-18-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

Glenair can also fulfill multi-branch cordset requests. Contact the factory to find out more about our capabilities.



D

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

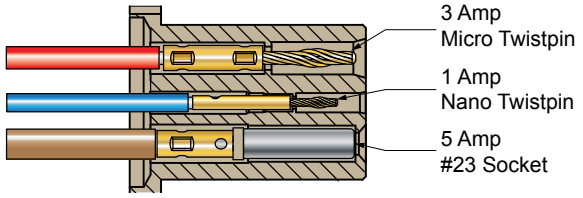
QDC CORDSET

886-019 and 886-020, Single-Ended Receptacle Cordset

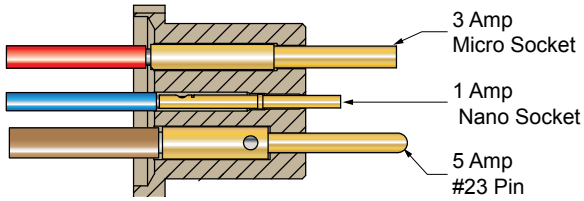
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

Shrouded
Type B Insert

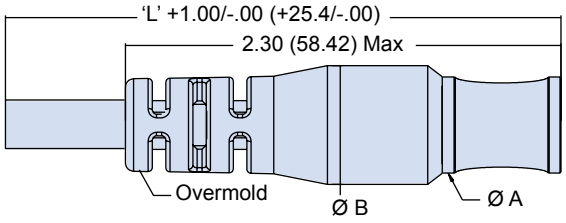


Unshrouded
Type A Insert



Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example K13M19N





886-019R
886-020R
Receptacle
Cordset

Dimensions				
Shell Size	A Max OD		B Max OD	
	In	mm	In	mm
B	.325	8.26	.470	11.94
C	.350	8.89	.495	12.57
D	.365	9.27	.510	12.95
E	.390	9.91	.535	13.59
F	.410	10.41	.555	14.10
G	.430	10.92	.575	14.61
H	.470	11.94	.615	15.62
J	.495	12.57	.640	16.26
K	.520	13.21	.665	16.89
L	.560	14.22	.700	17.78

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

D

QDC CORDSET

886-026 and 886-027, Back-to-Back Cordset

886-026 AND 886-027 QDC COUPLING WITH NYLON OVERBRAID OR POLYURETHANE JACKET



Overmolded quick disconnect back-to-back cordsets feature abrasion resistant extruded polyurethane jackets or ultraflexible nylon overbraid. Polyamide overmold, tinned copper braid shield. High strength silver-coated copper alloy conductors, crosslinked ETFE insulation.

How To Order

Sample Part Number	886-026	P	A	R	B	-B7N	-MT	-18
Series	**886-026** QDC, nylon overbraid, back-to-back cordset **886-027** QDC, polyurethane jacketed, back-to-back cordset							
First Side (P1)	**Gender** **P** = Plug **R** = Receptacle							
	Contact Type **A** = Unshrouded contacts **B** = Shrouded contacts are recessed within the insulator							
Second Side (P2)	**Gender** **P** = Plug **R** = Receptacle							
	Contact Type **A** = Unshrouded contacts **B** = Shrouded contacts are recessed within the insulator							
Shell Size and Insert Arr[1]	See shell size and insert arrangement table							
Shell Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/black zinc-nickel over electroless nickel **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant							
Wire Length	**18** = 18 inches							

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example **K**13M19N

WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

D

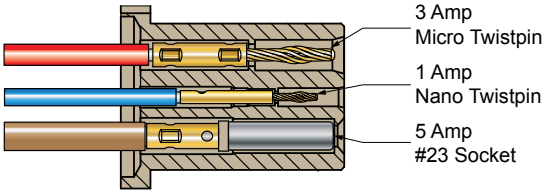
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QDC CORDSET

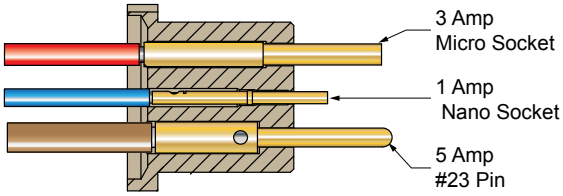
886-026 and 886-027, Back-to-Back Cordset

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

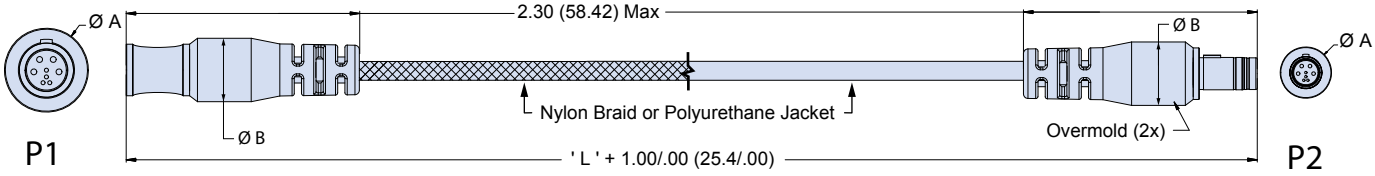
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.



Shrouded Type B Insert



Unshrouded Type A Insert



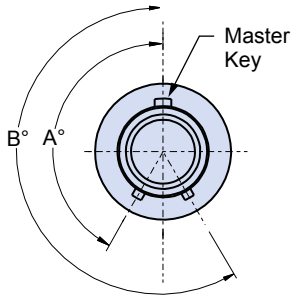
Dimensions				
Shell Size	A Max OD		B Max OD	
	In.	mm.	In.	mm.
B	.345	8.76	.470	11.94
C	.370	9.40	.495	12.57
D	.380	9.65	.510	12.95
E	.410	10.41	.535	13.59
F	.430	10.92	.555	14.10
G	.450	11.43	.575	14.61
H	.485	12.32	.615	15.62
J	.515	13.08	.640	16.26
K	.535	13.59	.665	16.89
L	.575	14.61	.700	17.78

MOD-686 POLARIZING OPTIONS

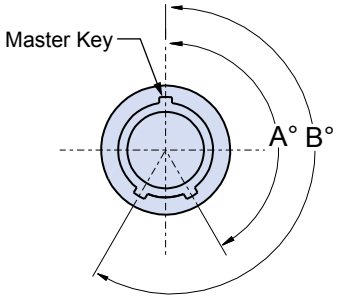
Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example:
886-026PARB-B7N-MT-18-**686A**

Plug Alternate Key Positions			
Key Position	Suffix Code	A°	B°
A	**686A**	150°	210°
B	**686B**	75°	210°
C	**686C**	95°	230°
D	**686D**	140°	275°
E	**686E**	75°	275°
F	**686F**	95°	210°

PLUG



RECEPTACLE



D

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Threaded Coupling Cordset

886-021 and 886-022
Single-Ended Plug Cordset

886-021 AND 886-022 THREADED PLUG WITH NYLON OVERBRAIDED OR POLYURETHANE JACKET



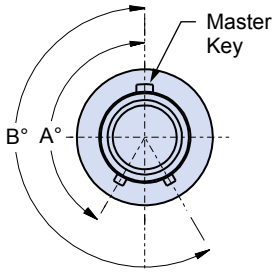
Overmolded threaded plug cordsets feature abrasion resistant extruded polyurethane jackets or ultraflexible nylon overbraid. Polyamide overmold, tinned copper braid shield. High strength silver-coated copper alloy conductors, crosslinked ETFE insulation. Wire size depends on contact size. Size #23 contacts have #24 AWG wire, 3 amp micropins have #26 AWG wire, and 1 amp nanopins have #30 AWG wire.

How To Order						
Sample Part Number		886-022R	A	-B7N	-M	-18
Series	**886-021P** = Threaded coupling plug with shielded, nylon overbraid **886-022P** = Threaded coupling plug with shielded, polyurethane jacket					
Insert Style	**A** = Unshrouded contacts **B** = Shrouded contacts are recessed within the insulator					
Shell Size and Insert Arrangement[1]	See Shell Size and Insert Arrangement Table					
Shell Material/Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
Wire Length	**18** = 18 inches					

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 886-021RA-B7N-M-18-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

Glenair can also fulfill multi-branch cordset requests. Contact the factory to find out more about our capabilities.



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

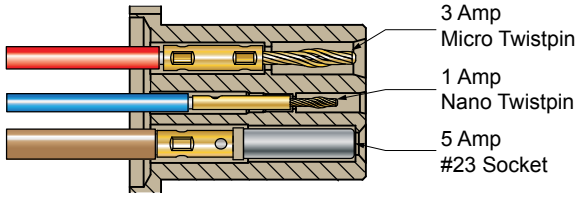
Threaded Coupling Cordset

886-021 and 886-022
Single-Ended Plug Cordset

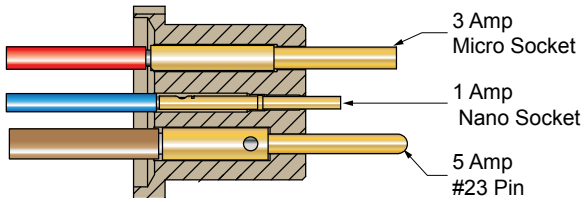
ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

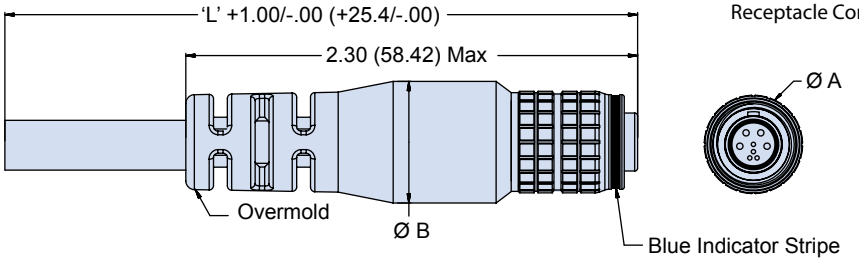
Shrouded
Type B Insert



Unshrouded
Type A Insert



886-021P
886-022P
Receptacle Cordset



Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example K13M19N

Dimensions				
Shell Size	A Max OD		B Max OD	
	In	mm	In	mm
B	.365	9.27	.470	11.9
C	.385	9.78	.495	12.6
D	.405	10.29	.510	13.0
E	.420	10.67	.535	13.6
F	.440	11.18	.555	14.1
G	.460	11.68	.575	14.6
H	.500	12.70	.615	15.6
J	.540	13.72	.640	16.3
K	.560	14.22	.665	16.9
L	.600	15.24	.700	17.8

NOTES

1. See Section A for insert arrangement layouts and PCB footprints
2. See Section A for additional finish options

D

SERIES 886

Threaded Coupling Cordset

886-023 and 886-024
Single-Ended Receptacle Cordset

886-023P AND 886-024P THREADED COUPLING RECEPTACLES WITH NYLON OVERBRAID OR POLYURETHANE JACKET



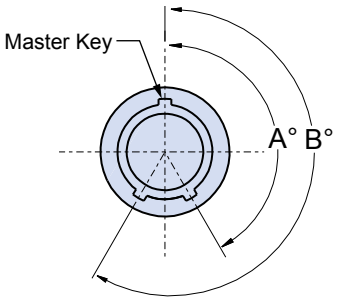
Overmolded threaded receptacle cordsets feature abrasion resistant extruded polyurethane jackets or ultraflexible nylon overbraid. Polyamide overmold, tinned copper braid shield. High strength silver-coated copper alloy conductors, crosslinked ETFE insulation. Wire size depends on contact size. Size #23 contacts have #24 AWG wire, 3 amp micropins have #26 AWG wire, and 1 amp nanopins have #30 AWG wire.

How To Order					
Sample Part Number	**886-024P**	**A**	**-B7N**	**-M**	**-18**
Series	**886-023R** = Threaded coupling receptacle with shielded, nylon overbraid **886-024R** = Threaded coupling receptacle with shielded, polyurethane jacket				
Insert Style	**A** = Unshrouded contacts **B** = Shrouded contacts are recessed within the insulator				
Shell Size and Insert Arrangement[1]	See Shell Size and Insert Arrangement Table				
Shell Material/Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant				
Wire Length	**18** = 18 inches				

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 886-024PA-B7N-M-18-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

Glenair can also fulfill multi-branch cordset requests. Contact the factory to find out more about our capabilities.



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Threaded Coupling Cordset

886-023 and 886-024
Single-Ended Receptacle Cordset

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.

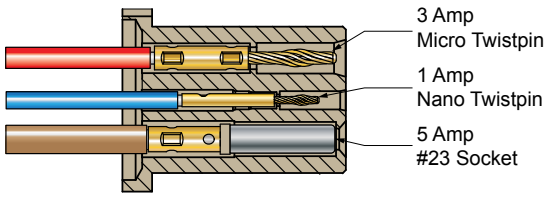


Figure 1
Shrouded Type B Insert

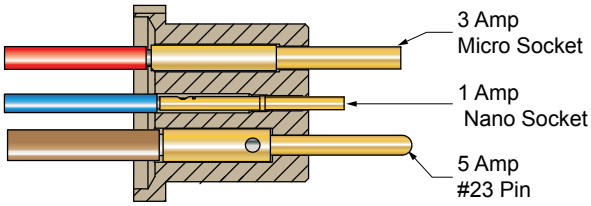
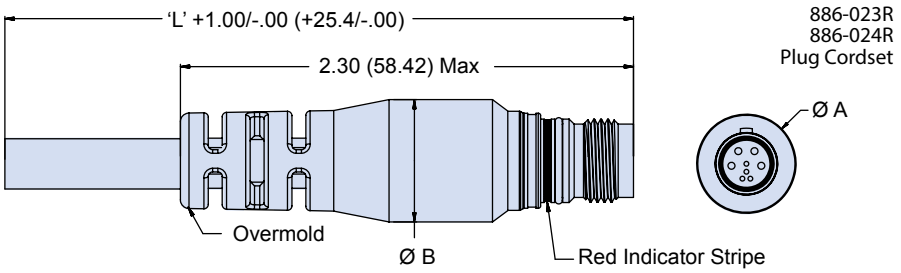


Figure 2
Unshrouded Type A Insert

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example K13M19N



Dimensions				
Shell Size	A Max OD		B Max OD	
	In	mm	In	mm
B	.345	8.76	.470	11.9
C	.370	9.40	.495	12.6
D	.380	9.65	.510	13.0
E	.410	10.41	.535	13.6
F	.430	10.92	.555	14.1
G	.450	11.43	.575	14.6
H	.485	12.32	.615	15.6
J	.515	13.08	.640	16.3
K	.535	13.59	.665	16.9
L	.575	14.61	.700	17.8

NOTES

1. See Section A for insert arrangement layouts and PCB footprints
2. See Section A for additional finish options

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Threaded Coupling Cordset

886-028 and 886-029 Back-to-Back Cordset

886-028 BACK-TO-BACK, THREADED COUPLING WITH NYLON OVERBRAID OR POLYURETHANE JACKET



Overmolded threaded coupling back-to-back cordsets feature abrasion resistant extruded polyurethane jackets or ultraflexible nylon overbraid. Polyamide overmold, tinned copper braid shield. High strength silver-coated copper alloy conductors, crosslinked ETFE insulation.

How To Order

Sample Part Number	886-028	P	A	R	B	-B7N	-M	-18
Series	**886-028** Threaded, nylon overbraid, back-to-back cordset **886-029** Threaded, polyurethane jacketed, back-to-back cordset							
First Side (P1)	**Gender** **P** = Plug **R** = Receptacle							
	Contact Type **A** = Unshrouded contacts **B** = Shrouded contacts are recessed within the insulator							
Second Side (P2)	**Gender** **P** = Plug **R** = Receptacle							
	Contact Type **A** = Unshrouded contacts **B** = Shrouded contacts are recessed within the insulator							
Shell Size and Insert Arr[1]	See shell size and insert arrangement table							
Shell Material/ Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/black zinc-nickel over electroless nickel **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant							
Wire Length	**18** = 18 inches							

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts #23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example **K**13M19N

WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

NOTES

1. See Section A for insert arrangement layouts
2. See Section A for additional finish options

D

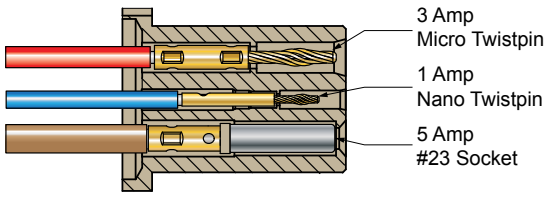
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Threaded Coupling Cordset

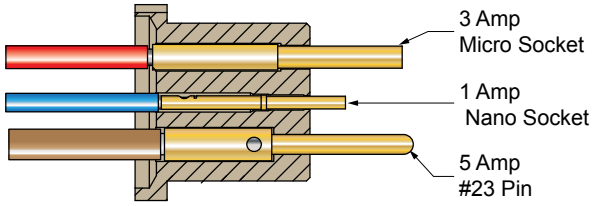
886-028 and 886-029 Back-to-Back Cordset

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

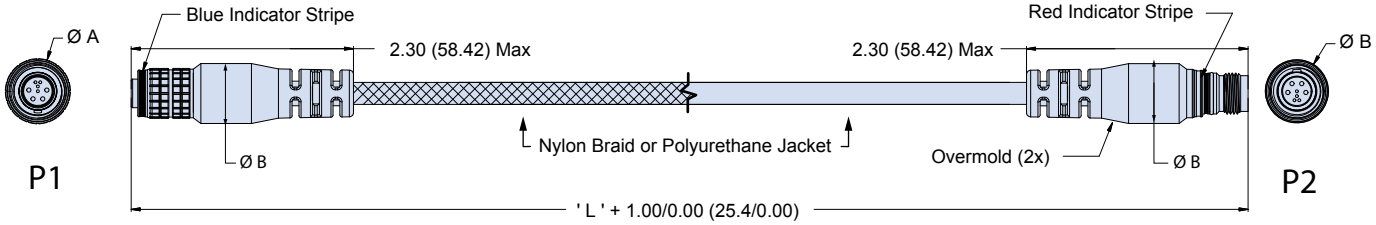
Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.



Shrouded Type B Insert



Unshrouded Type A Insert



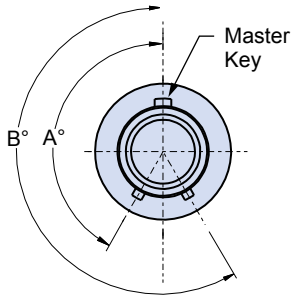
Dimensions				
Shell Size	Dia. A		Dia. B	
	In.	mm.	In.	mm.
A	0.336	8.53	0.320	8.13
B	0.356	9.04	0.339	8.61
C	0.375	9.53	0.364	9.25
D	0.395	10.03	0.377	9.58
E	0.415	10.54	0.403	10.24
F	0.434	11.02	0.422	10.72
G	0.454	11.53	0.444	11.28
H	0.493	12.52	0.481	12.22
J	0.533	13.54	0.509	12.93
K	0.553	14.05	0.531	13.49
L	0.592	15.04	0.570	14.48

MOD-686 POLARIZING OPTIONS

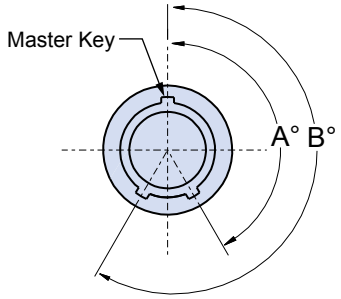
Standard Superfly connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example:
886-027PARB-B7N-MT-18-**686A**

Plug Alternate Key Positions			
Key Position	Suffix Code	A°	B°
A	686A	150°	210°
B	686B	75°	210°
C	686C	95°	230°
D	686D	140°	275°
E	686E	75°	275°
F	686F	95°	210°

PLUG



RECEPTACLE



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"Cobra" QDC Cordset

886-025 Single-Ended Overmolded "Cobra" Cordset with 90° Entry Plug

886-025 QUICK DISCONNECT "COBRA" PLUG WITH POLYURETHANE JACKET AND SHIELDED WIRE



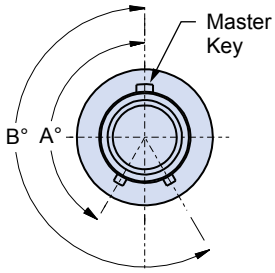
Polyurethane jacketed, Superfly® quick disconnect (QDC) single-ended cordsets with polyamide overmolded 90° "Cobra" plug. Three contact sizes are available, 5A, 3A and 1A. Aluminum or stainless steel housings, thermoplastic insulator, high-strength wire with crosslinked ETFE insulation. High performance crimp contacts, factory terminated to wires. Braided shield with 90% coverage.

How To Order						
Sample Part Number	**886-025P**	**-A**	**-B7N**	**-MT**	**-0**	**-18**
Series	**886-025P** Overmolded "Cobra" QDC Cordset with 90° Plug					
Insert Configuaration	**A** = Unshrouded Contacts **B** = Shrouded Contacts					
Shell Size and Insert Arrangement[1]	See Shell Size and Insert Arrangement Table					
Shell Material/Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **NF** = Aluminum/olive drab over cadmium **ZC** = Stainless steel/black zinc cobalt **ZK** = Stainless steel/passivate **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
Key Orientation	**0°, 90°, 180°, 270°** See figure 2					
Wire Length	**18** = 18 inches					

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 886-025P-A-B7N-MT-0-18-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

D

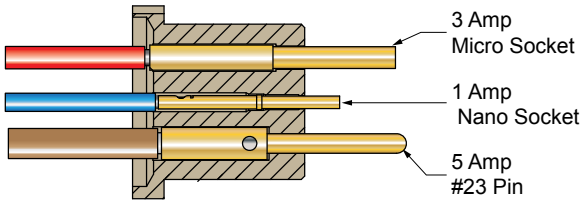
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"Cobra" QDC Cordset

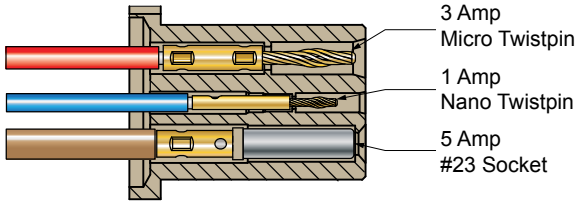
886-025 Single-Ended Overmolded "Cobra" Cordset with 90° Entry Plug

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.



Unshrouded
Type A Insert



Shrouded
Type B Insert

Shell Size and Insert Arrangements

Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example K13M19N

Figure 1

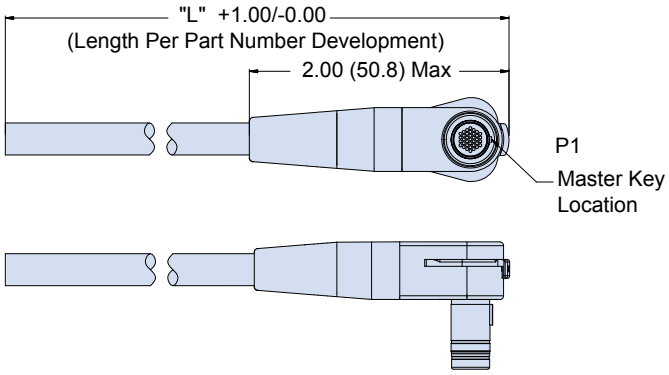
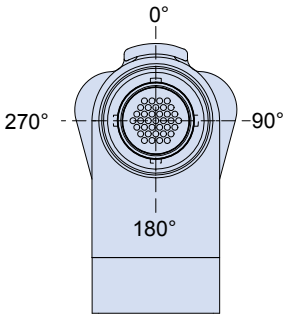


Figure 2: Master Key Orientation



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"Cobra" QDC Cordset

886-014 Single-Ended Overmolded "Cobra" Cordset with 180° Entry Plug

886-014 QUICK DISCONNECT "COBRA" PLUG WITH POLYURETHANE JACKET AND SHIELDED WIRE



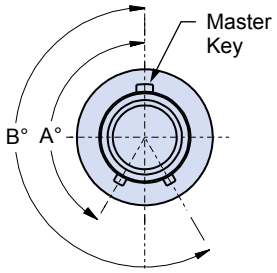
Polyurethane jacketed, Superfly® quick disconnect (QDC) single-ended cordsets with polyamide overmolded 180° Cobra connector. Three contact sizes are available, 5A, 3A and 1A. Aluminum or stainless steel housings, thermoplastic insulator, high-strength wire with crosslinked ETFE insulation. High performance crimp contacts, factory terminated to wires. Braided shield with 90% coverage.

How To Order						
Sample Part Number	886-014P	A	-B7N	-MT	-06	-18
Series	**886-014P** = Overmolded Cobra QDC cordset with 180° entry Plug					
Insert Configuaration	**A** = Unshrouded Contacts **B** = Shrouded Contacts					
Shell Size and Insert Arrangement[1]	See Shell Size and Insert Arrangement Table					
Shell Material/Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **NF** = Aluminum/olive drab over cadmium **ZC** = Stainless steel/black zinc cobalt **ZK** = Stainless steel/passivate **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
Master Key Location	**0** thru **350°** in 30° increments. See Master Key Location table					
Wire Length	**18** = 18 inches					

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 886-014PA-B7N-MT-0-18-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

D

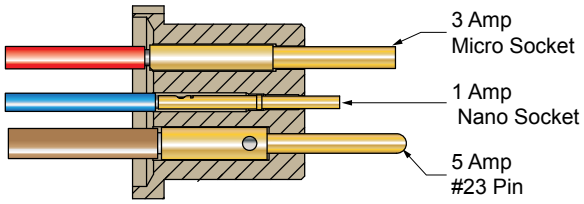
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"Cobra" QDC Cordset

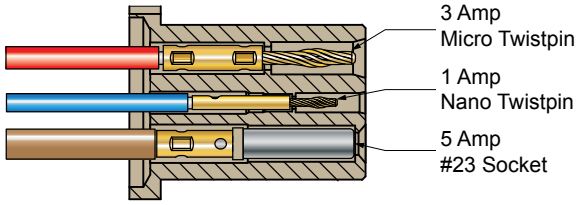
886-014 Single-Ended Overmolded "Cobra" Cordset with 180° Entry Plug

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.



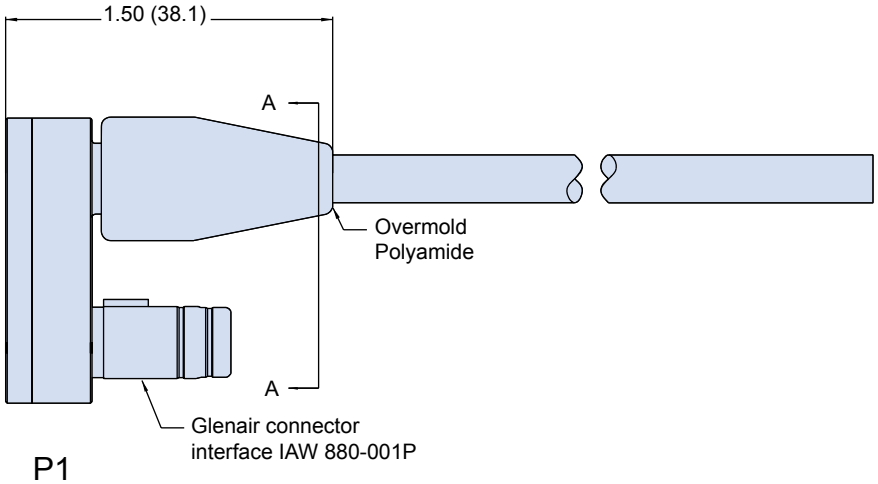
Unshrouded
Type A Insert



Shrouded
Type B Insert

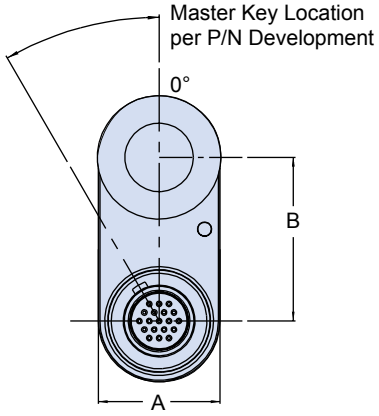
Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example K13M19N



P1

Master Key Location	
No.	Degrees
00	0°
01	30°
02	60°
03	90°
04	120°
05	150°
06	180°
07	210°
08	240°
09	270°
10	300°
11	330°



Section A-A

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"Cobra" Threaded Cordset

886-016 Single-Ended "Cobra" Threaded Coupling Cordset with 90° Entry Plug

886-016 QUICK DISCONNECT, 90° "COBRA" PLUG WITH POLYURETHANE JACKET AND SHIELDED WIRE



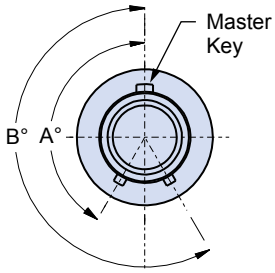
Superfly® threaded coupling single-ended cordset with polyamide overmolded 90° "Cobra" plug. Three contact sizes are available, 5A, 3A and 1A. Aluminum or stainless steel housings, thermoplastic insulator, high-strength wire with crosslinked ETFE insulation. High performance crimp contacts, factory terminated to wires. Braided shield with 90% coverage.

How To Order						
Sample Part Number	**886-016P**	**A**	**-B7N**	**-MT**	**-0**	**-18**
Series	**886-016P** = Overmolded threaded coupling "Cobra" Cordset with 90° Entry Plug					
Insert Configuaration	**A** = Unshrouded Contacts **B** = Shrouded Contacts					
Shell Size and Insert Arrangement[1]	See Shell Size and Insert Arrangement Table					
Shell Material/Finish[2]	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **NF** = Aluminum/olive drab over cadmium **ZC** = Stainless steel/black zinc cobalt **ZK** = Stainless steel/passivate **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
Key Orientation	**0** = 0° **90** = 90° **180** = 180° **270** = 270°					
Wire Length	Indicated in inches; ex. **18** = 18 inches					

MOD-686 POLARIZING OPTIONS

Standard SuperFly® connectors have a single master key. Versions with three keys are also available if alternate key positions are required. Add suffix code 686 to the part number per the following example: 886-016P-A-B7N-MT-0-18-**686A**

Plug Alternate Key Positions		
Suffix Code	**A°**	**B°**
686A	150°	210°
686B	75°	210°
686C	95°	230°
686D	140°	275°
686E	75°	275°
686F	95°	210°



WIRE GAUGES PER CONTACT

- 1A. contact (Nano) - 30 AWG
- 3A. contact (Micro) - 26 AWG
- 5A. contact (Size 23) - 24 AWG

D

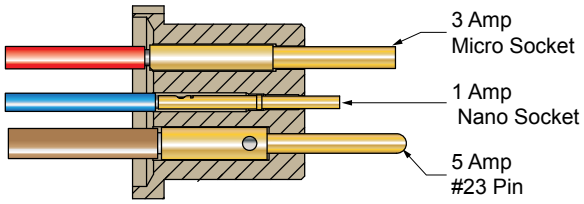
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"Cobra" Threaded Cordset

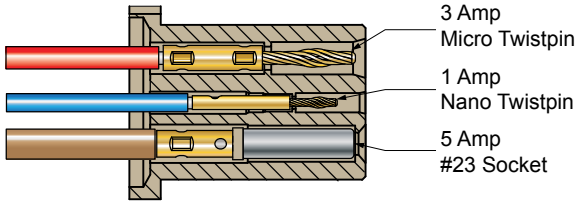
886-016 Single-Ended "Cobra" Threaded Coupling Cordset with 90° Entry Plug

ABOUT SHROUDED AND UNSHROUDED SUPERFLY® CONFIGURATIONS

Shrouded contacts are recessed within the insert. Unshrouded contacts extend from the insert face. Shrouded inserts contain 1 amp and 3 amp Twistpin contacts along with 5 amp socket contacts. Unshrouded inserts contain 1 amp and 3 amp sockets and 5 amp pin.



Unshrouded
Type A Insert



Shrouded
Type B Insert

Shell Size and Insert Arrangements			
Insert Arrangements	No. of Contacts		
	#23 5A.	Micro 3A.	Nano 1A.
B7N	—	—	7
C10N	—	—	10
C2M2N	—	2	2
D3M	—	3	—
D2W2N	2	—	2
E3W	3	—	—
E4M	—	4	—
E19N	—	—	19
E4M4N	—	4	4
F4W	4	—	—
F7M	—	7	—
F22N	—	—	22
F4M8N	—	4	8
F4W4N	4	—	4
G7W	7	—	—
G10M	—	10	—
G31N	—	—	31
G6M10N	—	6	10
G6M12N	—	6	12
H10W	10	—	—
H37N	—	—	37
H6W14N	6	—	14
J44N	—	—	44
J7W19N	7	—	19
K19M	—	19	—
K13M19N	—	13	19
L22M	—	22	—

First letter of contact arrrangement represents connector shell size. As in this example K13M19N

Figure 1

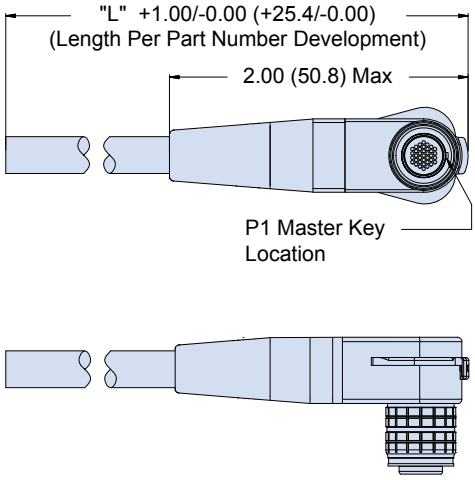
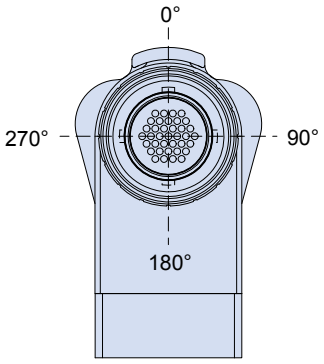


Figure 2: Master Key Orientation



D

SERIES 88
ACCESSORIES AND TOOLS

SuperFly®

Covers, Boots and other Accessories

For long term reliability and improved interconnect performance



Protect sensitive interconnect systems and cordsets from water ingress and debris aggregation with Glenair covers and heat shrink boots.

Neoprene or metal covers for QDC and threaded coupling connectors. Neoprene covers are made from fungus-resistant neoprene per ASTM D 2000 BC610Z1. Attachment options: nylon rope for attachment to cable or stainless steel wire rope for attaching to panel with screw.

Heatshrink boots provide strain relief and environmental protection. Shape-memory polymer returns to as-molded shape when heat is applied. A Semi-rigid high performance elastomer resists high temperature and withstands exposure to petroleum-based fluids and fuels. Also available with non-halogenated flame-retardant polyolefin for use where limited fire hazard is required.

Glenair®

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1211 Air Way
Glendale, CA 91201-2497
818-247-6000
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www.glenair.com

SERIES 88

SuperFly®

Accessories and Tools

Product Seletion Guide

Glenair®

Accessories



667-356R and 667-357P
Series 880 Plug and Receptacle Metal Covers for Series 880 QDC Connectors

Page 2



667-366R and 667-362P
Series 881 Metal Plug and Receptacle Covers for Series 881 Threaded Connectors

Page 4



889-004P and 889-005R
Rubber Dust Covers for Series 881 QDC Plugs and Receptacles

Page 6



889-006P and 889-007R
Rubber Dust Covers for Series 881 Threaded Plugs and Receptacles

Page 8



889-014R and 889-015R
Rear Panel Mount and Front Panel Mount Rubber Dust Covers for Series 880 and 881 Receptacle Connectors

Page 10



770-031
Straight or Right Angle Heat Shrink Boot with W1 Adhesive Lining or Optional Adhesives

Page 12

Tools



600-192
Spanner Nut Tightening Tool

Page 14



600-202
Spanner Tool for Front Panel Mount Jamnut

Page 14



601-108
BandMaster® ATS Nano Banding Tool and bands

Page 15

E

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667-356 Receptacle and 667-357 Plug, Metal Covers for Series 880 QDC Connectors

METAL PROTECTIVE COVERS FOR SERIES 880 QUICK-DISCONNECT PLUGS AND RECEPTACLES



Receptacle Cover



Plug Cover

Rugged metal protective covers fit 880 Series quick-disconnect (QDC) connectors.Protects connector from water and debris ingress. Three attachment options: nylon rope with lug termination (G-02 thru G-160) for attaching to panel, slip knot (GSCS) for attachment to cable or panel, and 1/32 inch stainless steel wire rope with loose crimp ferrule (SCF) for attaching to cable or to panel. Aluminum or stainless steel body.

How To Order						
Sample Part Number	**667-357**	**M**	**B**	**G**	**70**	**-2**
Series	**667-356** Receptacle, metal cover **667-357** Plug, metal cover					
Shell Material/Finish	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant					
Shell Size	See Dimensions Table for appropriate cover					
Attachment Type	**G** = 1/16 inch diameter black nylon rope **S** = 1/32 inch diameter black nylon coated SST wire rope **N** = No Lanyard Attachment **NB** = No lanyard or attachment boss					
Termination Type	See Attachment Termination table for code					
Attachment Length	Lanyard length in inches (recommended length 2.0 inches) Omit with attachment type **N**, **NB**					

Materials and Finishes	
Cover	Aluminum alloy or stainless steel. See Ordering Info for material and finish options
Lanyard	Black nylon rope .062" (1.57) diameter or 1/32" stainless steel rope with black nylon coating .034" (0.86) diameter
Crimp Ring, Attachment Ring and Crimp Ferrule	Stainless steel with black oxide finish
Shrink Sleeve	Polyolefin, black

E

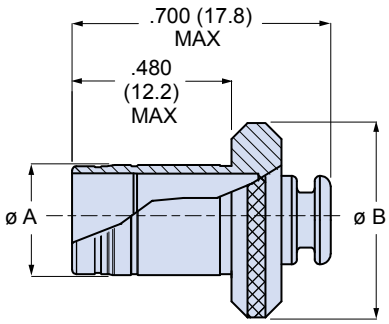
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Accessories and Tools

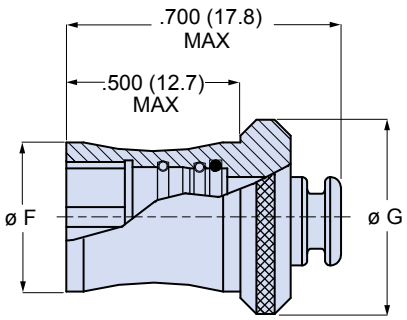
667-356 Receptacle and 667-357 Plug, Metal Covers for Series 880 QDC Connectors

Attachment Termination		
Termination Code	Description	Style
Ø 1/16 Nylon Cord Lanyard (Style "G") Attachment:		
-00	No Terminal	
-02 thru -160 See Table I	Lug Termination	D, Shrink Sleave, C
-SCS	Slip Crimp Sleeve[2]	Ø.50 Ref, Length Determined at .50 Dia. — Provides "slip knot" adjustment may be crimped for permanent attachment
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard
Ø 1/32 Stainless Steel Wire (Style "S") Attachment:		
-00	No Terminal	
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard

Receptacle Cover
667-356



Plug Cover
667-357



667-356 Dimensions				
Shell Size	Ø A		Ø B	
	In.	mm.	In.	mm.
B	0.169	4.30	0.417	10.60
C	0.194	4.90	0.442	11.20
D	0.207	5.30	0.455	11.60
E	0.233	5.90	0.481	12.20
F	0.252	6.40	0.500	12.70
G	0.274	7.00	0.522	13.30
H	0.311	7.90	0.559	14.20
J	0.339	8.60	0.587	14.90
K	0.361	9.20	0.609	15.50
L	0.400	10.20	0.648	16.50

667-357 Dimensions				
Shell Size	Ø F		Ø G	
	In.	mm.	In.	mm.
B	0.317	8.10	0.417	10.60
C	0.342	8.70	0.442	11.20
D	0.355	9.00	0.455	11.60
E	0.381	9.70	0.481	12.20
F	0.400	10.20	0.500	12.70
G	0.422	10.70	0.522	13.30
H	0.459	11.70	0.559	14.20
J	0.487	12.40	0.587	14.90
K	0.509	12.90	0.609	15.50
L	0.548	13.90	0.648	16.50

Table I: Lug Termination Codes				
Code	Ø C Max		Ø D Max	
	In	mm	In	mm
00	NO TERMINAL			
02	0.093	(2.40)	0.310	(7.90)
04	0.121	(3.10)	0.310	(7.90)
60	0.242	(6.10)	0.362	(9.20)
65	0.262	(6.70)	0.382	(9.70)
70	0.282	(7.20)	0.402	(10.20)
75	0.302	(7.70)	0.422	(10.70)
80	0.321	(8.20)	0.441	(11.20)
85	0.341	(8.70)	0.461	(11.70)
90	0.361	(9.20)	0.481	(12.20)
95	0.380	(9.70)	0.500	(12.70)
100	0.400	(10.20)	0.520	(13.20)
105	0.420	(10.70)	0.540	(13.70)
110	0.439	(11.20)	0.559	(14.20)
115	0.459	(11.70)	0.579	(14.70)
120	0.478	(12.10)	0.598	(15.20)
125	0.498	(12.60)	0.618	(15.70)
130	0.518	(13.20)	0.638	(16.20)
135	0.538	(13.70)	0.658	(16.70)
140	0.557	(14.10)	0.677	(17.20)
145	0.577	(14.70)	0.697	(17.70)
150	0.597	(15.20)	0.717	(18.20)
155	0.617	(15.70)	0.737	(18.70)
160	0.637	(16.20)	0.757	(19.20)
SCS	Slip/Crimp Sleeve			
CF	Crimp Ferrule (Loose)			

NOTES

1. Attachment to withstand 25 lb pull test
2. Slip/crimp sleeve (SCS) - for Type G nylon cord only
   Provides "slip knot" adjustment, may be crimped for permanent attachment
3. Crimp ferrule (CF) - for Type S wire rope and G nylon cord
   Supplied loose for user termination

E

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Accessories and Tools

667-366 Receptacle and 667-362 Plug Covers for Series 881 Threaded Connectors

METAL PROTECTIVE COVERS FOR SERIES 881 THREADED RECEPTACLES



Receptacle Cover

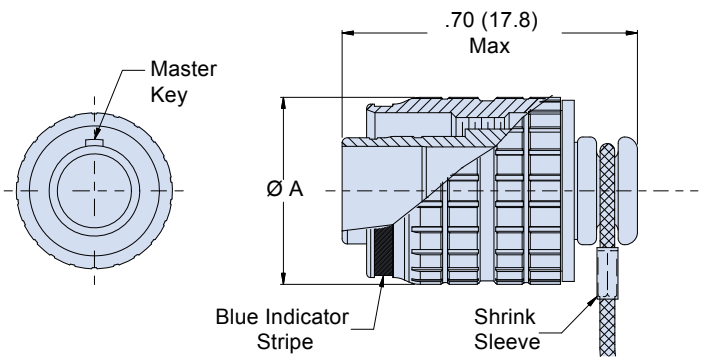


Plug Cover

Rugged metal protective covers fit 881 Series threaded connectors. Protects connector from water and debris ingress. Three attachment options: nylon rope with lug termination (G-02 thru G-160) for attaching to panel, slip knot (GSCS) for attachment to cable or panel, 1/32 inch stainless steel wire rope with loose crimp ferrule (SCF) for attaching to cable or to panel. Aluminum or stainless steel body.

How To Order							
Sample Part Number		**667-366**	**M**	**B**	**G**	**60**	**-3**
Series	**667-366** = Receptacle, metal cover **667-362** = Plug, metal cover						
Shell Material/Finish	**M** = Aluminum/electroless nickel RoHS compliant **ZR** = Aluminum/zinc-nickel, non-reflective with RoHS compliant black chromate **MT** = Aluminum/nickel-PTFE RoHS compliant **ZMT** = Stainless steel/nickel-PTFE RoHS compliant						
Shell Size	See Table I						
Attachment Type	**S** = Ø 1/32 black nylon coated stainless wire rope **G** = Ø 1/16 Nylon rope black **N** = No attachment						
Termination Type	See Attachment Termination table for code						
Attachment Length	Lanyard length in inches (recommended length 2.0 inches)						

667-366 RECEPTACLE COVER



Dimensions		
Shell Size	Ø A	
	In.	mm.
B	.355	9.02
C	.375	9.53
D	.395	10.03
E	.414	10.52
F	.434	11.02
G	.454	11.53
H	.493	12.52
J	.533	13.54
K	.553	14.05
L	.592	15.04

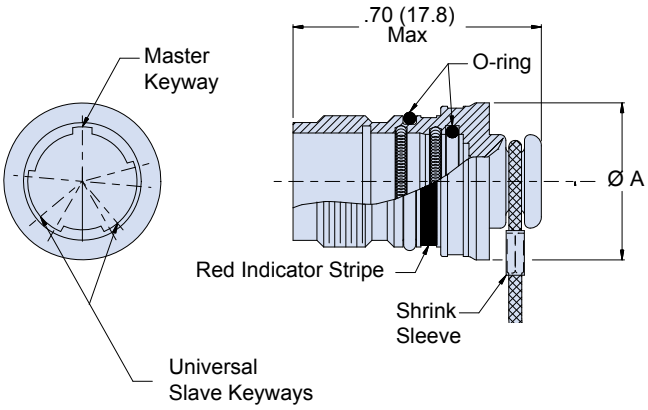
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Accessories and Tools

667-366 Receptacle and 667-362 Plug Covers for Series 881 Threaded Connectors

667-362 PLUG COVER



Dimensions		
Shell Size	Ø A	
A	0.318	8.10
B	0.337	8.60
C	0.362	9.20
D	0.375	9.50
E	0.401	10.20
F	0.420	10.70
G	0.442	11.20
H	0.479	12.20
J	0.507	12.90
K	0.529	13.40
L	0.568	14.40

METAL PROTECTIVE COVERS FOR SERIES 881 THREADED RECEPTACLES

Table I: Lug Termination Codes				
Code	Ø C Max		Ø D Max	
	In	mm	In	mm
00	NO TERMINAL			
02	0.093	(2.40)	0.310	(7.90)
04	0.121	(3.10)	0.310	(7.90)
60	0.242	(6.10)	0.362	(9.20)
65	0.262	(6.70)	0.382	(9.70)
70	0.282	(7.20)	0.402	(10.20)
75	0.302	(7.70)	0.422	(10.70)
80	0.321	(8.20)	0.441	(11.20)
85	0.341	(8.70)	0.461	(11.70)
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115	0.459	(11.70)	0.579	(14.70)
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125	0.498	(12.60)	0.618	(15.70)
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135	0.538	(13.70)	0.658	(16.70)
140	0.557	(14.10)	0.677	(17.20)
145	0.577	(14.70)	0.697	(17.70)
150	0.597	(15.20)	0.717	(18.20)
155	0.617	(15.70)	0.737	(18.70)
160	0.637	(16.20)	0.757	(19.20)
SCS	Slip/Crimp Sleeve			
CF	Crimp Ferrule (Loose)			

Attachment Termination		
Termination Code	Description	Style
Ø 1/16 Nylon Cord Lanyard (Style "G") Attachment:		
-00	No Terminal	
-02 thru -160 See Table I	Lug Termination	D, Shrink Sleave, C
-SCS	Slip/Crimp Sleeve[2]	Ø.50 Ref, Length, Determined at .50 Dia. — Provides "slip knot" adjustment may be crimped for permanent attachment
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard
Ø 1/32 Stainless Steel Wire (Style "S") Attachment:		
-00	No Terminal	
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard

Material/Finish:	
Cover	Al alloy or cres/see Table II
O-ring	Fluorosilicone/N.A.
Attachment	See Table II/N.A.
Eyelet	SST/black chromate
Shrink sleeving	polyolefin/N.A.
Crimp ring	copper/black chromate
SCS and CF for nylon cord	copper/black chromate
CF for wire rope	SST/passivated

NOTES

1. Attachment to withstand 25 lb pull test
2. Slip/crimp sleeve (SCS) - for Type G nylon cord only
   Provides "slip knot" adjustment, may be crimped for permanent attachment
3. Crimp ferrule (CF) - for Type S wire rope and G nylon cord
   Supplied loose for user termination

E

SuperFly®

Accessories and Tools

Glenair®

889-004 Plug & 889-005 Receptacle Dust Covers for Series 880 QDC Connectors



889-004 **889-005**

889-004 Neoprene cover fits 881-001P, 886-017P AND 886-018P plugs with QDC coupling. 889-005 fits 881-002R, 886-0019R and 886-020R receptacles with QDC coupling. Protects connector from water and debris ingress. Flexible stainless steel lanyard is coated with abrasion-resistant black nylon. Supplied with lanyard and ring, or with loose crimp ferrule for field termination of lanyard. Field terminate by looping lanyard around cable, compress ferrule with flat nose pliers and remove excess lanyard. -55° to +120°C. Meets fungus resistance requirement of MIL-STD-810.

- **Fungus-resistant neoprene per ASTM D 2000 BC610Z1**
- **Available for SuperFly QDC plugs and receptacles**
- **Attach with ring or field terminate with loose crimp ferrule (-CF)**
- **Flexible, high strength 1/32 inch stainless steel lanyard with black nylon coating**
- **Stainless steel attachment ring**
- **Copper alloy crimp ferrule with non-reflective black chromate over zinc finish**



889-004 cover fits all QDC coupling plugs

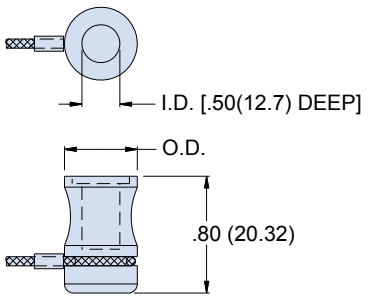


889-005 cover fits all QDC coupling receptacles

How To Order

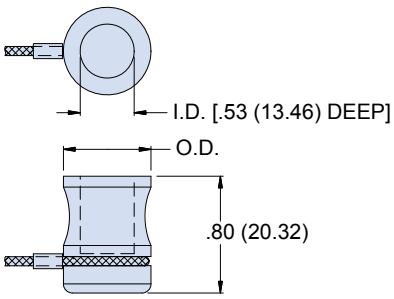
Sample Part Number	889-004	-F	G	4	-WS	C
Series	**889-004** Rubber Cover for QDC Plug **889-005** Rubber Cover for QDC Receptacles					
Cover Size	**A** thru **L**, See Dimensions Table					
Attachment Type	**Omit** = No attachment **G** = Ø1/16 black nylon cord **S** = Ø1/32 black nylon coated SST wire rope					
Attachment Length	Length in inches, ±.25 inches					
Termination Type	See Attachment Termination table for code					
Cover Material	**Omit** = Standard **C** = Conductive Neoprene blend (conductance = 100K ohms/sq. minimum)					

889-004 Dimensions



Dash no.	I.D.		O.D.	
	in	mm	in	mm
-A	.13	3.19	.40	9.80
-B	.15	3.68	.40	9.80
-C	.18	4.41	.45	11.03
-D	.19	4.66	.45	11.03
-E	.22	5.39	.45	11.03
-F	.24	5.88	.50	12.25
-G	.26	6.37	.50	12.25
-H	.28	6.86	.55	13.48
-J	.31	7.60	.55	13.48
-K	.33	8.09	.55	13.48
-L	.37	9.07	.60	14.70

889-005 Dimensions



Dash no.	I.D. 1		O.D.	
	in	mm	in	mm
-A	.27	6.62	.50	12.25
-B	.29	7.11	.55	13.48
-C	.31	7.60	.55	13.48
-D	.33	8.09	.55	13.48
-E	.35	8.58	.60	14.70
-F	.37	9.07	.60	14.70
-G	.39	9.56	.65	15.93
-H	.43	10.54	.65	15.93
-J	.46	11.27	.70	17.15
-K	.48	11.76	.70	17.15
-L	.52	12.74	.75	18.38

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Accessories and Tools

889-004 Plug & 889-005 Receptacle Dust Covers for Series 880 QDC Connectors

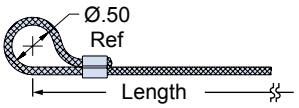
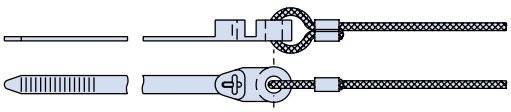
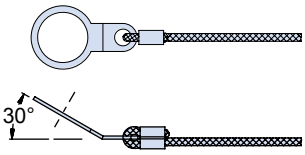
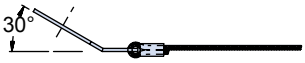
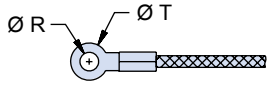
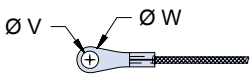
Attachment Termination		
Termination Code	Description	Style
Ø 1/16 Nylon Cord Lanyard (Style "G") Attachment:		
-00	No Terminal	
-01 thru -08 See Table I	Lug Termination	
-SCS	Slip Crimp Sleeve[2]	 Provides "slip knot" adjustment may be crimped for permanent attachment
-WS	With Strap	
-60 Thru -160 See Table III	Solid Ring	
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard
Ø 1/32 Stainless Steel Wire (Style "S") Attachment:		
-00	No Terminal Lug	
-11 thru -15 See Table II	Lug Termination	
-60 thru -160 See Table III	Solid Ring	
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard

Table I: Lug Termination Attachment for Nylon Rope



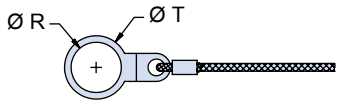
Dash No	Ø R ±.005		Ø T ±.005	
	In	mm	In	mm
-01	.098	2.49	.30	7.62
-02	.126	3.20	.30	7.62
-03	.140	3.56	.30	7.62
-04	.145	3.68	.30	7.62
-05	.156	3.96	.30	7.62
-06	.167	4.24	.30	7.62
-07	.188	4.78	.30	7.62
-08	.197	5.00	.30	7.62

Table II: Lug Termination Attachment for SST Wire Rope



Dash No	Ø V ±.005		Ø W ±.005	
	In	mm	In	mm
-11	0.093	2.36	0.14	3.56
-12	0.119	3.02	0.20	5.08
-13	0.145	3.68	0.20	5.08
-14	0.167	4.24	0.25	6.35
-15	0.197	5.00	0.25	6.35

Table III: Solid Ring Attachment for SST Wire or Nylon Rope



Dash No	Ø R ±.005		Ø T ±.005	
	In	mm	In	mm
-60	0.244	6.20	0.352	8.94
-65	0.264	6.71	0.372	9.45
-70	0.284	7.21	0.392	9.96
-75	0.304	7.72	0.412	10.46
-80	0.323	8.20	0.431	10.95
-85	0.343	8.71	0.451	11.46
-90	0.363	9.22	0.471	11.96
-95	0.382	9.70	0.490	12.45
-100	0.402	10.21	0.510	12.95
-105	0.422	10.72	0.530	13.46
-110	0.441	11.20	0.549	13.94
-115	0.461	11.71	0.569	14.45
-120	0.480	12.19	0.588	14.94
-125	0.500	12.70	0.608	15.44
-130	0.520	13.21	0.628	15.95
-135	0.540	13.72	0.648	16.46
-140	0.559	14.20	0.667	16.94
-145	0.579	14.71	0.687	17.45
-150	0.599	15.21	0.707	17.96
-155	0.619	15.72	0.727	18.47
-160	0.639	16.23	0.747	18.97

NOTES

1. Attachment to withstand 25 lb pull test
2. Slip/crimp sleeve (SCS) - for Type G nylon cord only. Provides "slip knot" adjustment, may be crimped for permanent attachment
3. Crimp ferrule (CF) - for Type S wire rope and G nylon cord
   Supplied loose for user termination

E

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Accessories and Tools

889-006 Plug & 889-007 Receptacle Dust Covers for Series 881 Threaded Connectors



889-006 **889-007**

889-006 Neoprene cover fits 880-001P, 886-021P AND 886-022P plugs with threaded coupling. 889-007 fits 881-002R, 886-023R and 886-024R receptacles with threaded coupling Protects connector from debris ingress. Flexible stainless steel lanyard is coated with abrasion-resistant black nylon. Supplied with lanyard and ring, or with loose crimp ferrule for field termination of lanyard. Field terminate by looping lanyard around cable, compress ferrule with flat nose pliers and remove excess lanyard. -55° to +120°C. Meets fungus resistance requirement of MIL-STD-810.

- **Fungus-resistant neoprene per ASTM D 2000 BC610Z1**
- **Fits SuperFly plugs with threaded coupling**
- **Attach with ring or field terminate with loose crimp ferrule (-CF)**
- **Flexible, high strength 1/32 inch stainless steel lanyard with black nylon coating**
- **Stainless steel attachment ring**
- **Copper alloy crimp ferrule with non-reflective black chromate over zinc finish**



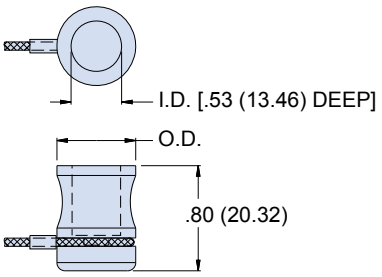
889-006 cover fits all threaded coupling plugs



889-007 cover fits all threaded coupling receptacles

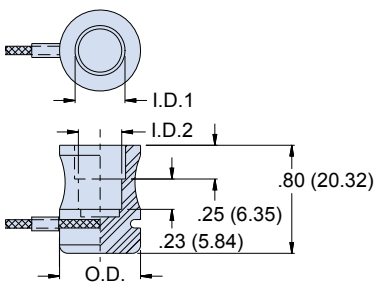
How To Order						
Sample Part Number	**889-006**	**-F**	**G**	**4**	**-02**	**C**
Series	**889-006** Rubber Cover for Threaded Plug **889-007** Rubber Cover for Threaded Receptacles					
Cover Size	**A** thru **L**, See Dimensions Table					
Attachment Type	**Omit** = No attachment **G** = Ø1/16 black nylon cord **S** = Ø1/32 black nylon coated SST wire rope					
Attachment Length	Length in inches, ±.25 inches					
Termination Type	See Attachment Termination table for code					
Cover Material	**Omit** = Standard **C** = Conductive Neoprene blend (conductance = 100K ohms/sq. minimum)					

889-006 Dimensions



Dash no.	I.D.		O.D.	
	in	mm	in	mm
-A	.31	7.87	.55	13.97
-B	.33	8.38	.55	13.97
-C	.35	8.89	.60	15.24
-D	.37	9.40	.60	15.24
-E	.38	9.65	.65	16.51
-F	.40	10.16	.65	16.51
-G	.42	10.67	.65	16.51
-H	.46	11.68	.70	17.78
-J	.50	12.70	.75	19.05
-K	.52	13.21	.75	19.05
-L	.56	14.22	.80	20.32

889-007 Dimensions



Dash no.	I.D. 1		I.D. 2		O.D.	
	in	mm	in	mm	in	mm
-A	.22	5.59	.28	7.11	.50	12.70
-B	.24	6.10	.30	7.62	.55	13.97
-C	.26	6.60	.32	8.13	.55	13.97
-D	.28	7.11	.34	8.64	.55	13.97
-E	.30	7.62	.36	9.14	.60	15.24
-F	.32	8.13	.38	9.65	.60	15.24
-G	.34	8.64	.40	10.16	.65	16.51
-H	.38	9.65	.44	11.18	.65	16.51
-J	.42	10.67	.48	12.19	.70	17.78
-K	.44	11.18	.50	12.70	.75	19.05
-L	.68	17.27	.54	13.72	.75	19.05

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Accessories and Tools

889-006 Plug & 889-007 Receptacle Dust Covers for Series 881 Threaded Connectors

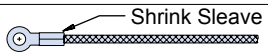
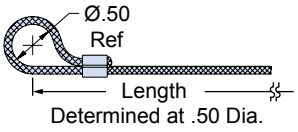
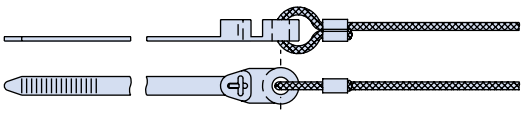
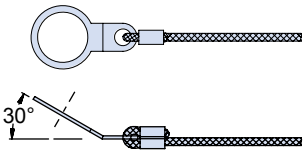
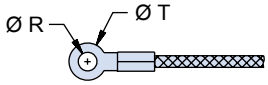
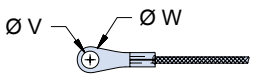
Attachment Termination		
Termination Code	Description	Style
Ø 1/16 Nylon Cord Lanyard (Style "G") Attachment:		
-00	No Terminal	
-01 thru -08 See Table I	Lug Termination	
-SCS	Slip Crimp Sleeve[2]	 Provides "slip knot" adjustment may be crimped for permanent attachment
-WS	With Strap	
-60 Thru -160 See Table III	Solid Ring	
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard
Ø 1/32 Stainless Steel Wire (Style "S") Attachment:		
-00	No Terminal Lug	
-11 thru -15 See Table II	Lug Termination	
-60 thru -160 See Table III	Solid Ring	
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard

Table I: Lug Termination Attachment for Nylon Rope



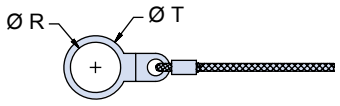
Dash No	Ø R ±.005		Ø T ±.005	
	In	mm	In	mm
-01	.098	2.49	.30	7.62
-02	.126	3.20	.30	7.62
-03	.140	3.56	.30	7.62
-04	.145	3.68	.30	7.62
-05	.156	3.96	.30	7.62
-06	.167	4.24	.30	7.62
-07	.188	4.78	.30	7.62
-08	.197	5.00	.30	7.62

Table II: Lug Termination Attachment for SST Wire Rope



Dash No	Ø V ±.005		Ø W ±.005	
	In	mm	In	mm
-11	0.093	2.36	0.14	3.56
-12	0.119	3.02	0.20	5.08
-13	0.145	3.68	0.20	5.08
-14	0.167	4.24	0.25	6.35
-15	0.197	5.00	0.25	6.35

Table III: Solid Ring Attachment for SST Wire or Nylon Rope



Dash No	Ø R ±.005		Ø T ±.005	
	In	mm	In	mm
-60	0.244	6.20	0.352	8.94
-65	0.264	6.71	0.372	9.45
-70	0.284	7.21	0.392	9.96
-75	0.304	7.72	0.412	10.46
-80	0.323	8.20	0.431	10.95
-85	0.343	8.71	0.451	11.46
-90	0.363	9.22	0.471	11.96
-95	0.382	9.70	0.490	12.45
-100	0.402	10.21	0.510	12.95
-105	0.422	10.72	0.530	13.46
-110	0.441	11.20	0.549	13.94
-115	0.461	11.71	0.569	14.45
-120	0.480	12.19	0.588	14.94
-125	0.500	12.70	0.608	15.44
-130	0.520	13.21	0.628	15.95
-135	0.540	13.72	0.648	16.46
-140	0.559	14.20	0.667	16.94
-145	0.579	14.71	0.687	17.45
-150	0.599	15.21	0.707	17.96
-155	0.619	15.72	0.727	18.47
-160	0.639	16.23	0.747	18.97

NOTES

1. Attachment to withstand 25 lb pull test
2. Slip/crimp sleeve (SCS) - for Type G nylon cord only provides "slip knot" adjustment, may be crimped for permanent attachment
3. Crimp ferrule (CF) - for Type S wire rope and G nylon cord
   Supplied loose for user termination

E

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Accessories and Tools

889-014 RPM & 889-015 FPM Rubber Dust Covers for Series 880 and 881 Receptacles



889-014 Rear Panel Mount Receptacle Cover



889-015 Front Panel Receptacle Cover



889-014 Cover Fits All QDC and Threaded Rear Panel Mount Receptacles



889-015 Cover Fits All QDC and Threaded Front Panel Mount Receptacles

Rubber protective dust covers for front and rear panel mount Series 88 connectors protect connectors from debris ingress. Two attachment cords available: 1/16 nylon rope or 1/32 inch stainless steel wire rope. Attachement options include: **slip crimp sleave** (SCS) for attaching to cable, **lug termination** (01-08) for attaching to panel with screw, **solid ring** (60-160) for installing under connector (rear panel mount only), **with strap** (WS) tie down looped through slip crimp sleave, and **crimp ferrule** (CF) for field termination. Attachment rings are stainless steel with black oxide finish.

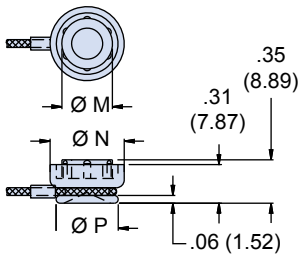
How To Order

Sample Part Number	889-014	-F	G	4	-02	C

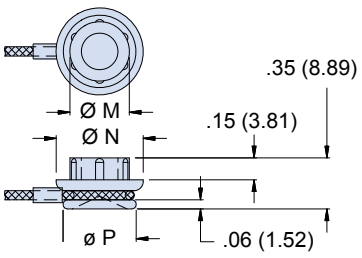
Series	**889-014** Rubber Cover for RPM Receptacles **889-015** Rubber Cover for FPM Receptacles
Cover Size	**A** thru **L**, See Dimensions Table
Attachment Cord	**Omit** = No attachment **G** = Ø1/16 black nylon cord **S** = Ø1/32 black nylon coated SST wire rope
Attachment Length	Length in inches, ±.25 inches
Termination Type	See Attachment Termination Table for code
Cover Material	**Omit** = Standard **C** = Conductive Neoprene blend (conductance = 100K ohms/sq. minimum) thru hole

Dimensions

889-014 Rear Panel Mount



889-015 Front Panel Mount



Dash no.	Ø M		Ø N		Ø P	
	in	mm	in	mm	in	mm
-A	0.16	4.06	0.34	8.64	0.25	6.35
-B	0.18	4.57	0.36	9.14	0.25	6.35
-C	0.20	5.08	0.38	9.65	0.28	7.11
-D	0.21	5.33	0.40	10.16	0.28	7.11
-E	0.24	6.10	0.42	10.67	0.31	7.87
-F	0.26	6.60	0.44	11.18	0.31	7.87
-G	0.28	7.11	0.46	11.68	0.38	9.65
-H	0.32	8.13	0.50	12.70	0.38	9.65
-J	0.35	8.89	0.54	13.72	0.44	11.18
-K	0.37	9.40	0.56	14.22	0.44	11.18
-L	0.41	10.41	0.60	15.24	0.50	12.70

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Accessories and Tools

889-014 RPM & 889-015 FPM Rubber Dust Covers for Series 880 and 881 Receptacles

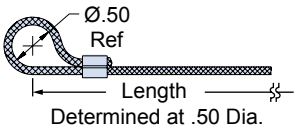
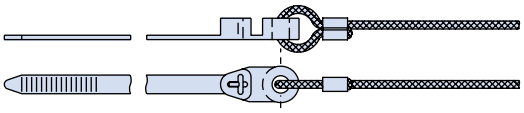
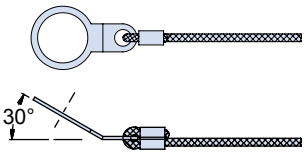
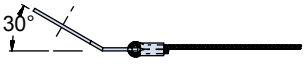
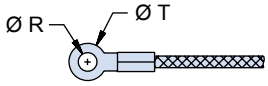
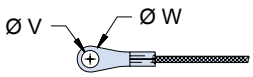
Attachment Termination		
Termination Code	Description	Style
Ø 1/16 Nylon Cord Lanyard (Style "G") Attachment:		
-00	No Terminal	
-01 thru -08 See Table I	Lug Termination	
-SCS	Slip Crimp Sleeve[2]	 Provides "slip knot" adjustment may be crimped for permanent attachment
-WS	With Strap	
-60 Thru -160 See Table III	Solid Ring	
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard
Ø 1/32 Stainless Steel Wire (Style "S") Attachment:		
-00	No Terminal Lug	
-11 thru -15 See Table II	Lug Termination	
-60 thru -160 See Table III	Solid Ring	
-CF	Crimp Ferrule[3]	Supplied loose for field termination of lanyard

Table I: Lug Termination Attachment for Nylon Rope



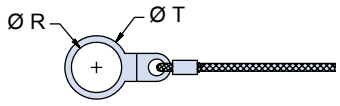
Dash No	Ø R ±.005		Ø T ±.005	
	In	mm	In	mm
-01	.098	2.49	.30	7.62
-02	.126	3.20	.30	7.62
-03	.140	3.56	.30	7.62
-04	.145	3.68	.30	7.62
-05	.156	3.96	.30	7.62
-06	.167	4.24	.30	7.62
-07	.188	4.78	.30	7.62
-08	.197	5.00	.30	7.62

Table II: Lug Termination Attachment for SST Wire Rope



Dash No	Ø V ±.005		Ø W ±.005	
	In	mm	In	mm
-11	0.093	2.36	0.14	3.56
-12	0.119	3.02	0.20	5.08
-13	0.145	3.68	0.20	5.08
-14	0.167	4.24	0.25	6.35
-15	0.197	5.00	0.25	6.35

Table III: Solid Ring Attachment for SST Wire or Nylon Rope



Dash No	Ø R ±.005		Ø T ±.005	
	In	mm	In	mm
-60	0.244	6.20	0.352	8.94
-65	0.264	6.71	0.372	9.45
-70	0.284	7.21	0.392	9.96
-75	0.304	7.72	0.412	10.46
-80	0.323	8.20	0.431	10.95
-85	0.343	8.71	0.451	11.46
-90	0.363	9.22	0.471	11.96
-95	0.382	9.70	0.490	12.45
-100	0.402	10.21	0.510	12.95
-105	0.422	10.72	0.530	13.46
-110	0.441	11.20	0.549	13.94
-115	0.461	11.71	0.569	14.45
-120	0.480	12.19	0.588	14.94
-125	0.500	12.70	0.608	15.44
-130	0.520	13.21	0.628	15.95
-135	0.540	13.72	0.648	16.46
-140	0.559	14.20	0.667	16.94
-145	0.579	14.71	0.687	17.45
-150	0.599	15.21	0.707	17.96
-155	0.619	15.72	0.727	18.47
-160	0.639	16.23	0.747	18.97

NOTES

1. Attachment to withstand 25 lb pull test
2. Slip/crimp sleeve (SCS) - for Type G nylon cord only provides "slip knot" adjustment, may be crimped for permanent attachment
3. Crimp ferrule (CF) - for Type S wire rope and G nylon cord
   Supplied loose for user termination

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Accessories and Tools

770-031 Straight Heat Shrink Boot

Product Series and Basic Number	Angular Function	Material	Boot Size	Adhesive
770-031	S = Straight	1 = Table III	02 = Table I	W1 = See Table II, All Boots are Adhesive Lined (Standard is W1)

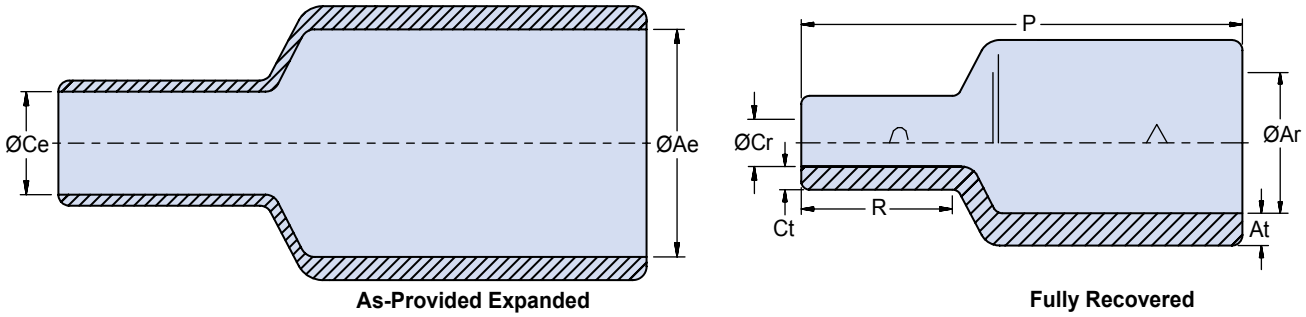


TABLE I: Boot Size and Shrink Boot Dimensions

Boot Size	Glenair US Part Marking (Engraved on Boot)	Ae Min Dia	Ar Max Dia	At ± 10%	Ce Min Dia	Cr Max Dia	Ct ± 10%	P ± 10%	R ± 10%
01	SF1	.370 (9.40)	.160 (4.06)	.040 (1.02)	.180 (4.57)	.045 (1.14)	.030 (0.76)	.533 (13.54)	.183 (4.65)
02	SF2	.370 (9.40)	.200 (5.08)	.045 (1.14)	.180 (4.57)	.065 (1.65)	.031 (0.79)	.568 (14.43)	.201 (5.11)
03	SF3	.560 (14.2)	.260 (6.60)	.050 (1.27)	.370 (9.40)	.100 (2.54)	.035 (0.89)	.600 (15.24)	.205 (5.21)

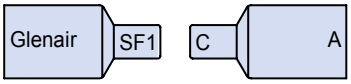
TABLE II: Glenair Series 77 Boots Adhesive Types

Attribute	W1 Standard High Temperature Hot Melt Adhesive	W2 Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 1, 2, 5, 6 and 7	Type 1, 2, 3 and 7	Type 1, 2, 5 and 6
Continuous Operating Temp.	-55° to +125°C	-40° to +80°C	-75° to +150°C
Resistance to Fuels, Oils & Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	Yes	Yes	Yes

TABLE III: Shrink Boot Materials

No.	Compound	Material Description
1	2025	High Performance Elastomer*
2	2010	Zero Halogen Polyolefin*

* Other Materials available



Boots are marked with manufacturer's identification and part number

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Accessories and Tools

770-031 Right Angle Heat Shrink Boot

Product Series and Basic Number	Angular Function	Material	Boot Size	Adhesive
770-031	A = 90°	1 = Table III	02 = Table I	W1 = See Table II; All Boots are Adhesive Lined (Standard is W1)

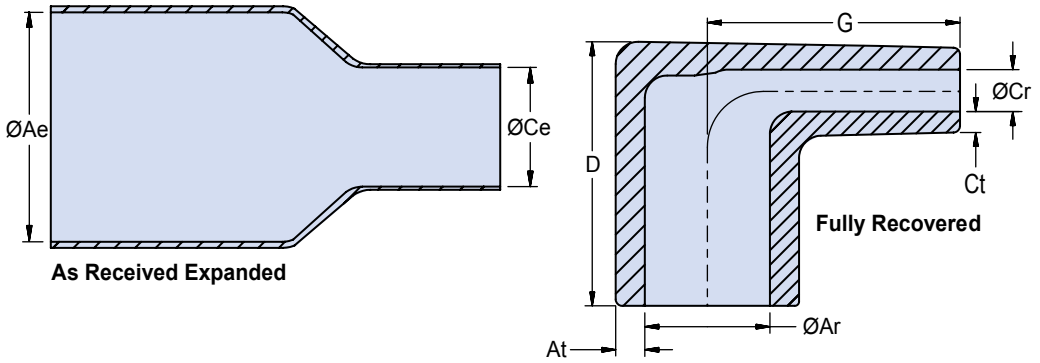


TABLE I: Boot Size and Shrink Boot Dimensions

Boot Size	Glenair US Part Marking (Engraved on Boot)	Ae Min Dia	Ar Max Dia	At ± 10%	Ce Min Dia	Cr Max Dia	Ct ± 10%	G ± 10%	D ± 10%
01	SF1A	.370 (9.40)	.160 (4.06)	.040 (1.02)	.180 (4.57)	.045 (1.14)	.030 (0.76)	.300 (7.62)	.380 (9.65)
02	SF2A	.370 (9.40)	.200 (5.08)	.045 (1.14)	.180 (4.57)	.065 (1.65)	.031 (0.79)	.375 (9.53)	.395 (10.0)
03	SF3A	.560 (14.2)	.260 (6.60)	.050 (1.27)	.370 (9.40)	.095 (2.41)	.035 (0.89)	.440 (11.20)	.469 (11.9)

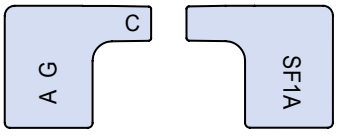
TABLE II: Glenair Series 77 Boots Adhesive Types

Attribute	W1 Standard High Temperature Hot Melt Adhesive	W2 Hot Melt Adhesive	R High Performance Epoxy Adhesive
Boot Material Compatibility	Type 1, 2, 5, 6 and 7	Type 1, 2, 3 and 7	Type 1, 2, 5 and 6
Continuous Operating Temp.	-55° to +125°C	-40° to +80°C	-75° to +150°C
Resistance to Fuels, Oils & Fluids	Good	Good	Excellent
Low Toxicity, Zero Halogen	Yes	Yes	Yes

TABLE III: Shrink Boot Materials

No.	Compound	Material Description
1	2025	High Performance Elastomer*
2	2010	Zero Halogen Polyolefin*

* Other Materials available



Boots are marked with manufacturer's identification and part number

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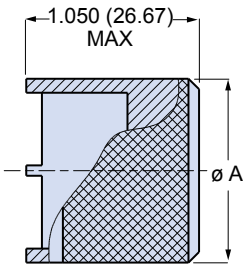
Accessories and Tools

600-192 Spanner Nut and 600-202 Spanner Tool

600-192 SPANNER NUT TIGHTENING TOOL

Spanner nut tool fits front panel mount or rear panel mount jam nuts. Heat-treated steel, nickel plated.



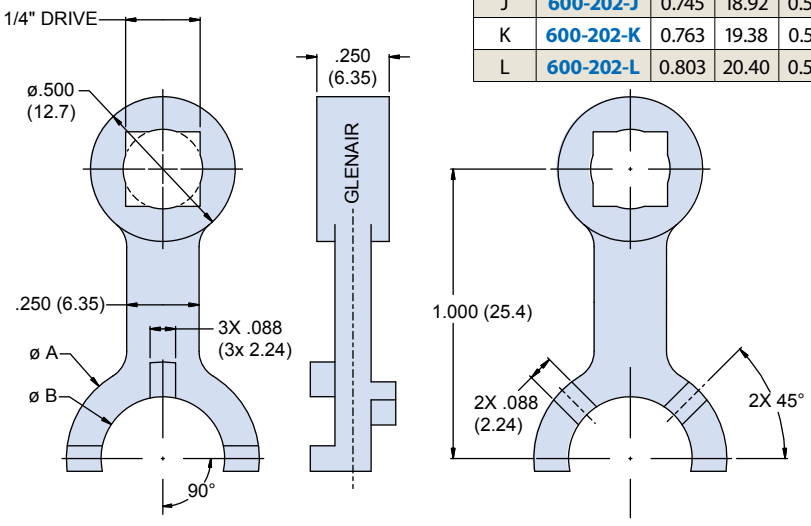


Shell Size	Spanner Tool Part Number	Ø A		Drive Square	Recommended Torque (In-Lbs.)	
		In.	mm.		Min	Max
B	600-192-B	.412	10.46	3/16"	8	13
C	600-192-C	.432	10.97	3/16"	13	18
D	600-192-D	.451	11.46	1/4"	13	18
E	600-192-E	.471	11.96	1/4"	13	18
F	600-192-F	.491	12.47	1/4"	16	21
G	600-192-G	.510	12.95	1/4"	16	21
H	600-192-H	.549	13.94	1/4"	20	25
J	600-192-J	.589	14.96	1/4"	20	25
K	600-192-K	.608	15.44	1/4"	20	25
L	600-192-L	.648	16.46	3/8"	23	28

600-202 SPANNER TOOL FOR FRONT PANEL MOUNT JAMNUT



Tool Size	Spanner Tool Part Number	Dimensions					Recommended Torque Value in Lbs	
		Ø A		Ø B		Jam Nut Thd Size Reference		
		In.	mm.	In.	mm.		Min	Max
B	600-202-B	0.572	14.53	0.332	8.43	M7.0	8	13
C	600-202-C	0.590	14.99	0.350	8.89	M7.5	13	18
D	600-202-D	0.610	15.49	0.370	9.40	M8.0	13	18
E	600-202-E	0.629	15.98	0.389	9.88	M8.5	13	18
F	600-202-F	0.647	16.43	0.407	10.34	M9.0	16	21
G	600-202-G	0.667	16.94	0.427	10.85	M9.5	16	21
H	600-202-H	0.705	17.91	0.465	11.81	M10.5	20	25
J	600-202-J	0.745	18.92	0.505	12.83	M11.5	20	25
K	600-202-K	0.763	19.38	0.523	13.28	M12.0	20	25
L	600-202-L	0.803	20.40	0.563	14.30	M13.0	23	28



Spanner nut tool fits front panel mount jam nuts. Alloy steel, nickel plated.

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601-108 Band-Master™ ATS Nano Banding Tool

601-108BAND-MASTER™ ATS NANO BANDING TOOL

Fast, cost-effective shield termination. Attach cable shields to SuperFly connectors with ***Band-Master™ ATS*** stainless steel straps. The ***Band-Master™ ATS*** system offers fast termination and the flexibility to handle a wide range of parts with just one band size. Approved for aerospace and defense, these straps have successfully passed rigorous shock, vibration and environmental testing.

1



1 The 601-108 Nano Band-Master™ ATS Tool weighs 1.18 lbs., and is designed for nano flat .075" width clamping bands (601-500, 601-504 and 601-508) in a tension range from 20 to 50 lbs. Calibrate at 50 lbs. ± 3 lbs. for most shield terminations. Tool and band should never be lubricated.

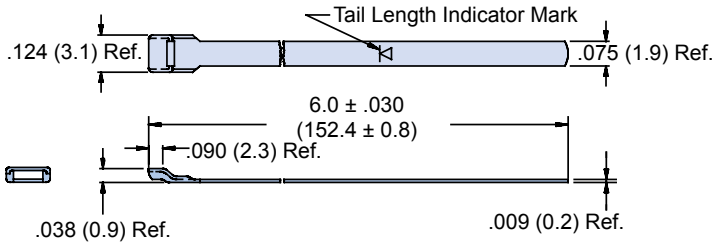
Figure	Description	Part Number
1	Nano Band Installation Tool	600-108

2



2 Short (6"), Medium (9") or Long (14") Nano Bands are provided flat or pre-coiled. Nano bands are designed for use with the 601-108 Band-Master™ ATS hand banding tool. Bands should always be double wrapped. Precision engineered from 300 Series SST.

Figure	Length		Part Number		Acommodates Diameter	
	in.	mm.	Flat	Pre-Coiled	in.	mm.
2	6.0	152.4	601-500	601-501	.60	15.2
	9.0	228.6	601-504	601-505	.94	23.9
	14.0	355.6	601-508	601-509	1.8	45.7



Contact Glenair or visit our website (glenair.com) to view our complete line of ***BAND-MASTER®*** products, including pneumatic tools for high volume production and calibration kits.

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SERIES 171

AlphaLink® SL Flex Jumpers

The easiest and fastest way to incorporate flexible circuit cabling in your high-performance application

Glenair AlphaLink® SL I/O-to-board jumper assemblies are cataloged according to I/O connector type. Glenair currently offers six families of AlphaLink® jumpers for Series 801 and 804 Mighty Mouse, Series 79 Micro-Crimp, MIL-DTL-83513 Micro-D, Series 89 Nanominiature circular and rectangular, and our ultraminiature Series 88 SuperFly®. Flex-to-board solutions available in each family are designed to optimize weight and package size reduction as well as maintain electrical performance equivalent with I/O connector performance*.



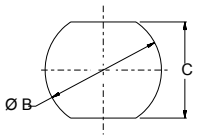
* Contacts mapped 1-to-1 from I/O to B/L connector (unused B/L contacts not connected). For alternative wire schedules, please consult factory.

- **Solderless connection allows fast yet rugged PC board mating**
- **Easy ordering of high-performance I/O connector-to-board flex jumpers**
- **Ideal for rapid prototyping**
- **Chemically etched, copper-clad polyimide flex circuits offer excellent temperature tolerance, dimensional stability, and reduced size and weight**
- **A high-availability, fast-turn catalog solution**
- **Designed for optimal electrical performance, including matched-impedance applications**
- **Superior electrical and mechanical performance compared to other cabling options**

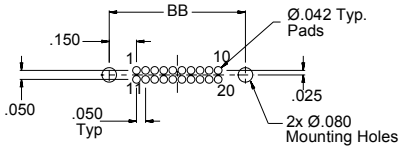
880-034 AND 881-021 DIMENSIONS

I/O Connector Dimensions						
Shell Size	Ø A		Ø B		C Flats	
	In	mm	In	mm	In	mm
A	0.372	9.45	0.265	6.73	0.222	5.64
B	0.392	9.96	0.283	7.19	0.241	6.12
C	0.412	10.46	0.305	7.75	0.261	6.63
D	0.432	10.97	0.324	8.23	0.281	7.14
E	0.451	11.46	0.344	8.74	0.300	7.62
F	0.471	11.96	0.364	9.25	0.320	8.13
G	0.490	12.45	0.383	9.73	0.340	8.64
H	0.530	13.46	0.419	10.64	0.379	9.63
J	0.569	14.45	0.459	11.66	0.418	10.62
K	0.589	14.96	0.478	12.14	0.438	11.13
L	0.628	15.95	0.518	13.16	0.478	12.14

B/L Connector Dimensions				
Layout	AA		BB	
	In	mm	In	mm
4	0.527	13.39	0.350	8.89
8	0.627	15.93	0.450	11.43
10	0.677	17.20	0.500	12.7
16	0.827	21.01	0.650	16.51
20	0.927	23.55	0.750	19.05
28	1.127	28.63	0.950	24.13
32	1.277	32.44	1.100	27.94
40	1.427	36.25	1.250	31.75



I/O Connector Recommended Cutout



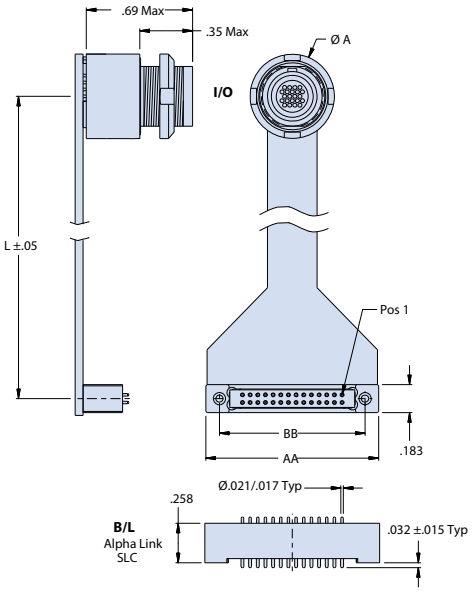
B/L Recommended PCB Layout

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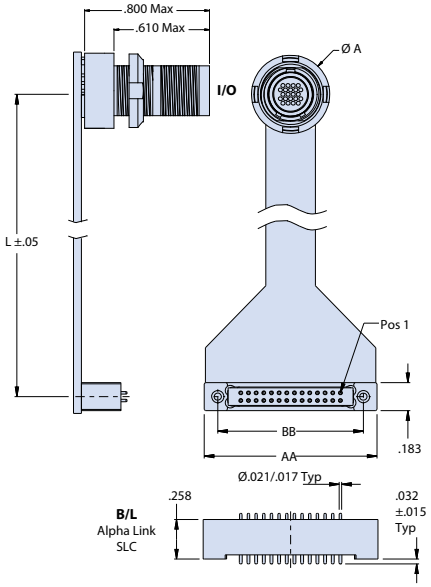
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SuperFly® to Alphalink™ Flex Jumpers

Recommended Connector Pairs



How To Order 880-034								
Sample Part Number	**880-034R**	**A**	**-B7N**	**-M**	**-2**	**T**	**-6**	**S**
Series	**880-034R** = Series 88 SuperFly QDC I/O receptacle to Series 171 AlphaLink® SL							
I/O Insert Configuration	**A** = Unshrouded contacts (e.g. Nano socket) **B** = Shrouded contacts (e.g. Nano TwistPin)							
I/O Shell Size / Insert Arrangement.[1]	**B7N, C10N, E19N, F22N, G31N, H37N, J44N** See section A all insert arrangements avail.							
I/O Shell Material/Finish	See Table I							
AlphaLink® Finish	**2** = Nickel **5** = Gold							
AlphaLink® Hardware Option	**T** = Threaded thru hole **Omit** for thru hole							
Assembly Length (L)	**3** = 3.00 ± .05 In **6** = 6.00 ± .05 In **12** = 12.00 ± .05 In							
Optional Shielding	**S** = With shielding **Omit** for none							



How To Order 880-034								
Sample Part Number	**881-021R**	**A**	**-B7N**	**-M**	**-2**	**T**	**-6**	**S**
Series	**881-021R** = Series 88 SuperFly QDC I/O receptacle to Series 171 AlphaLink® SL							
I/O Insert Configuration	**A** = Unshrouded contacts (e.g. Nano socket) **B** = Shrouded contacts (e.g. Nano TwistPin)							
I/O Shell Size / Insert Arrangement.[1]	**B7N, C10N, E19N, F22N, G31N, H37N, J44N** See section A all insert arrangements avail.							
I/O Shell Material/Finish	See Table I							
AlphaLink® Finish	**2** = Nickel **5** = Gold							
AlphaLink® Hardware Option	**T** = Threaded thru hole **Omit** = for thru hole							
Assembly Length (L)	**3** = 3.00 ± .05 In **6** = 6.00 ± .05 In **12** = 12.00 ± .05 In							
Optional Shielding	**S** = With shielding **Omit** for none							

RECOMMENDED SUPERFLY I/O TO ALPHALINK INSERT ARRANGEMENTS

To optimize the 40-contact AlphaLink board level connector, 40 contacts of a 44-contact size SuperFly connector can be used.

B7N	C10N	E19N	F22N	G31N	H37N	J44N
8 Contacts	10 Contacts	20 Contacts	28 Contacts	32 Contacts	40 Contacts	

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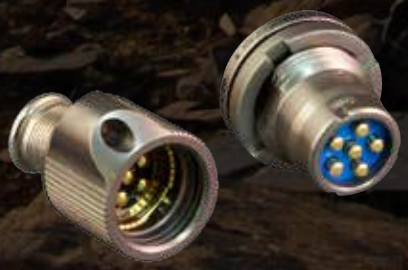
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The ultra harsh-environment unipole connector for audio, data, and power



SuperSeal™
RJ45 and USB connectors for harsh environmental applications



Mighty Mouse 824
The high-performance locking push-pull connector for tactical soldier applications



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Advanced-performance audio frequency JTRS radio connectors and cables



Mighty Mouse Cobra
The compact EMI/RFI plug assembly for low-profile, reduced space applications



Turnkey Cable Assemblies
All Glenair connector technologies are available wired, tested and ready for immediate use

U.S. Army photo by Staff Sgt. Adam Mancini

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