



SOLARIS, RECTANGULAR CONNECTORS

Small, lightweight, sealed, low-cost, rugged rectangular solutions.



Overview

Solaris is a small, plastic, easy-to-use rectangular connector designed specifically for low and medium power applications. Solaris' spring-loaded slide lock mechanism is a snap to use - simply push to lock, and slide to unlock. The slide lock provides convenient single handed & tool-less mating, eliminating the Foreign Object Debris (FOD) found in typical screw mount D-Subs. Each housing has raised finger ridges for a sure grip, and a built-in cable tie access hole provides a "zero footprint" method to secure the connector to a bulkhead or cable bundle.

High grade Polyetherimide plastic makes SOLARIS suitable for man/machine interfaces with high mating cycles, and provides a wide operating temperature range. Ultrasonically welded components means void free joints, sealing out humidity for long lasting, crack free operation over the life of the installation. Interfacial seal and wire seal grommets provide IP67 sealing, meaning your application is free from dust, moisture and corrosion when exposed to the real world.

Features & Benefits

Low profile rectangular form factor	Less than 0.5" tall. Fits into seat arms, backs, tray tables and compartments, lower profile ceiling/side panels. Blind mate keying
Interfacial and Wire sealing	Environmental sealing to IP67. Wet, damp, and dusty applications
Testing (See Solaris Catalog for details)	Shock and Vibration Fluid Immersion / Chemical resistance Altitude Immersion Testing to 75,000 feet Flammability: UL94 Temperature range: -65°C to 150°C
Polyetherimide Housings (Ultem)	Wide operating range, chemical resistance, & high mating cycles: 500+
Reverse gender capability	Plugs & Receptacles may be configured with pins or sockets, allowing live power connector to be either plug or receptacle, depending on application requirements
Standard contacts	AS39029 MIL Spec contacts for broad application compatibility. Stamped & Formed available as lower cost option. Industry standard tools.
Slide Latch	Easy-to-use, FOD free, tool-less mating
Integrated Tie Wrap hole	Zero footprint tie down to pipes, bundles, and bulkheads
Integral boot ridge	Integrated feature for tying off protective sheathing and braids w/o adding backshells or saddle clamps
Multiple Configurations	Inline, Square Flange
Snap-on strain relief	Tool-less, FOD free accessory that helps prevent wear and tear at cable / connector ingress
Scoop-Proof	Prevents contacts from being bent or electrically shorted during mating

LUMINUS, PEGASUS & SOLARIS CONNECTOR QUICK COMPARISON

Luminus	Pegasus	Solaris
Circular	Circular	Rectangular
None	EMI/RFI shielding	None
Nylon and Ultem	Ultem	Ultem
Shock (Luminus & Pegasus: 300G, 3msec, Half-Sine)		
(Solaris: 100G sawtooth, 6msec)		
Vibration (Luminus & Pegasus: 30G Sinusoidal; 43.96G Random)		
(Solaris: 15G peak sinusoidal, 16G peak random)		

Materials & Specifications

Item	Specification	Test Method
Materials	Insulator Body Coupling Nut Grommet & Face Seal Contact Retainer Contacts	Ultem 2100 Nylon PA66 per A-A-59588 per M39029/58, /57
Temperature Range	-65°C to 175°C	Mil-Std-1322 Method 1003, Condition A
Temperature Life	500 hours @ 85C	EIA-364, Test procedure 17B
Insulation Resistance	5000 M Min. @ 500 VDC	Mil-Std-1344, Method 3003 EIA-364, Test Procedure 20D
Dielectric Withstanding	1500 VAC, 60Hz @ Sea Level, 5ma 300 VAC, 60 Hz @70,000 ft, 2ma	Mil-Stf-1344, Mthod 3001 EIA-364, test Procedure 20D
Durability	500 mating cycles minimum 1000 typical	EIA-364 Test Procedure 09C
Altitude Immersion	5% salt solution, 75K feet	Mil-Std-1344, Method 1004; M81714, paragraph 4.6.21
Temperature Cycling	Five 1 hour cycles" -65°C to 125°C	Mil-Std-1344, Method 1003, Test Condition A EIA-364, Test Procedure 32E
Vibration	30G Sinusoidal 43.96G Random	Mil-Dtl-38999L, Paragraph 4.5.23.2.2 EIA-364-38E, test Condition IV; Test Condition VI-J
Shock	300G, 3msec, Half-Sine	Per EIA-364-27B, Test Condition D
Salt Spray	5% Salt Spray @ 95°C for 48 Hours	Mil-Std1344, Method 1001, test Condition B EAI-364, test Procedure 26B
Humidity	10 days @ 25°C to 65°C 90% - 95% RH	Mil-Std-1344, Method 1002.2 EIA-364, test Procedure 31C
Seal Rating	1P67	Mated
Fluid Immersion	Lubricating Oil per Mil-Prf-7808 Cleaning compound per Mil-Prf-87937 Isopropyl Alcohol & Mineral Spirit Solution Skydrol Hydrualic Fluid Hydrualic Fluidper Mil-Prf-83282 Mil-Prf-87257 Ethylene & Propylene Glycol Avaition Jet A	EIA-364 Test Procedure 10D Mil-Std-1344A
Flammability	UL94,V0 DOTG section 26.6.2 & 26.6.3 FAR 25.853(a)	Meets FAR Part 25 Appendix F, Part 1
RoHS & REACH	Yes	-
Insertions & Removal Force	less than 10 lbs. insert (size 22) less than 10 lbs. insert (size 20) less than 15 lbs. insert (size 16)	EIA-364, Test Procedure 5B Mil-Std-1344 EIA-364, Test Procedure 37C
Contact Retention	10 lbs. minimum, size 22 20 lbs. minimum, size 20 25 lbs. minimum, size 16	EIA-364, Test Procedure 29C Mil-Std-1344, Method 2007

Applications

- Aerospace Lighting
- In-Flight Entertainment
- Power & Signal Distribution
- Cabin Service Systems
- Military Aerospace- Rotocraft
- UAV's



Standard Configurations*

	SQR	X	XX	X	X	X
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Series Prefix

Number of Contacts

2

3

4

6

8

9

C=12

Contact Size (AWG)

16: Size 16

20: Size 20

22: Size 22

Shell Type

1: Plug

2: Receptacle

5: Front Mount Flange Receptacle

7: Rear Mount Flange Receptacle

Keying

0: A Keying Pins (Black)

1: B Keying Pins (Green)

2: C Keying Pins (White)

5: A Keying Sockets (Black)

6: B Keying Sockets (Green)

7: C Keying Sockets (White)

With / Without Contacts

0: Without contacts

1: With crimp contacts

2: With straight PCB contacts

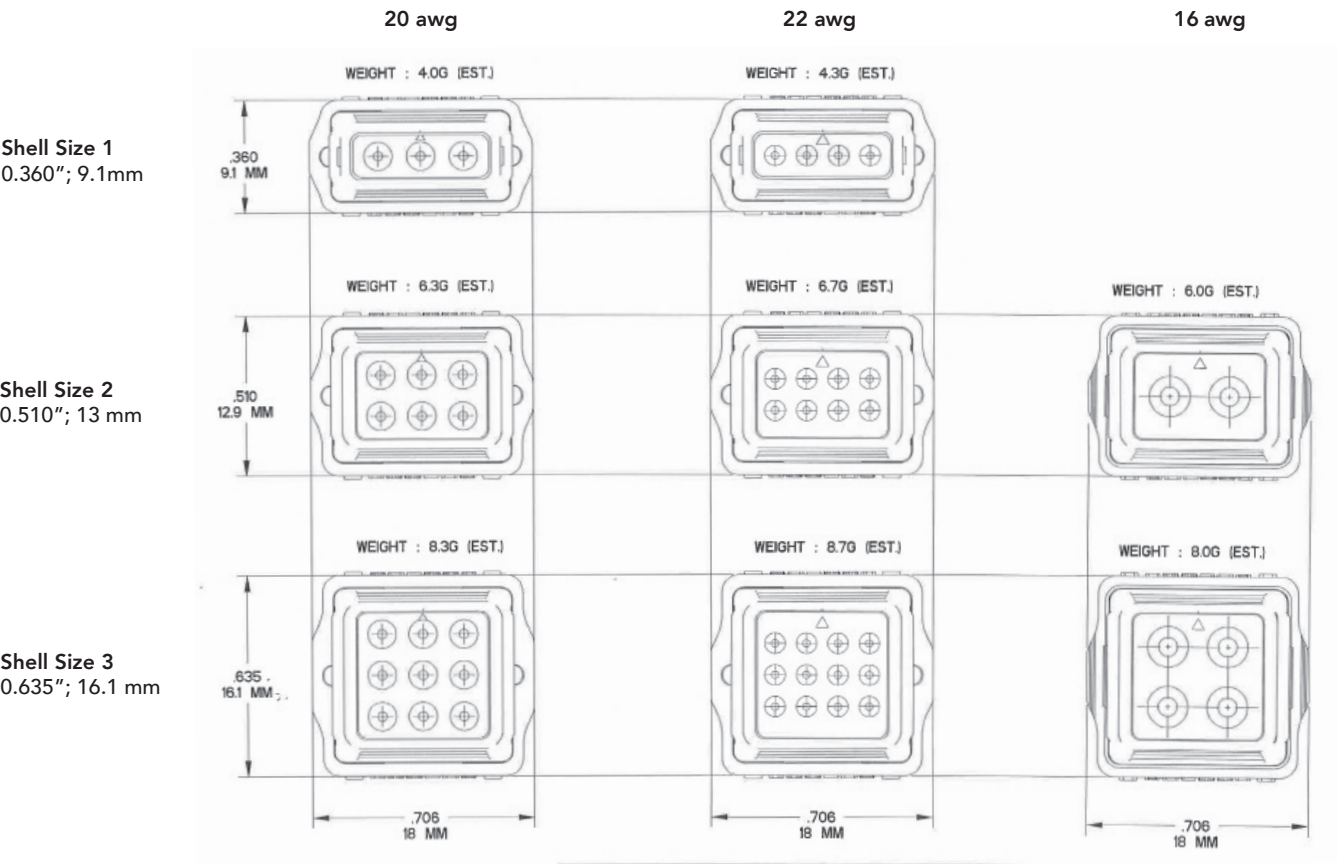
3: With R/A PCB contacts

*Note: Use this part builder with the Configuration & Pin Count table on pg. 5

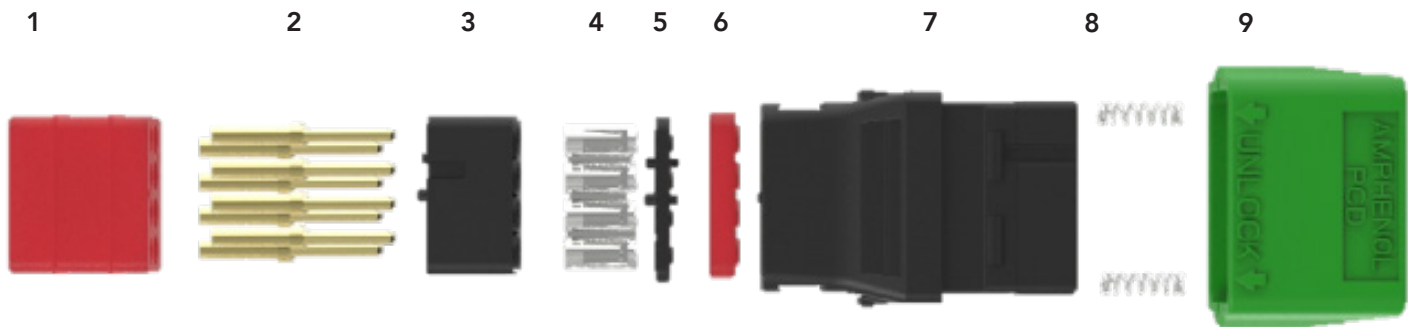
Example Configurations

- SQR620100: 6 contacts., 20 awg., Plug, A Keying Sockets (Black), without contacts
- SQR620202: 6 contacts., 20 awg., Receptacle, A Keying Sockets (Black), with straight PCB contacts
- SQR620150: 6 contacts., 20 awg., Plug, A Keying Sockets (Black), without contacts (reverse Gender)
- SQRC22503: 12 contacts., 22 awg., Front Mount Flange, A Keying Sockets (Black), without contacts

Configuration & Pin Count



Construction & Materials



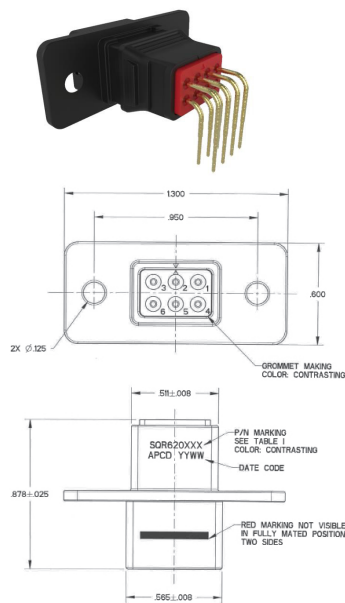
Items 3, 5, and 7 ultrasonically welded, ensure no gaps or voids.

Items 1 and 6 are bonded with heat cured epoxy for long-lasting, peel-free operation.

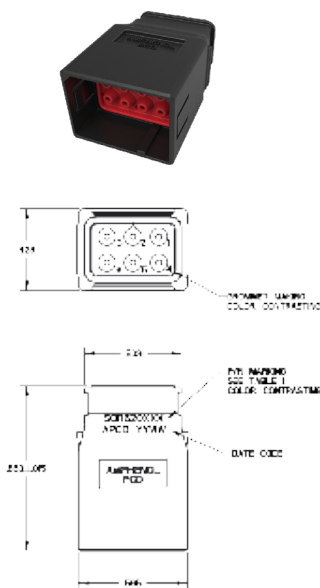
Plug shown.

1	Wire Seal Grommet Silicone Rubber, Red, per A-A-59588
2	M39029 style Pins or Sockets
3	Clip Housing, Polyetherimide, ULTEM
4	Retainer Clip, Stainless Steel 301
5	Cap Housing, Polyetherimide, ULTEM
6	Face Seal, Silicone Rubber, Red, per A-A-59588
7	Housing, Polyetherimide, ULTEM
8	Stainless Steel springs
9	Coupling Nut, PA66 Nylon

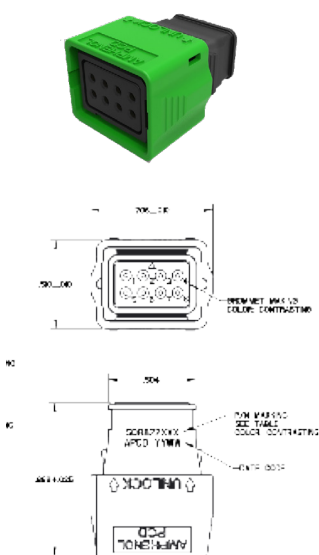
Front Flange Mount
Shell size 2



Receptacle
Shell size 2



Plug
Shell size 2

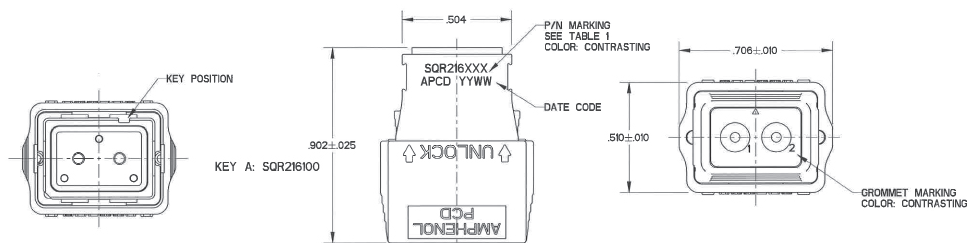


Index

Type	Page
Plug	7
Receptacle	15
Front Mount Flange	23
Rear Mount Flange	31
Contacts & Tooling	39

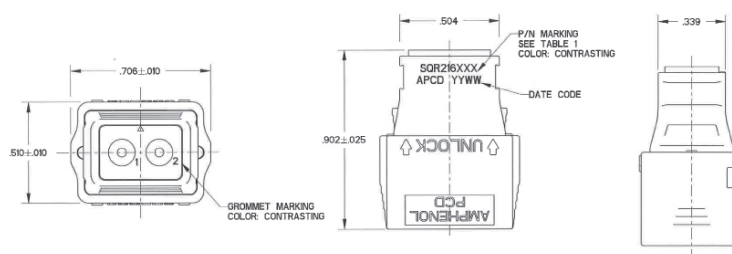
2 Position, Size 16 Plug w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR216100	None	2	A	Black	SQR216100	SQR216250 SQR216550 SQR216750
SQR216101	Crimp					
SQR216102	Straight PCB					
SQR216103	R/A PCB					
SQR216110	None		B	Green	SQR216110	SQR216260 SQR216560 SQR216760
SQR216111	Crimp					
SQR216112	Straight PCB					
SQR216113	R/A PCB					
SQR216120	None		C	White	SQR216120	SQR216270 SQR216570 SQR216770
SQR216121	Crimp					
SQR216122	Straight PCB					
SQR216123	R/A PCB					



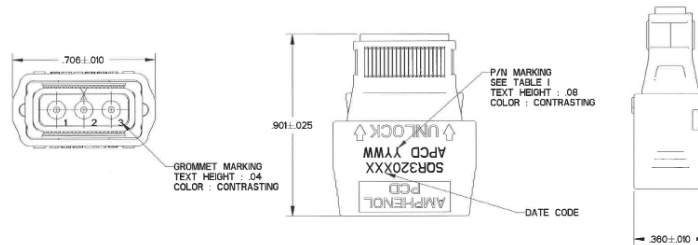
2 Position, Size 16 Plug w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR216150	None	2	A	Black	SQR216150	SQR216200 SQR216500 SQR216700
SQR216151	Crimp					
SQR216152	Straight PCB					
SQR216153	R/A PCB					
SQR216160	None		B	Green	SQR216160	SQR216210 SQR216510 SQR216710
SQR216161	Crimp					
SQR216162	Straight PCB					
SQR216163	R/A PCB					
SQR216170	None		C	White	SQR216170	SQR216220 SQR216520 SQR216720
SQR216171	Crimp					
SQR216172	Straight PCB					
SQR216173	R/A PCB					



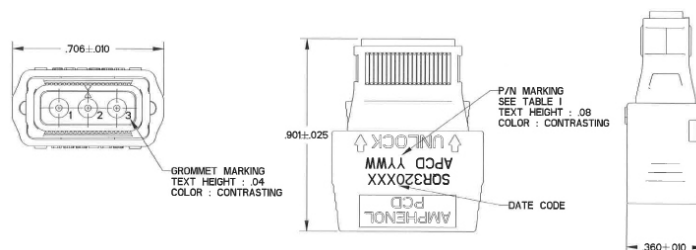
3 Position, Size 20 Plug w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR320100	None	1	A	Black	SQR320100	SQR320250 SQR320550 SQR320750
SQR320101	Crimp					
SQR320102	Straight PCB					
SQR320103	R/A PCB					
SQR320110	None		B	Green	SQR320110	SQR320260 SQR320560 SQR320760
SQR320111	Crimp					
SQR320112	Straight PCB					
SQR320113	R/A PCB					
SQR320120	None		C	White	SQR320120	SQR320270 SQR320570 SQR320770
SQR320121	Crimp					
SQR320122	Straight PCB					
SQR320123	R/A PCB					



3 Position, Size 20 Plug w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR320150	None	1	A	Black	SQR320150	SQR320200 SQR320500 SQR320700
SQR320151	Crimp					
SQR320152	Straight PCB					
SQR320153	R/A PCB					
SQR320160	None		B	Green	SQR320150	SQR320210 SQR320510 SQR320710
SQR320161	Crimp					
SQR320162	Straight PCB					
SQR320163	R/A PCB					
SQR320170	None		C	White	SQR320150	SQR320220 SQR320520 SQR320720
SQR320171	Crimp					
SQR320172	Straight PCB					
SQR320173	R/A PCB					



4 Position, Size 16 Plug w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR416100	None	3	A	Black	SQR416100	SQR416250 SQR416550 SQR416750
SQR416101	Crimp					
SQR416102	Straight PCB					
SQR416103	R/A PCB					
SQR416110	None		B	Green	SQR416110	SQR416260 SQR416560 SQR416760
SQR416111	Crimp					
SQR416112	Straight PCB					
SQR416113	R/A PCB					
SQR416120	None		C	White	SQR416120	SQR416270 SQR416570 SQR416770
SQR416121	Crimp					
SQR416122	Straight PCB					
SQR416123	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

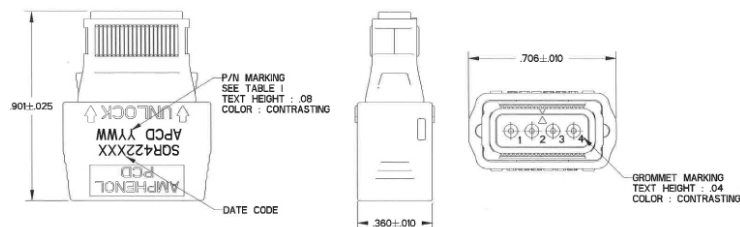
4 Position, Size 16 Plug w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR416150	None	3	A	Black	SQR416150	SQR416200 SQR416500 SQR416700
SQR416151	Crimp					
SQR416152	Straight PCB					
SQR416153	R/A PCB					
SQR416160	None		B	Green	SQR416160	SQR416210 SQR416510 SQR416710
SQR416161	Crimp					
SQR416162	Straight PCB					
SQR416163	R/A PCB					
SQR416170	None		C	White	SQR416170	SQR416220 SQR416520 SQR416720
SQR416171	Crimp					
SQR416172	Straight PCB					
SQR416173	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

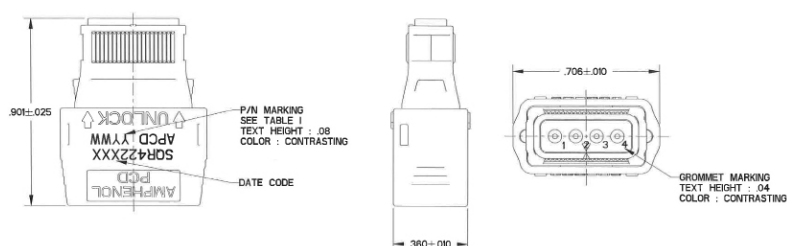
4 Position, Size 22 Plug w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR422100	None	1	A	Black	SQR422100	SQR422250 SQR422550 SQR422750
SQR422101	Crimp					
SQR422102	Straight PCB					
SQR422103	R/A PCB					
SQR422110	None		B	Green	SQR422110	SQR422260 SQR422560 SQR422760
SQR422111	Crimp					
SQR422112	Straight PCB					
SQR422113	R/A PCB					
SQR422120	None		C	White	SQR422120	SQR422270 SQR422570 SQR422770
SQR422121	Crimp					
SQR422122	Straight PCB					
SQR422123	R/A PCB					



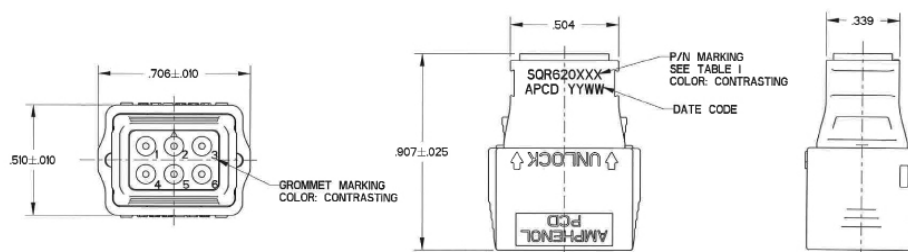
4 Position, Size 22 Plug w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR422150	None	1	A	Black	SQR422150	SQR422200 SQR422500 SQR422700
SQR422151	Crimp					
SQR422152	Straight PCB					
SQR422153	R/A PCB					
SQR422160	None		B	Green	SQR422160	SQR422210 SQR422510 SQR422710
SQR422161	Crimp					
SQR422162	Straight PCB					
SQR422163	R/A PCB					
SQR422170	None		C	White	SQR422170	SQR422220 SQR422520 SQR422720
SQR422171	Crimp					
SQR422172	Straight PCB					
SQR422173	R/A PCB					



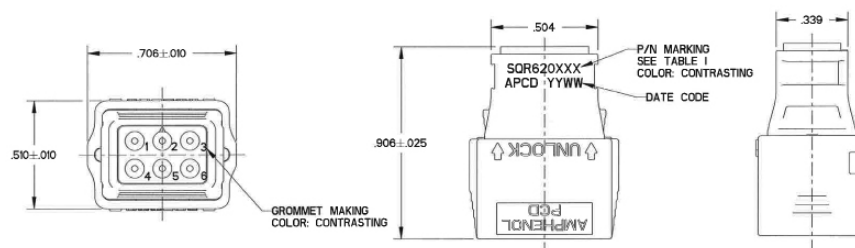
6 Position, Size 20 Plug w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR620100	None	2	A	Black	SQR620100	SQR620250 SQR620550 SQR620750
SQR620101	Crimp					
SQR620102	Straight PCB					
SQR620103	R/A PCB					
SQR620110	None		B	Green	SQR620110	SQR620260 SQR620560 SQR620760
SQR620111	Crimp					
SQR620112	Straight PCB					
SQR620113	R/A PCB					
SQR620120	None		C	White	SQR620120	SQR620270 SQR620570 SQR620770
SQR620121	Crimp					
SQR620122	Straight PCB					
SQR620123	R/A PCB					



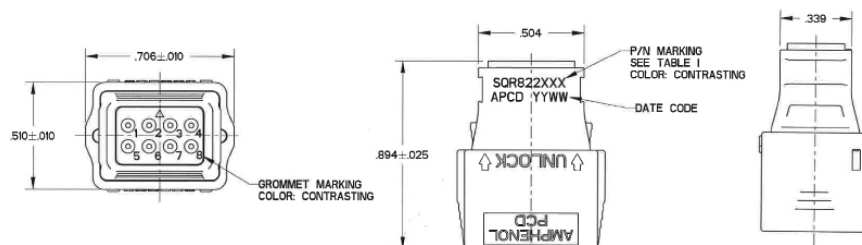
6 Position, Size 20 Plug w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR620150	None	2	A	Black	SQR620150	SQR620200 SQR620500 SQR620700
SQR620151	Crimp					
SQR620152	Straight PCB					
SQR620153	R/A PCB					
SQR620160	None		B	Green	SQR620160	SQR620210 SQR620510 SQR620710
SQR620161	Crimp					
SQR620162	Straight PCB					
SQR620163	R/A PCB					
SQR620170	None		C	White	SQR620170	SQR620220 SQR620520 SQR620720
SQR620171	Crimp					
SQR620172	Straight PCB					
SQR620173	R/A PCB					



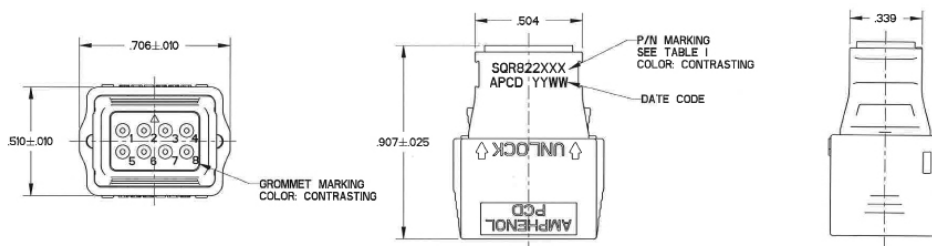
8 Position, Size 22 Plug w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR822100	None	2	A	Black	SQR822100	SQR822250 SQR822550 SQR822750
SQR822101	Crimp					
SQR822102	Straight PCB					
SQR822103	R/A PCB					
SQR822110	None		B	Green	SQR822110	SQR822260 SQR822560 SQR822760
SQR822111	Crimp					
SQR822112	Straight PCB					
SQR822113	R/A PCB					
SQR822120	None		C	White	SQR822120	SQR822270 SQR822570 SQR822770
SQR822121	Crimp					
SQR822122	Straight PCB					
SQR822123	R/A PCB					



8 Position, Size 22 Plug w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR822150	None	2	A	Black	SQR822150	SQR822200 SQR822500 SQR822700
SQR822151	Crimp					
SQR822152	Straight PCB					
SQR822153	R/A PCB					
SQR822160	None		B	Green	SQR822160	SQR822210 SQR822510 SQR822710
SQR822161	Crimp					
SQR822162	Straight PCB					
SQR822163	R/A PCB					
SQR822170	None		C	White	SQR822170	SQR822220 SQR822520 SQR822720
SQR822171	Crimp					
SQR822172	Straight PCB					
SQR822173	R/A PCB					



9 Position, Size 20 Plug w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR920100	None	3	A	Black	SQR920100	SQR920250 SQR920550 SQR920750
SQR920101	Crimp					
SQR920102	Straight PCB					
SQR920103	R/A PCB					
SQR920110	None		B	Green	SQR920110	SQR920260 SQR920560 SQR920760
SQR920111	Crimp					
SQR920112	Straight PCB					
SQR920113	R/A PCB					
SQR920120	None		C	White	SQR920120	SQR920270 SQR920570 SQR920770
SQR920121	Crimp					
SQR920122	Straight PCB					
SQR920123	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

9 Position, Size 20 Plug w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR920150	None	3	A	Black	SQR920150	SQR920200 SQR920500 SQR920700
SQR920151	Crimp					
SQR920152	Straight PCB					
SQR920153	R/A PCB					
SQR920160	None		B	Green	SQR920160	SQR920210 SQR920510 SQR920710
SQR920161	Crimp					
SQR920162	Straight PCB					
SQR920163	R/A PCB					
SQR920170	None		C	White	SQR920170	SQR920220 SQR920520 SQR920720
SQR920171	Crimp					
SQR920172	Straight PCB					
SQR920173	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

12 Position, Size 22 Plug w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQRC22100	None	3	A	Black	SQRC22100	SQRC22250 SQRC22550 SQRC22750
SQRC22101	Crimp					
SQRC22102	Straight PCB					
SQRC22103	R/A PCB					
SQRC22110	None		B	Green	SQRC22110	SQRC22260 SQRC22560 SQRC22760
SQRC22111	Crimp					
SQRC22112	Straight PCB					
SQRC22113	R/A PCB					
SQRC22120	None		C	White	SQRC22120	SQRC22270 SQRC22570 SQRC22770
SQRC22121	Crimp					
SQRC22122	Straight PCB					
SQRC22123	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

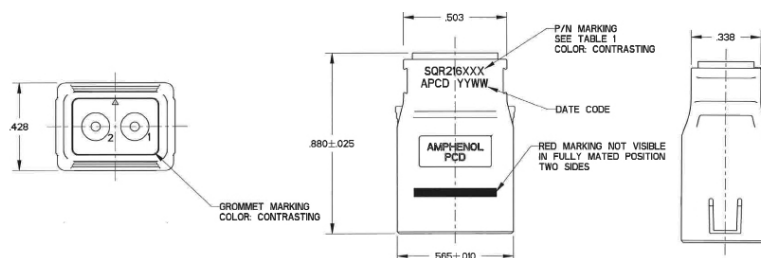
12 Position, Size 22 Plug w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQRC22150	None	3	A	Black	SQRC22150	SQRC22200 SQRC22500 SQRC22700
SQRC22151	Crimp					
SQRC22152	Straight PCB					
SQRC22153	R/A PCB					
SQRC22160	None		B	Green	SQRC22160	SQRC22210 SQRC22510 SQRC22710
SQRC22161	Crimp					
SQRC22162	Straight PCB					
SQRC22163	R/A PCB					
SQRC22170	None		C	White	SQRC22170	SQRC22220 SQRC22520 SQRC22720
SQRC22171	Crimp					
SQRC22172	Straight PCB					
SQRC22173	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

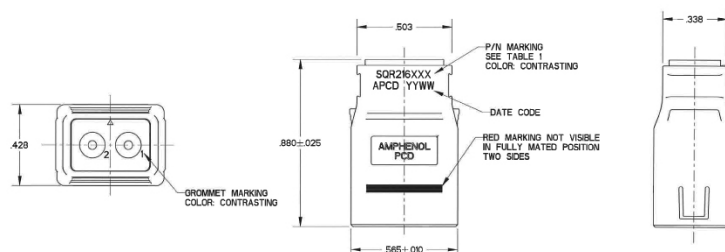
2 Position, Size 16 Receptacle w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR216200	None	2	A	Black	SQR216200	SQR216150
SQR216201	Crimp					
SQR216202	Straight PCB					
SQR216203	R/A PCB					
SQR216210	None		B	Green	SQR216210	SQR216160
SQR216211	Crimp					
SQR216212	Straight PCB					
SQR216213	R/A PCB					
SQR216220	None		C	White	SQR216220	SQR216170
SQR216221	Crimp					
SQR216222	Straight PCB					
SQR216223	R/A PCB					



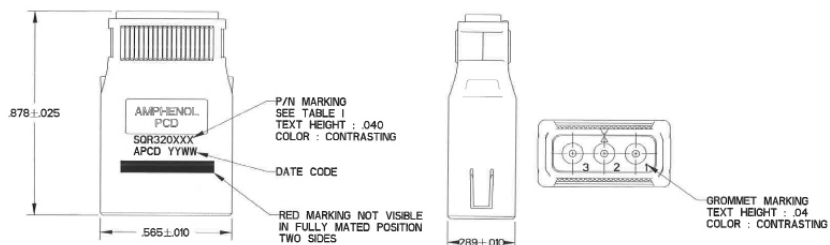
2 Position, Size 16 Receptacle w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR216250	None	2	A	Black	SQR216250	SQR216100
SQR216251	Crimp					
SQR216252	Straight PCB					
SQR216253	R/A PCB					
SQR216260	None		B	Green	SQR216260	SQR216110
SQR216261	Crimp					
SQR216262	Straight PCB					
SQR216263	R/A PCB					
SQR216270	None		C	White	SQR216270	SQR216120
SQR216271	Crimp					
SQR216272	Straight PCB					
SQR216273	R/A PCB					



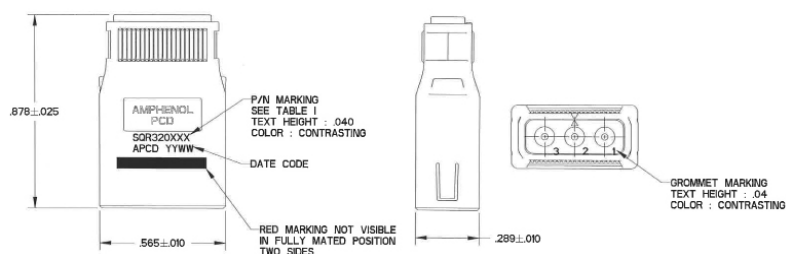
3 Position, Size 20 Receptacle w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR320200	None	1	A	Black	SQR320200	SQR320150
SQR320201	Crimp					
SQR320202	Straight PCB					
SQR320203	R/A PCB					
SQR320210	None		B	Green	SQR320210	SQR320160
SQR320211	Crimp					
SQR320212	Straight PCB					
SQR320213	R/A PCB					
SQR320220	None		C	White	SQR320220	SQR320170
SQR320221	Crimp					
SQR320222	Straight PCB					
SQR320223	R/A PCB					



3 Position, Size 20 Receptacle w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR320250	None	1	A	Black	SQR320250	SQR320100
SQR320251	Crimp					
SQR320252	Straight PCB					
SQR320253	R/A PCB					
SQR320260	None		B	Green	SQR320260	SQR320110
SQR320261	Crimp					
SQR320262	Straight PCB					
SQR320263	R/A PCB					
SQR320270	None		C	White	SQR320270	SQR320120
SQR320271	Crimp					
SQR320272	Straight PCB					
SQR320273	R/A PCB					



4 Position, Size 16 Receptacle w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR416200	None	3	A	Black	SQR416200	SQR416150
SQR416201	Crimp					
SQR416202	Straight PCB					
SQR416203	R/A PCB					
SQR416210	None		B	Green	SQR416210	SQR416160
SQR416211	Crimp					
SQR416212	Straight PCB					
SQR416213	R/A PCB					
SQR416220	None		C	White	SQR416220	SQR416170
SQR416221	Crimp					
SQR416222	Straight PCB					
SQR416223	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

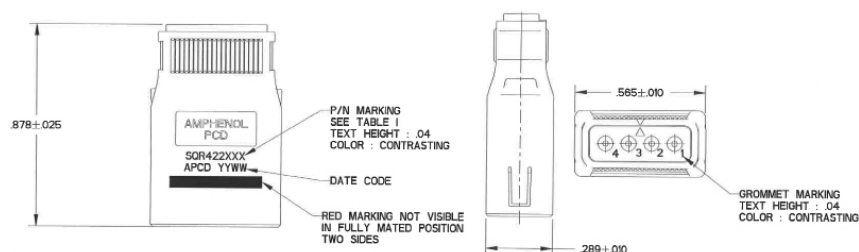
4 Position, Size 16 Receptacle w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR416250	None	3	A	Black	SQR416250	SQR416100
SQR416251	Crimp					
SQR416252	Straight PCB					
SQR416253	R/A PCB					
SQR416260	None		B	Green	SQR416260	SQR416110
SQR416261	Crimp					
SQR416262	Straight PCB					
SQR416263	R/A PCB					
SQR416270	None		C	White	SQR416270	SQR416120
SQR416271	Crimp					
SQR416272	Straight PCB					
SQR416273	R/A PCB					

*Shell Size 3 Drawings: Please contact marketing

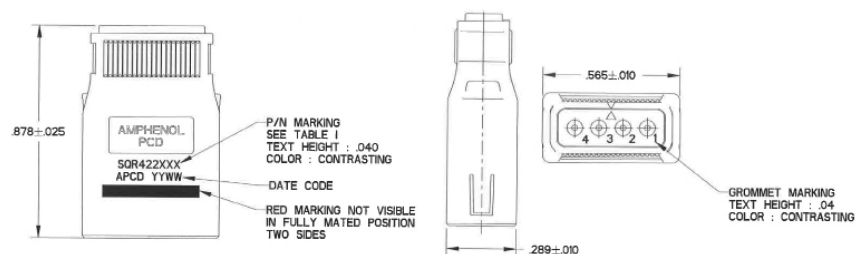
4 Position, Size 22 Receptacle w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR422200	None	1	A	Black	SQR422200	SQR422150
SQR422201	Crimp					
SQR422202	Straight PCB					
SQR422203	R/A PCB					
SQR422210	None		B	Green	SQR422210	SQR422160
SQR422211	Crimp					
SQR422212	Straight PCB					
SQR422213	R/A PCB					
SQR422220	None		C	White	SQR422220	SQR422170
SQR422221	Crimp					
SQR422222	Straight PCB					
SQR422223	R/A PCB					



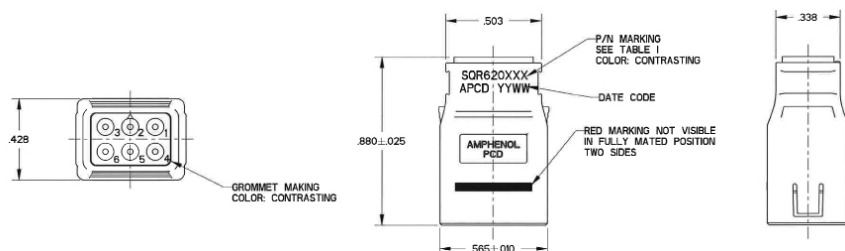
4 Position, Size 22 Receptacle w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR422250	None	1	A	Black	SQR422250	SQR422100
SQR422251	Crimp					
SQR422252	Straight PCB					
SQR422253	R/A PCB					
SQR422260	None		B	Green	SQR422260	SQR422110
SQR422261	Crimp					
SQR422262	Straight PCB					
SQR422263	R/A PCB					
SQR422270	None		C	White	SQR422270	SQR422120
SQR422271	Crimp					
SQR422272	Straight PCB					
SQR422273	R/A PCB					



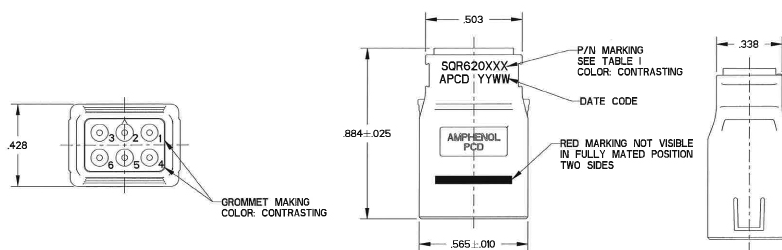
6 Position, Size 20 Receptacle w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR620200	None	2	A	Black	SQR620200	SQR620150
SQR620201	Crimp					
SQR620202	Straight PCB					
SQR620203	R/A PCB					
SQR620210	None		B	Green	SQR620210	SQR620160
SQR620211	Crimp					
SQR620212	Straight PCB					
SQR620213	R/A PCB					
SQR620220	None		C	White	SQR620220	SQR620170
SQR620221	Crimp					
SQR620222	Straight PCB					
SQR620223	R/A PCB					



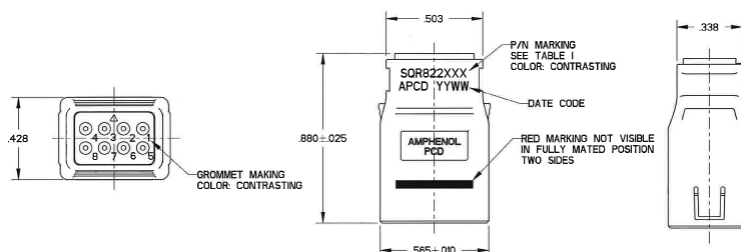
6 Position, Size 20 Receptacle w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR620250	None	2	A	Black	SQR620250	SQR620100
SQR620251	Crimp					
SQR620252	Straight PCB					
SQR620253	R/A PCB					
SQR620260	None		B	Green	SQR620260	SQR620110
SQR620261	Crimp					
SQR620262	Straight PCB					
SQR620263	R/A PCB					
SQR620270	None		C	White	SQR620270	SQR620120
SQR620271	Crimp					
SQR620272	Straight PCB					
SQR620273	R/A PCB					



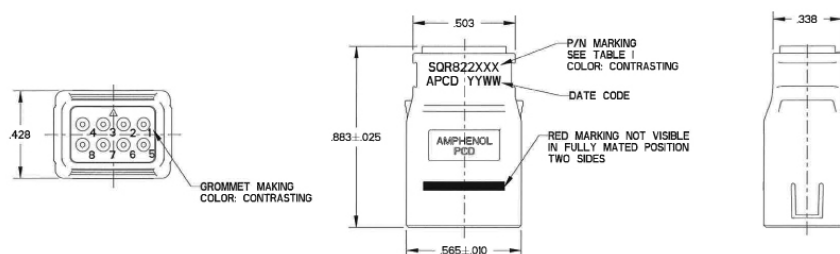
8 Position, Size 22 Receptacle w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR822200	None	2	A	Black	SQR822200	SQR822150
SQR822201	Crimp					
SQR822202	Straight PCB					
SQR822203	R/A PCB					
SQR822210	None		B	Green	SQR822210	SQR822160
SQR822211	Crimp					
SQR822212	Straight PCB					
SQR822213	R/A PCB					
SQR822220	None		C	White	SQR822220	SQR822170
SQR822221	Crimp					
SQR822222	Straight PCB					
SQR822223	R/A PCB					



8 Position, Size 22 Receptacle w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR822250	None	2	A	Black	SQR822250	SQR822100
SQR822251	Crimp					
SQR822252	Straight PCB					
SQR822253	R/A PCB					
SQR822260	None		B	Green	SQR822260	SQR822110
SQR822261	Crimp					
SQR822262	Straight PCB					
SQR822263	R/A PCB					
SQR822270	None		C	White	SQR822270	SQR822120
SQR822271	Crimp					
SQR822272	Straight PCB					
SQR822273	R/A PCB					



9 Position, Size 20 Receptacle w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR920200	None	3	A	Black	SQR920200	SQR920150
SQR920201	Crimp					
SQR920202	Straight PCB					
SQR920203	R/A PCB					
SQR920210	None		B	Green	SQR920210	SQR920160
SQR920211	Crimp					
SQR920212	Straight PCB					
SQR920213	R/A PCB					
SQR920220	None		C	White	SQR920220	SQR920170
SQR920221	Crimp					
SQR920222	Straight PCB					
SQR920223	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

9 Position, Size 20 Receptacle w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR920250	None	3	A	Black	SQR920250	SQR920100
SQR920251	Crimp					
SQR920252	Straight PCB					
SQR920253	R/A PCB					
SQR920260	None		B	Green	SQR920260	SQR920110
SQR920261	Crimp					
SQR920262	Straight PCB					
SQR920263	R/A PCB					
SQR920270	None		C	White	SQR920270	SQR920120
SQR920271	Crimp					
SQR920272	Straight PCB					
SQR920273	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

12 Position, Size 22 Receptacle w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQRC22200	None	3	A	Black	SQRC22200	SQRC22150
SQRC22201	Crimp					
SQRC22202	Straight PCB					
SQRC22203	R/A PCB					
SQRC22210	None		B	Green	SQRC22210	SQRC22160
SQRC22211	Crimp					
SQRC22212	Straight PCB					
SQRC22213	R/A PCB					
SQRC22220	None		C	White	SQRC22220	SQRC22170
SQRC22221	Crimp					
SQRC22222	Straight PCB					
SQRC22223	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

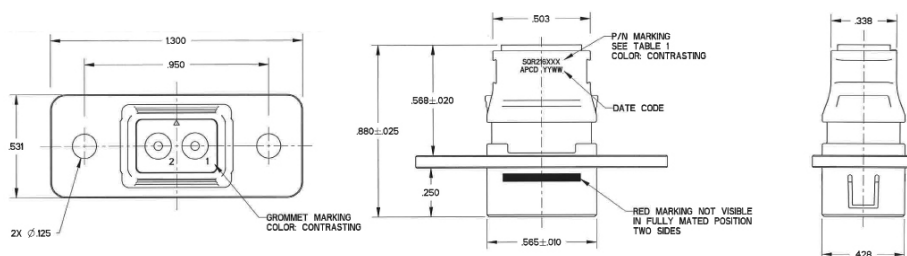
12 Position, Size 22 Receptacle w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQRC22250	None	3	A	Black	SQRC22250	SQRC22100
SQRC22251	Crimp					
SQRC22252	Straight PCB					
SQRC22253	R/A PCB					
SQRC22260	None		B	Green	SQRC22260	SQRC22110
SQRC22261	Crimp					
SQRC22262	Straight PCB					
SQRC22263	R/A PCB					
SQRC22270	None		C	White	SQRC22270	SQRC22120
SQRC22271	Crimp					
SQRC22272	Straight PCB					
SQRC22273	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

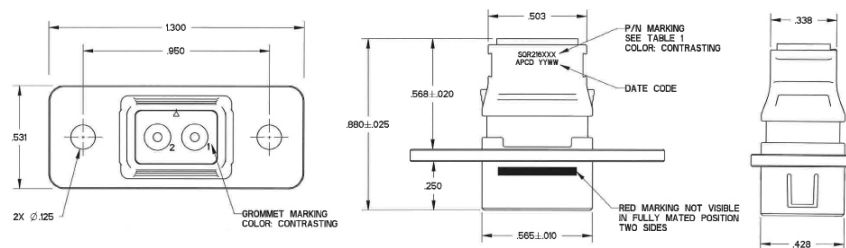
2 Position, Size 16 Front Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR216500	None	2	A	Black	SQR216500	SQR216150
SQR216501	Crimp					
SQR216502	Straight PCB					
SQR216503	R/A PCB					
SQR216510	None		B	Green	SQR216510	SQR216160
SQR216511	Crimp					
SQR216512	Straight PCB					
SQR216513	R/A PCB					
SQR216520	None		C	White	SQR216520	SQR216170
SQR216521	Crimp					
SQR216522	Straight PCB					
SQR216523	R/A PCB					



2 Position, Size 16 Front Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR216550	None	2	A	Black	SQR216550	SQR216100
SQR216551	Crimp					
SQR216552	Straight PCB					
SQR216553	R/A PCB					
SQR216560	None		B	Green	SQR216560	SQR216110
SQR216561	Crimp					
SQR216562	Straight PCB					
SQR216563	R/A PCB					
SQR216570	None		C	White	SQR216570	SQR216120
SQR216571	Crimp					
SQR216572	Straight PCB					
SQR216573	R/A PCB					



3 Position, Size 20 Front Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR320500	None	1	A	Black	SQR320500	SQR320150
SQR320501	Crimp					
SQR320502	Straight PCB					
SQR320503	R/A PCB					
SQR320510	None		B	Green	SQR320510	SQR320160
SQR320511	Crimp					
SQR320512	Straight PCB					
SQR320513	R/A PCB					
SQR320520	None		C	White	SQR320520	SQR320170
SQR320521	Crimp					
SQR320522	Straight PCB					
SQR320523	R/A PCB					

*Shell Size 1 Drawings: please contact marketing

3 Position, Size 20 Front Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR320550	None	1	A	Black	SQR320550	SQR320100
SQR320551	Crimp					
SQR320552	Straight PCB					
SQR320553	R/A PCB					
SQR320560	None		B	Green	SQR320560	SQR320110
SQR320561	Crimp					
SQR320562	Straight PCB					
SQR320563	R/A PCB					
SQR320570	None		C	White	SQR320570	SQR320120
SQR320571	Crimp					
SQR320572	Straight PCB					
SQR320573	R/A PCB					

*Shell Size 1 Drawings: please contact marketing

4 Position, Size 16 Front Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR416500	None	3	A	Black	SQR416500	SQR416150
SQR416501	Crimp					
SQR416502	Straight PCB					
SQR416503	R/A PCB					
SQR416510	None		B	Green	SQR416510	SQR416160
SQR416511	Crimp					
SQR416512	Straight PCB					
SQR416513	R/A PCB					
SQR416520	None		C	White	SQR416520	SQR416170
SQR416521	Crimp					
SQR416522	Straight PCB					
SQR416523	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

4 Position, Size 16 Front Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR416550	None	3	A	Black	SQR416550	SQR416100
SQR416551	Crimp					
SQR416552	Straight PCB					
SQR416553	R/A PCB					
SQR416560	None		B	Green	SQR416560	SQR416110
SQR416561	Crimp					
SQR416562	Straight PCB					
SQR416563	R/A PCB					
SQR416570	None		C	White	SQR416570	SQR416120
SQR416571	Crimp					
SQR416572	Straight PCB					
SQR416573	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

4 Position, Size 22 Front Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR422500	None	1	A	Black	SQR422500	SQR422150
SQR422501	Crimp					
SQR422502	Straight PCB					
SQR422503	R/A PCB					
SQR422510	None		B	Green	SQR422510	SQR422160
SQR422511	Crimp					
SQR422512	Straight PCB					
SQR422513	R/A PCB					
SQR422520	None		C	White	SQR422520	SQR422170
SQR422521	Crimp					
SQR422522	Straight PCB					
SQR422523	R/A PCB					

*Shell Size 1 Drawings: please contact marketing

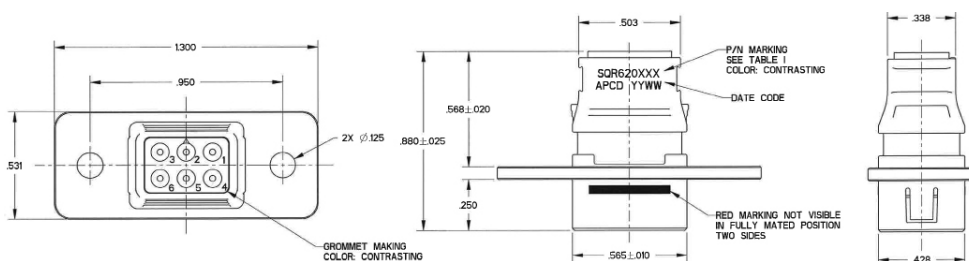
4 Position, Size 22 Front Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR422550	None	1	A	Black	SQR422550	SQR422100
SQR422551	Crimp					
SQR422552	Straight PCB					
SQR422553	R/A PCB					
SQR422560	None		B	Green	SQR422560	SQR422110
SQR422561	Crimp					
SQR422562	Straight PCB					
SQR422563	R/A PCB					
SQR422570	None		C	White	SQR422570	SQR422120
SQR422571	Crimp					
SQR422572	Straight PCB					
SQR422573	R/A PCB					

*Shell Size 1 Drawings: please contact marketing

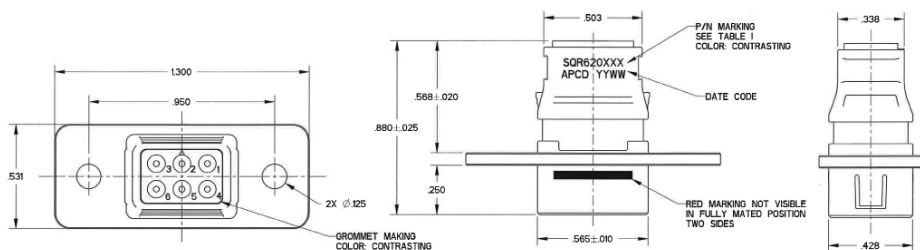
6 Position, Size 20 Front Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR620500	None	2	A	Black	SQR620500	SQR620150
SQR620501	Crimp					
SQR620502	Straight PCB					
SQR620503	R/A PCB					
SQR620510	None		B	Green	SQR620510	SQR620160
SQR620511	Crimp					
SQR620512	Straight PCB					
SQR620513	R/A PCB					
SQR620520	None		C	White	SQR620520	SQR620170
SQR620521	Crimp					
SQR620522	Straight PCB					
SQR620523	R/A PCB					



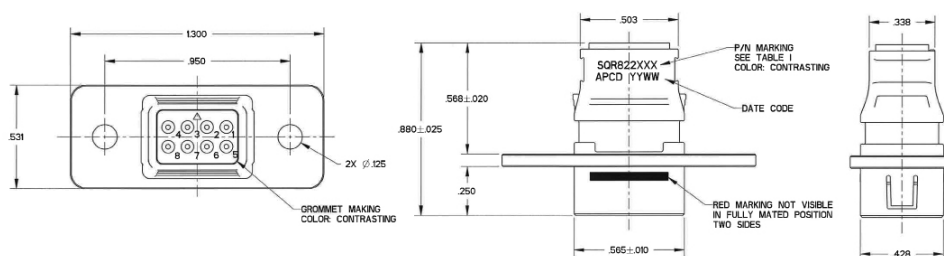
6 Position, Size 20 Front Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR620550	None	2	A	Black	SQR620550	SQR620100
SQR620551	Crimp					
SQR620552	Straight PCB					
SQR620553	R/A PCB					
SQR620560	None		B	Green	SQR620560	SQR620110
SQR620561	Crimp					
SQR620562	Straight PCB					
SQR620563	R/A PCB					
SQR620570	None		C	White	SQR620570	SQR620120
SQR620571	Crimp					
SQR620572	Straight PCB					
SQR620573	R/A PCB					



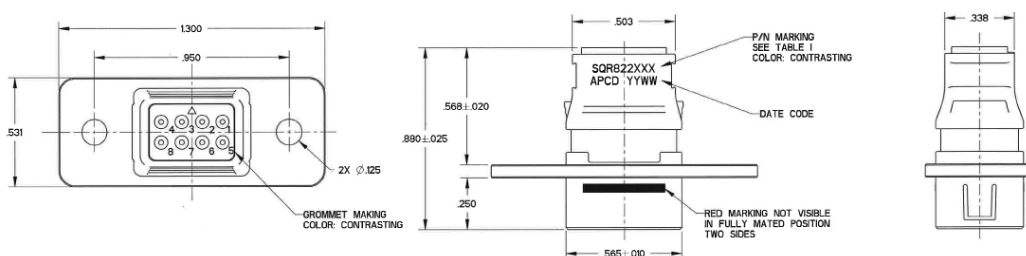
8 Position, Size 22 Front Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR822500	None	2	A	Black	SQR822500	SQR822150
SQR822501	Crimp					
SQR822502	Straight PCB					
SQR822503	R/A PCB					
SQR822510	None		B	Green	SQR822510	SQR822160
SQR822511	Crimp					
SQR822512	Straight PCB					
SQR822513	R/A PCB					
SQR822520	None		C	White	SQR822520	SQR822170
SQR822521	Crimp					
SQR822522	Straight PCB					
SQR822523	R/A PCB					



8 Position, Size 22 Front Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR822550	None	2	A	Black	SQR822550	SQR822100
SQR822551	Crimp					
SQR822552	Straight PCB					
SQR822553	R/A PCB					
SQR822560	None		B	Green	SQR822560	SQR822110
SQR822561	Crimp					
SQR822562	Straight PCB					
SQR822563	R/A PCB					
SQR822570	None		C	White	SQR822570	SQR822120
SQR822571	Crimp					
SQR822572	Straight PCB					
SQR822573	R/A PCB					



9 Position, Size 20 Front Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR920500	None	3	A	Black	SQR920500	SQR920150
SQR920501	Crimp					
SQR920502	Straight PCB					
SQR920503	R/A PCB					
SQR920510	None		B	Green	SQR920510	SQR920160
SQR920511	Crimp					
SQR920512	Straight PCB					
SQR920513	R/A PCB					
SQR920520	None		C	White	SQR920520	SQR920170
SQR920521	Crimp					
SQR920522	Straight PCB					
SQR920523	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

9 Position, Size 20 Front Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR920550	None	3	A	Black	SQR920550	SQR920100
SQR920551	Crimp					
SQR920552	Straight PCB					
SQR920553	R/A PCB					
SQR920560	None		B	Green	SQR920560	SQR920110
SQR920561	Crimp					
SQR920562	Straight PCB					
SQR920563	R/A PCB					
SQR920570	None		C	White	SQR920570	SQR920120
SQR920571	Crimp					
SQR920572	Straight PCB					
SQR920573	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

12 Position, Size 22 Front Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQRC22500	None	3	A	Black	SQRC22500	SQRC22150
SQRC22501	Crimp					
SQRC22502	Straight PCB					
SQRC22503	R/A PCB					
SQRC22510	None		B	Green	SQRC22510	SQRC22160
SQRC22511	Crimp					
SQRC22512	Straight PCB					
SQRC22513	R/A PCB					
SQRC22520	None		C	White	SQRC22520	SQRC22170
SQRC22521	Crimp					
SQRC22522	Straight PCB					
SQRC22523	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

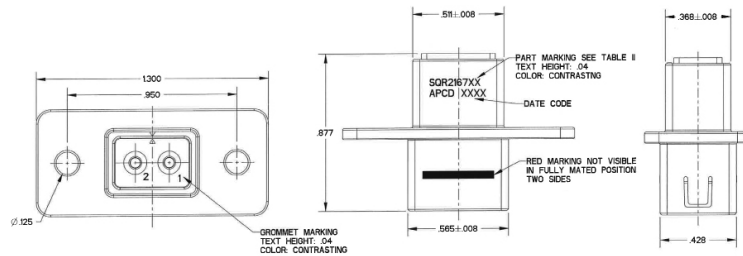
12 Position, Size 22 Front Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQRC22550	None	3	A	Black	SQRC22550	SQRC22100
SQRC22551	Crimp					
SQRC22552	Straight PCB					
SQRC22553	R/A PCB					
SQRC22560	None		B	Green	SQRC22560	SQRC22110
SQRC22561	Crimp					
SQRC22562	Straight PCB					
SQRC22563	R/A PCB					
SQRC22570	None		C	White	SQRC22570	SQRC22120
SQRC22571	Crimp					
SQRC22572	Straight PCB					
SQRC22573	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

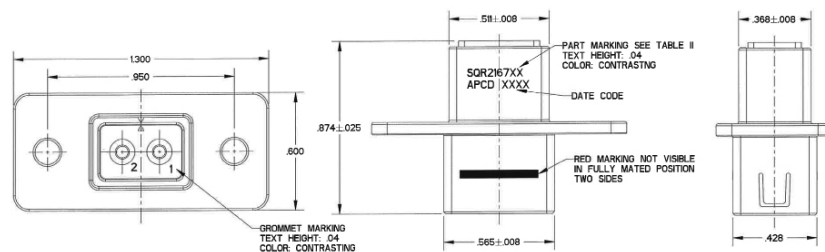
2 Position, Size 16 Rear Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR216700	None	2	A	Black	SQR216700	SQR216150
SQR216701	Crimp					
SQR216702	Straight PCB					
SQR216703	R/A PCB					
SQR216710	None		B	Green	SQR216710	SQR216160
SQR216711	Crimp					
SQR216712	Straight PCB					
SQR216713	R/A PCB					
SQR216720	None		C	White	SQR216720	SQR216170
SQR216721	Crimp					
SQR216722	Straight PCB					
SQR216723	R/A PCB					



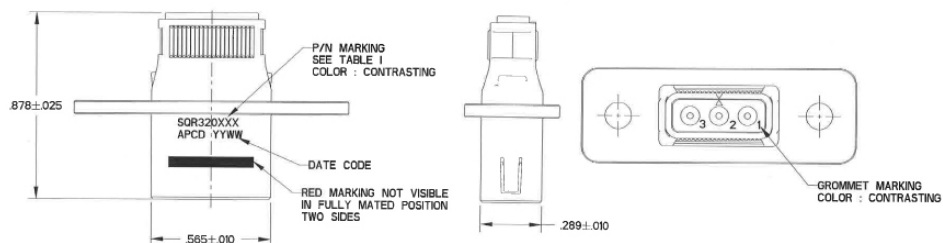
2 Position, Size 16 Rear Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR216750	None	2	A	Black	SQR216750	SQR216100
SQR216751	Crimp					
SQR216752	Straight PCB					
SQR216753	R/A PCB					
SQR216760	None		B	Green	SQR216760	SQR216110
SQR216761	Crimp					
SQR216762	Straight PCB					
SQR216763	R/A PCB					
SQR216770	None		C	White	SQR216770	SQR216120
SQR216771	Crimp					
SQR216772	Straight PCB					
SQR216773	R/A PCB					



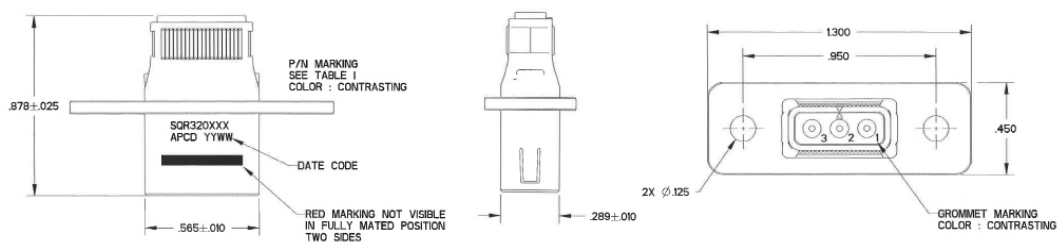
3 Position, Size 20 Rear Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR320700	None	1	A	Black	SQR320700	SQR320150
SQR320701	Crimp					
SQR320702	Straight PCB					
SQR320703	R/A PCB					
SQR320710	None		B	Green	SQR320710	SQR320160
SQR320711	Crimp					
SQR320712	Straight PCB					
SQR320713	R/A PCB					
SQR320720	None		C	White	SQR320720	SQR320170
SQR320721	Crimp					
SQR320722	Straight PCB					
SQR320723	R/A PCB					



3 Position, Size 20 Rear Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR320750	None	1	A	Black	SQR320750	SQR320100
SQR320751	Crimp					
SQR320752	Straight PCB					
SQR320753	R/A PCB					
SQR320760	None		B	Green	SQR320760	SQR320110
SQR320761	Crimp					
SQR320762	Straight PCB					
SQR320763	R/A PCB					
SQR320770	None		C	White	SQR320770	SQR320120
SQR320771	Crimp					
SQR320772	Straight PCB					
SQR320773	R/A PCB					



4 Position, Size 16 Rear Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR416700	None	3	A	Black	SQR416700	SQR416150
SQR416701	Crimp					
SQR416702	Straight PCB					
SQR416703	R/A PCB					
SQR416710	None		B	Green	SQR416710	SQR416160
SQR416711	Crimp					
SQR416712	Straight PCB					
SQR416713	R/A PCB					
SQR416720	None		C	White	SQR416720	SQR416170
SQR416721	Crimp					
SQR416722	Straight PCB					
SQR416723	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

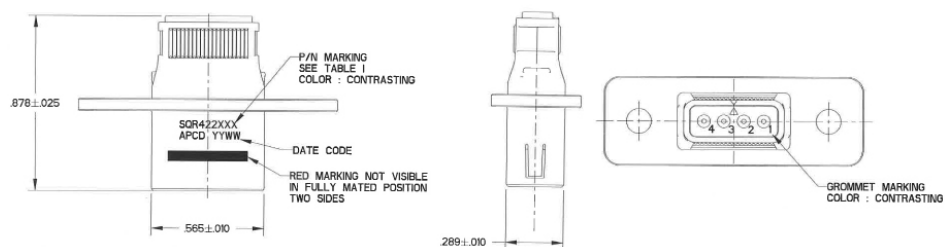
4 Position, Size 16 Rear Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR416750	None	3	A	Black	SQR416750	SQR416100
SQR416751	Crimp					
SQR416752	Straight PCB					
SQR416753	R/A PCB					
SQR416760	None		B	Green	SQR416760	SQR416110
SQR416761	Crimp					
SQR416762	Straight PCB					
SQR416763	R/A PCB					
SQR416770	None		C	White	SQR416770	SQR416120
SQR416771	Crimp					
SQR416772	Straight PCB					
SQR416773	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

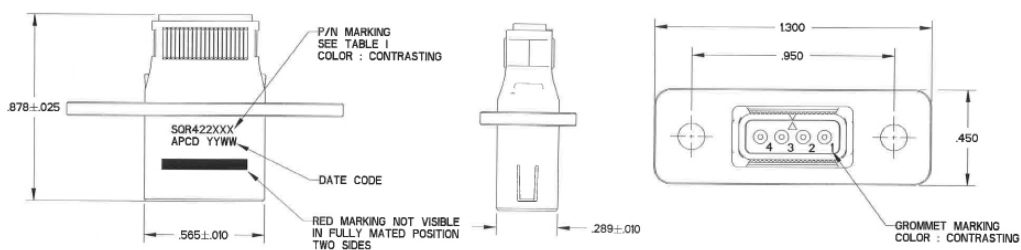
4 Position, Size 22 Rear Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR422700	None	1	A	Black	SQR422700	SQR422150
SQR422701	Crimp					
SQR422702	Straight PCB					
SQR422703	R/A PCB					
SQR422710	None		B	Green	SQR422710	SQR422160
SQR422711	Crimp					
SQR422712	Straight PCB					
SQR422713	R/A PCB					
SQR422720	None		C	White	SQR422720	SQR422170
SQR422721	Crimp					
SQR422722	Straight PCB					
SQR422723	R/A PCB					



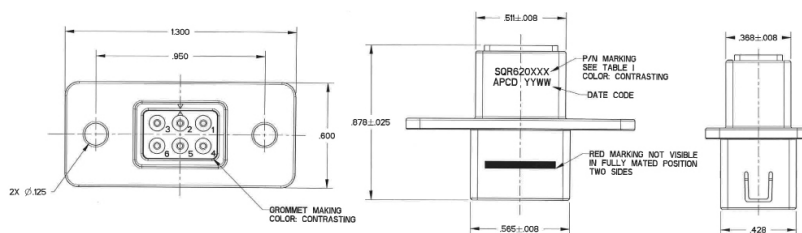
4 Position, Size 22 Rear Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR422750	None	1	A	Black	SQR422750	SQR422100
SQR422751	Crimp					
SQR422752	Straight PCB					
SQR422753	R/A PCB					
SQR422760	None		B	Green	SQR422760	SQR422110
SQR422761	Crimp					
SQR422762	Straight PCB					
SQR422763	R/A PCB					
SQR422770	None		C	White	SQR422770	SQR422120
SQR422771	Crimp					
SQR422772	Straight PCB					
SQR422773	R/A PCB					



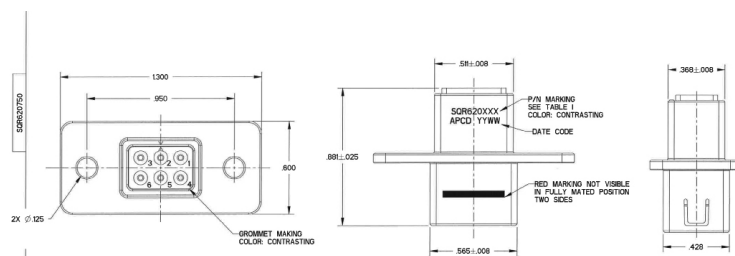
6 Position, Size 20 Rear Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR620700	None	2	A	Black	SQR620700	SQR620150
SQR620701	Crimp					
SQR620702	Straight PCB					
SQR620703	R/A PCB					
SQR620710	None		B	Green	SQR620710	SQR620160
SQR620711	Crimp					
SQR620712	Straight PCB					
SQR620713	R/A PCB					
SQR620720	None		C	White	SQR620720	SQR620170
SQR620721	Crimp					
SQR620722	Straight PCB					
SQR620723	R/A PCB					



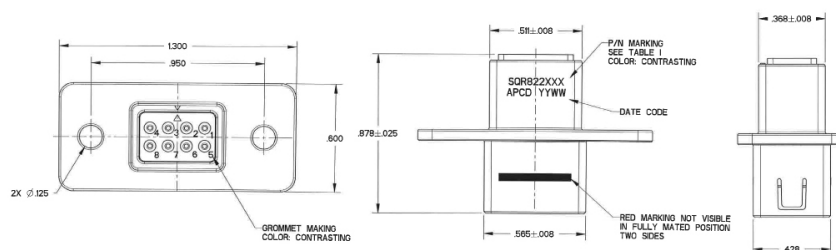
6 Position, Size 20 Rear Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR620750	None	2	A	Black	SQR620750	SQR620100
SQR620751	Crimp					
SQR620752	Straight PCB					
SQR620753	R/A PCB					
SQR620760	None		B	Green	SQR620760	SQR620110
SQR620761	Crimp					
SQR620762	Straight PCB					
SQR620763	R/A PCB					
SQR620770	None		C	White	SQR620770	SQR620120
SQR620771	Crimp					
SQR620772	Straight PCB					
SQR620773	R/A PCB					



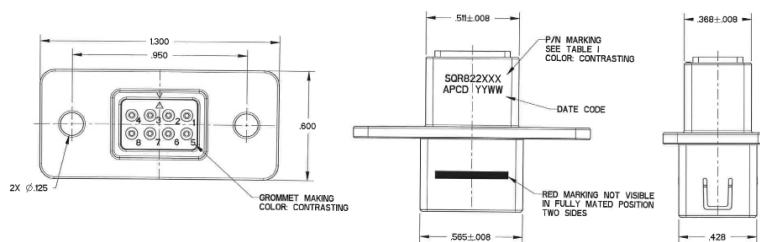
8 Position, Size 22 Rear Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR822700	None	2	A	Black	SQR822700	SQR822150
SQR822701	Crimp					
SQR822702	Straight PCB					
SQR822703	R/A PCB					
SQR822710	None		B	Green	SQR822710	SQR822160
SQR822711	Crimp					
SQR822712	Straight PCB					
SQR822713	R/A PCB					
SQR822720	None		C	White	SQR822720	SQR822170
SQR822721	Crimp					
SQR822722	Straight PCB					
SQR822723	R/A PCB					



8 Position, Size 22 Rear Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR822750	None	2	A	Black	SQR822750	SQR822100
SQR822751	Crimp					
SQR822752	Straight PCB					
SQR822753	R/A PCB					
SQR822760	None		B	Green	SQR822760	SQR822110
SQR822761	Crimp					
SQR822762	Straight PCB					
SQR822763	R/A PCB					
SQR822770	None		C	White	SQR822770	SQR822120
SQR822771	Crimp					
SQR822772	Straight PCB					
SQR822773	R/A PCB					



9 Position, Size 20 Rear Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR920700	None	3	A	Black	SQR920700	SQR920150
SQR920701	Crimp					
SQR920702	Straight PCB					
SQR920703	R/A PCB					
SQR920710	None		B	Green	SQR920710	SQR920160
SQR920711	Crimp					
SQR920712	Straight PCB					
SQR920713	R/A PCB					
SQR920720	None		C	White	SQR920720	SQR920170
SQR920721	Crimp					
SQR920722	Straight PCB					
SQR920723	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

9 Position, Size 20 Rear Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQR920750	None	3	A	Black	SQR920750	SQR920100
SQR920751	Crimp					
SQR920752	Straight PCB					
SQR920753	R/A PCB					
SQR920760	None		B	Green	SQR920760	SQR920110
SQR920761	Crimp					
SQR920762	Straight PCB					
SQR920763	R/A PCB					
SQR920770	None		C	White	SQR920770	SQR920120
SQR920771	Crimp					
SQR920772	Straight PCB					
SQR920773	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

12 Position, Size 22 Rear Mount Flange w/ Pin Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQRC22700	None	3	A	Black	SQRC22700	SQRC22150
SQRC22701	Crimp					
SQRC22702	Straight PCB					
SQRC22703	R/A PCB					
SQRC22710	None		B	Green	SQRC22710	SQRC22160
SQRC22711	Crimp					
SQRC22712	Straight PCB					
SQRC22713	R/A PCB					
SQRC22720	None		C	White	SQRC22720	SQRC22170
SQRC22721	Crimp					
SQRC22722	Straight PCB					
SQRC22723	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

12 Position, Size 22 Rear Mount Flange w/ Socket Contacts

APCD P/N	Contact Type	Shell Size	Key	Color	P/N Marking	Mating
SQRC22750	None	3	A	Black	SQRC22750	SQRC22100
SQRC22751	Crimp					
SQRC22752	Straight PCB					
SQRC22753	R/A PCB					
SQRC22760	None		B	Green	SQRC22760	SQRC22110
SQRC22761	Crimp					
SQRC22762	Straight PCB					
SQRC22763	R/A PCB					
SQRC22770	None		C	White	SQRC22770	SQRC22120
SQRC22771	Crimp					
SQRC22772	Straight PCB					
SQRC22773	R/A PCB					

*Shell Size 3 Drawings: please contact marketing

CONTACTS & SEALING PLUGS					
Contact Size	Contact Style	Pin or Socket	APCD P/N	M39029 P/N	Power
22	Crimp	Pin	CNP058360	M39029/58-360	5 Amp
		Socket	CNS057354	M39029/57-354	
	Straight PCB	Pin	211350100	n/a	
		Socket	211350200	n/a	
	RA PCB	Pin	211350110, 120, 130	n/a	
		Socket	211350210, 220, 230	n/a	
	Sealing Plug	Pin	CNA032404	MS27488-22-2	-
20	Crimp	Pin	CNP058363	M39029/58-363	7.5 Amp
		Socket	CNS057357	M3902957-357	
	Straight PCB	Pin	211350300	n/a	
		Socket	211350400	n/a	
	RA PCB	Pin	211350310, 320, 330	n/a	
		Socket	211350410, 420, 430	n/a	
	Sealing Plug	Pin	CNA032401	MS27488-20-2	-
16	Crimp	Pin	CNP058364	M39029/58-364	13 Amp
		Socket	CNS057358	M39029/57-358	
	Straight PCB	Pin	211350500	n/a	
		Socket	211350600	n/a	
	RA PCB	Pin	211350510, 520, 530	n/a	
		Socket	211350610, 620, 630	n/a	
	Sealing Plug	Pin	CNA032402	MS27488-16-2	-

WIRE ACCOMODATIONS				
Contact Size	Contact Style	Pin or Socket	APCD P/N	M39029 P/N
12	12	23	.097 - .142" [2.46 - 3.61mm]	.209 - .240" [5.31 - 6.10mm]
	14	17		
16	16	13	.065 - .109" [1.65 - 2.77mm]	.209 - .240" [5.31 - 6.10mm]
	18	10		
	20	7.5		
20	20	7.5	.040 - .083" [1.02 - 2.11mm]	.209 - .240" [5.31 - 6.10mm]
	22	5		
	24	3		
22D	22	5	.030 - .054" [0.76 - 1.37mm]	.141 - .172" [3.58 - 4.37mm]
	24	3		
	26	2		
	28	1.5		

Thermocouple Wire Contacts

The standard contacts in our Luminus, Pegasus and Solaris connectors can be replaced with thermocouple wire contacts. Generally, there are four types of thermocouple wire types, that must be matched to a contact made of the same metal. They four supported thermocouple wire types are: Constantan, Alumel, Chromel, Iron.

THERMOCOUPLE WIRE CONTACT MATRIX				
Contact Size	Type	Mil-Spec Standard Contact	APCD Standard Contact	Thermocouple Wire Contacts
12	Pin	M39029/58-365	CNP058365	n/a
16	Pin	M39029/58-364	CNP058364	M39029/87-478 (Constantan) M39029/87-479 (Alume) M39029/87-480 (Chromel) M39029/87-481 (Iron)
20	Pin	M39029/58-363	CNP058363	M39029/87-474 (Constantan) M39029/87-475 (Alume) M39029/87-476 (Chromel) M39029/87-477 (Iron)
22	Pin	M39029/58-360	CNP058360	M39029/87-470 (Constantan) M39029/87-471 (Alume) M39029/87-472 (Chromel) M39029/87-473 (Iron)
12	Socket	M39029/57-359	CNS057359	n/a
16	Socket	M39029/57-358	CNS057358	M39029/89-502 (Constantan) M39029/87-503 (Alume) M39029/87-504 (Chromel) M39029/87-505 (Iron)
20	Socket	M39029/57-357	CNS057357	M39029/89-498 (Constantan) M39029/87-499 (Alume) M39029/87-500 (Chromel) M39029/87-501 (Iron)
22	Socket	M39029/57-354	CNS057354	M39029/89-494 (Constantan) M39029/87-495 (Alume) M39029/87-496 (Chromel) M39029/87-497 (Iron)

WIRE STRIPPING GUIDE			
Contact Size	Wire Size	Insulation O.D	Stripping Length "A"
8	8-10 AWG	0.124-.0155 in	0.470 in
12	12-14 AWG	0.097-0.142 in	0.188 in
16	16-20 AWG	0.065-.0109 in	0.188 in
20	20-24 AWG	0.040-0.083 in	0.188 in
22D	22-28 AWG	0030-0.055 in	0.125 in

CONTACTS & TOOLING

Tooling Part Numbers



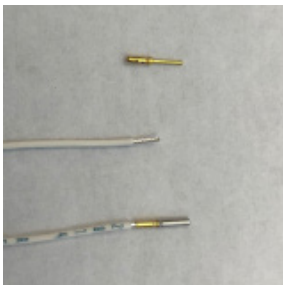
Contact P/N	Mating End Size	Wire Barrel Size	Wire Gage Range	Test Current Per Wire Gage (A)	Crimp Tool	Positioner	Installation Tool	Extraction Tool
M39029/56-351	20	20	20	7.5	M22520/1-01	M22520/1-04 (Red)	M81969/8-05	M81969/8-06
			22	5	M22520/2-01	M22520/2-10	M81969/14-10	
			24	3	M22520/7-01	M22520/7-08		
M39029/56-352	16	16	16	13	M22520/1-01	M22520/1-04 (Blue)	M81969/8-07	M81969/8-08
			18	10	M22520/7-01	M22520/7-04	M81969/14-03	
			20	7.5				
M39029/56-353	12	12	12	23	M22520/1-01	M22520/1-04 (Yellow)	M81969/8-09	M81969/8-10
			14	17			M81969/14-04	
M39029/57-354	22	22D	22	5	M22520/2-01	M22520/2-06	M81969/8-01	M81969/8-02
			24	3	M22520/7-01	M22520/7-06	M81960/14-01	
			26	2				
			28	1.5				
M39029/57-357	20	20	20	7.5	M22520/1-01	M22520/1-04 (Red)	M81969/8-05	M81969/8-06
			22	5	M22520/2-01	M22520/2-10	M81969/14-10	
			24	3	M22520/7-01	M22520/7-08		
M39029/57-358	16	16	16	13	M22520/1-01	M22520/1-04 (Blue)	M81969/8-07	M81969/8-08
			18	10	M22520/7-01	M22520/7-04	M81969/14-03	
			20	7.5				
M39029/57-359	12	12	12	23	M22520/1-01	M22520/1-04 (Yellow)	M81969/8-09	M81969/8-10
			14	17			M81969/14-04	
M39029/58-360	22	22D	22	5	M22520/2-01	M22520/2-09	M81969/8-01	M81969/8-02
			24	3	M22520/7-01	M22520/7-07	M81969/14-01	
			26	2				
			28	1.5				
M39029/58-363	20	20	20	7.5	M22520/1-01	M22520/1-04 (Red)	M81969/8-05	M81969/8-06
			22	5	M22520/2-01	M22520/2-10	M81969/14-10	
			24	3	M22520/7-01	M22520/7-08		
M39029/58-364	16	16	16	13	M22520/1-01	M22520/1-04 (Blue)	M81969/8-07	M81969/8-08
			18	10	M22520/7-01	M22520/7-04	M81969/14-03	
			20	7.5				
M39029/58-365	12	12	12	23	M22520/1-01	M22520/1-04 (Yellow)	M81969/8-09	M81969/8-10
			14	17			M81969/14-04	

Crimp Tool Setup

- 1. Select proper crimp tool and positioner based on contact size from the tables.
- 2. Assemble positioner on crimp tool and turn to lock it in place.
- 3. Use instructions on the positioner to set the dial on the crimp tool.

Crimp Wire To Contacts

- 1. Place the wire into the contact. All wire strands should be in crimp barrel and wire must be visible through inspection hole.
- 2. Place the contact fully into the crimp tool so the contact shoulder is against the crimp tool shoulder.
- 3. Squeeze the handles on the crimp tool together firmly until the ratchet disengages. The tool will not release until the crimp cycle is complete.
- 4. Check that the wire is still visible through the inspection hole in the contact.



Step One



Step One



Step Three



Step Four

Wire Preparation

Strip wire to length shown in chart. Do not cut or nick wire strands. Twist wire strands back to form a firm bundle.

Contact Size	Wire Size	Insulation O.D	Stripping Length "A"
22D	22-28 AWG	.030-.055 in	.118-.157 in

Crimp Tool

Part Number: 10-745003-22D or DMC GMT220



Product Support



**APeX, Pegasus, Solaris, Luminus,
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**Backshells, Dust Caps, D-Subs;
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Key Commercial Aerospace Standards & Military Specifications

Audio Connectors
M55116

Backshells
M85049
B0803008, B0817022, 23, 24, 25 (Bombardier Specifications)

Backshell Accessories
MS3180, 81
D38999/32, /33
MS25042, 43; MS27501, 02; MS27510, 11
D38999/22, /28

Circular
D38999
M26482, 62GB
Hermetics
M83723
M22992/Class L
BACC63DE, F, G, H
BACC63ED, E, F

D-Subs
M24308/1, /2, /3, /4, /5, /6, /7, /8, /23, /24

Modules
BACM15
BACB20VG
BACC50AN (Ground Blocks)

Power Connectors
M55181

Rectangular
ARINC 810
EN4644

Relay Sockets
M12883
BACS16X, W

Rugged Solutions
Mil-Std-810 Environmental
D38999 Derivative (RJFTV) & (USBFTV)
D26482 Derivative (RJF)
Mil-Std-1275 (Ethernet Switches; Power Spike & Surge)
Mil-Std-704A (Ethernet Switches; Aircraft Electrical Power) Mil-Std-461 (Ethernet Switches; EMI)

SIM
ARINC 809
EN4165

System Attachments
BACC10NA, BACC10NB, BACN11BR, BACN13B, BACS18AY/
AX, BACS31BB/BC/BD, BACS45C, BACS31BE, BACS31AG

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