



## LUMINUS

Luminus: Small, lightweight, low-cost circular solutions



## Overview

Luminus are lightweight, cost-effective connectors that are highly reliable and simple to use. With multiple configurations and arrangements available, a solution can be tailored to suite your application's exact requirements. Proven solutions can be found in single engine general aviation, multiple-engine business and passenger jets, and high performance rotary aircraft.

Ideal where space is limited, these innovative, "scoop-proof" connectors feature a locking mechanism that ensures stability, are suitable for blind-mating, and are RoHS compliant.

## Features & Benefits

|                                                             |                                                                                                                |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1/4 turn bayonet style connection; push and snap connection | Makes wire installation/maintenance easy and efficient; positive "click" when locked                           |
| Interfacial and Triple-Barrier Seal                         | Enables environmental sealing (IP 67 rating)                                                                   |
| Multiple Keying Positions                                   | Ensures proper connectivity                                                                                    |
| Multiple Configurations and Accessories                     | Tailored solutions to meet application needs                                                                   |
| Contacts                                                    | AS39029 MIL Spec contacts for broad application compatibility. Stamped & Formed available as lower cost option |
| Visual markings                                             | Visual aid for easy assembly                                                                                   |
| Rugged Polyamide Housings; 500 mating cycles                | Durability                                                                                                     |
| Blind-Mate Connection                                       | Enables simple, blind mating; easy assembly                                                                    |
| D160, M81714, FAR25 Compliance                              | Meets demanding military-aerospace environmental conditions                                                    |

## Materials & Specifications

|                         |                                       |
|-------------------------|---------------------------------------|
| Materials               | Insulator Body: Polyamide 6/6 (Nylon) |
|                         | Grommet & Face Seal: Silicone Rubber  |
|                         | Contact Retainer: Stainless Steel     |
| Temperature Range       | -65°C to 125°C                        |
| Temperature Life        | 500 hours @ 85°C                      |
| Insulation Resistance   | 5000 MΩ Min. @ 500 VDC                |
| Dielectric Withstanding | 1500 VAC, 60 Hz @ Sea Level, 1ma      |
|                         | 300 VAC, 60 Hz @ 70,000 ft, 2ma       |
| Durability              | 500 mating cycles                     |
| Temperature Cycling     | 5(1) Hour Cycles: -65°C to 125°C      |
| Thermal Shock           | -65°C to 200°C                        |
| Vibration               | 30G Sinusoidal; 43.96G Random         |
| Shock                   | 300G, 3msec, Half-Sine                |
| Salt Spray              | 5% Salt Spray @ 95°C for 48 Hours     |
| Humidity                | 10 Days @ 25°C to 65°C, 90% - 95% RH  |
| Seal Rating             | IP67                                  |
| RoHS & REACH Compliance | Yes                                   |

|                                                      |                                                    |        |
|------------------------------------------------------|----------------------------------------------------|--------|
| Fluid Immersion                                      | Lubricating Oil per Mil-Prf-7808                   |        |
|                                                      | Cleaning Compound per Mil-Prf-87937, Alkaline Base |        |
|                                                      | Isopropyl Alcohol & Mineral Spirit Solution        |        |
|                                                      | Skydrol Hydraulic Fluid                            |        |
|                                                      | Hydraulic Fluids per MIL-PRF-83282 MIL-PRF-87257   |        |
|                                                      | Ethylene Glycol                                    |        |
|                                                      | Propylene Glycol                                   |        |
| Flammability                                         | Aviation Jet A                                     |        |
|                                                      | UL94, V0.                                          |        |
|                                                      | DOTG section 26.6.2 & 26.6.3                       |        |
| Contact Insertion & Removal Force<br>(not to exceed) | FAR Part 25 App F Part I                           |        |
|                                                      | size 22                                            | 10 lbs |
|                                                      | size 20                                            | 10 lbs |
|                                                      | size 16                                            | 13 lbs |
| Contact Retention<br>(minimum)                       | size 12                                            | 15 lbs |
|                                                      | size 22                                            | 10 lbs |
|                                                      | size 20                                            | 15 lbs |
|                                                      | size 16                                            | 25 lbs |
|                                                      | size 12                                            | 30 lbs |

## Part Numbering-Twist & Lock

|                |              |            |     |        |  |                       |                         |                       |                      |                     |                                   |
|----------------|--------------|------------|-----|--------|------------------------------------------------------------------------------------|-----------------------|-------------------------|-----------------------|----------------------|---------------------|-----------------------------------|
| # of Positions | Contact Size | Shell Size | Key | Color  | Plug P/N                                                                           | Inline Receptacle P/N | Circular Receptacle P/N | Square Receptacle P/N | Jamnut PCB Mount P/N | Oval Receptacle P/N | Jam Nut Rear Mount Receptacle P/N |
| 1              | Quadrax      | 8          | -   | -      | SJS801110                                                                          | SJS801120             | -                       | SJS801130*            | SJS801160*           | SJS801170*          | SJS801190*                        |
| 2              | 22D          | 5          | -   | Black  | SJS830250                                                                          | SJS830270             | -                       | -                     | SJS502160            | SJS502170           | SJS502190                         |
| 3              | 12           | 10         | -   | -      | SJS003110                                                                          | SJS003120*            | -                       | -                     | -                    | -                   | -                                 |
| 3              | 12           | 11         | -   | Black  | SJS103110*                                                                         | SJS103120*            | -                       | -                     | -                    | -                   | -                                 |
| 3              | 16           | 8          | A   | White  | SJS840310                                                                          | SJS840300             | SJS840320               | SJS803730             | -                    | -                   | -                                 |
| 3              | 16           | 8          | B   | Black  | SJS840340                                                                          | SJS840350             | SJS840330               | SJS803130             | -                    | -                   | -                                 |
| 3              | 20           | 7          | -   | White  | SJS862300                                                                          | SJS862400             | -                       | SJS862450             | -                    | -                   | -                                 |
| 3              | 22D          | 5          | -   | Black  | SJS830210                                                                          | SJS830230             | -                       | -                     | SJS503160            | SJS503170           | SJS503190                         |
| 4              | 16           | 8          | A   | White  | SJS840410                                                                          | SJS840400             | SJS840420*              | SJS804730             | SJS840760            | -                   | SJS804790                         |
| 4              | 16           | 8          | B   | White  | SJS840440                                                                          | SJS840450             | SJS840430               | -                     | -                    | -                   | -                                 |
| 4              | 20           | 7          | -   | Black  | SJS704110                                                                          | SJS704120             | -                       | -                     | -                    | -                   | -                                 |
| 5              | 22D          | 8          | -   | White  | SJS860510                                                                          | SJS860500             | SJS860520               | SJS805730             | -                    | -                   | -                                 |
| 5              | 22D          | 8          | -   | White  | SJS870510                                                                          | -                     | SJS870520               | -                     | -                    | -                   | -                                 |
| 6              | 22D          | 7          | -   | Black  | SJS861700                                                                          | SJS861800             | -                       | -                     | SJS706160            | -                   | -                                 |
| 8              | 22D          | 7          | A   | Black  | SJS830100                                                                          | SJS830200             | -                       | SJS830220             | SJS708160            | SJS708170           | SJS708190                         |
| 8              | 22D          | 7          | B   | Green  | SJS830101                                                                          | SJS830201             | -                       | SJS830221             | -                    | -                   | -                                 |
| 8              | 22D          | 7          | C   | Yellow | SJS830102                                                                          | SJS830202             | -                       | SJS830222             | -                    | -                   | -                                 |
| 9              | 22D          | 8          | -   | Black  | SJS862100                                                                          | SJS862200             | -                       | SJS809130             | -                    | -                   | -                                 |
| 12             | 20           | 14         | -   | Black  | SJS412110                                                                          | SJS412120             | -                       | -                     | -                    | -                   | -                                 |
| 12             | 22D          | 8          | -   | White  | SJS861300                                                                          | SJS861400             | -                       | SJS812730             | SJS812760*           | -                   | -                                 |
| 12             | 22D          | 11         | A   | Black  | SJS112110                                                                          | SJS112120             | -                       | -                     | SJS112160            | -                   | -                                 |
| 12             | 22D          | 11         | B   | Green  | SJS112210                                                                          | SJS112220             | -                       | -                     | SJS112260            | -                   | -                                 |
| 12             | 22D          | 11         | C   | White  | SJS112310                                                                          | SJS112320             | -                       | -                     | SJS112360            | -                   | -                                 |
| 12             | 22D          | 11         | D   | Yellow | SJS112410                                                                          | SJS112420             | -                       | -                     | SJS112460            | -                   | -                                 |
| 25             | 22D          | 14         | A   | Black  | SJS425110                                                                          | SJS425120             | -                       | -                     | SJS425160            | -                   | -                                 |
| 25             | 22D          | 14         | B   | Green  | SJS425210                                                                          | SJS425220             | -                       | -                     | SJS425260            | -                   | -                                 |
| 25             | 22D          | 14         | C   | White  | SJS425310                                                                          | SJS425320             | -                       | -                     | SJS425360            | -                   | -                                 |
| 25             | 22D          | 14         | D   | Yellow | SJS425410                                                                          | SJS425420             | -                       | -                     | SJS425460            | -                   | -                                 |
| 5              | 12 (3)       | 11         | -   | Black  | SJS1AE110*                                                                         | SJ1AE120*             | -                       | -                     | -                    | -                   | -                                 |
|                | 22 (2)       |            |     |        |                                                                                    |                       |                         |                       |                      |                     |                                   |
| 9              | 16           | 8          | -   | White  | SJS860100                                                                          | SJS860200             | -                       | SJS8AC730             | -                    | -                   | -                                 |
|                | 22D          |            |     |        |                                                                                    |                       |                         |                       |                      |                     |                                   |
| 9              | 16           | 10         | -   | White  | SJS860910                                                                          | SJS860900             | -                       | SJS0AA730             | -                    | -                   | -                                 |
|                | 22D          |            |     |        |                                                                                    |                       |                         |                       |                      |                     |                                   |
| 10             | 16           | 10         | -   | White  | SJS861100                                                                          | SJS861200             | -                       | SJS0A8730*            | SJS0BB760*           | -                   | -                                 |
|                | 22D          |            |     |        |                                                                                    |                       |                         |                       |                      |                     |                                   |

\* Available at extended lead times

## Applications

- Aerospace Lighting
- Power & Signal Distribution
- Cabin Service Systems
- Actuation & Sensors
- In-Flight Entertainment



## Shell Sizes

05 (max dia: 0.318)



2, size 22, Twist & Lock



3, size 22, Twist & Lock

06 (max dia: 0.390)



1, size 16 & 20, Push & Pull

07 (max dia: 0.448)



6, size 22, Twist & Lock



8, size 22, Twist & Lock



1, size 12, Push & Pull

08 (max dia: 0.528)



4, size 16, Twist & Lock



5, size 22, Twist & Lock



9: 1, size 16; 8 size 22 Twist & Lock

08 (max dia: 0.528)- Continued



9, size 22 Twist & Lock



3, size 16 Twist & Lock



3, size 20 Push & Pull

10 (max dia: 0.630)



9: 4, size 16; 5 size 22 Twist & Lock



10: 4, size 16; 6 size 22 Twist & Lock

11 (max dia: 0.700)



3, size 12, Twist & Lock



3, size 16, Push & Pull

14 (max dia: 0.875)



25, size 22, Twist & Lock

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## Index

| Type                | Page  |
|---------------------|-------|
| Inline Plug         | 7     |
| Inline Receptacle   | 16    |
| Jamnut Rear Mount   | 26    |
| Jamnut              | 29    |
| Square Receptacle   | 33    |
| Oval Receptacle     | 38    |
| Circular Receptacle | 40    |
| Accessories         | 42    |
| Contacts            | 43    |
| Tooling             | 44-45 |

## More from Amphenol Pcd's Luminus Series

### Luminus High Speed

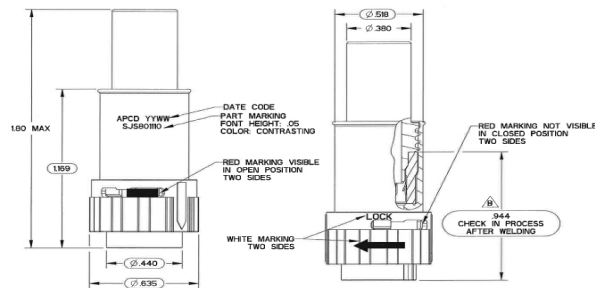
Amphenol Pcd has expanded the capability of Luminus to support industry standard TWINAX and QUADRAX style contacts. Luminus High Speed provides exceptional performance in tight spaces, with a svelte shell size 8 (0.512") outer diameter. With the explosive growth in ethernet enabled devices (IOT), this size and configuration is particularly suited for end point applications, such as individual avionics sensors, panel mounted units, seat back and wall mounted displays and monuments. Unlike many of the competitive connectors, which are multipiece assemblies, Luminus High Speed shells are a single piece housing, impervious to humidity and dust, further enhancing clean, crack free operations over the full operating temperature and environmental conditions.

### Ask about New Luminus Accessories Concepts

- Two stage Latch Connector
- 3-Way H Splice
- 3-Way T Splice
- 3-Way Y Splice
- 3-Way Vertical Distribution

## 1 Position, Quadrax Inline Plug

| APCD P/N     | Contact Type        | Contact P/N | Shell Size | Key | Color | P/N Marking | Mating       |
|--------------|---------------------|-------------|------------|-----|-------|-------------|--------------|
| SJS801110    | None                |             | 8          | -   | Black | SJS801110P  | SJS801120    |
| SJS801110-1  | Power               | CNS808100   |            |     |       |             | SJS801120-1  |
| SJS80111P-2  | Differential Twinax | CNS882100   |            |     |       |             | SJS801120-2  |
| SJS801110-3  |                     | CNS882110   |            |     |       |             | SJS801120-3  |
| SJS801110-4  |                     | CNS882120   |            |     |       |             | SJS801120-4  |
| SJS801110-5  |                     | CNS882130   |            |     |       |             | SJS801120-5  |
| SJS801110-6  |                     | CNS882140   |            |     |       |             | SJS801120-6  |
| SJS801110-7  |                     | CNS882150   |            |     |       |             | SJS801120-7  |
| SJS801110-8  | Quadrax             | CNS882200   |            |     |       |             | SJS801120-8  |
| SJS801110-9  |                     | CNS882210   |            |     |       |             | SJS801120-9  |
| SJS801110-10 |                     | CNS882220   |            |     |       |             | SJS801120-10 |
| SJS801110-11 |                     | CNS882230   |            |     |       |             | SJS801120-11 |
| SJS801110-12 |                     | CNS882240   |            |     |       |             | SJS801120-12 |
| SJS801110-13 |                     | CNS882250   |            |     |       |             | SJS801120-13 |



## Inline Plug

| Type | Part Number | Position | Size    | Page |
|------|-------------|----------|---------|------|
|      | SJS830250   | 2        | 22      |      |
|      | SJS840310   | 3        | 16      |      |
|      | SJS862300   | 3        | 20      |      |
|      | SJS830210   | 3        | 22      |      |
|      | SJS840410   | 4        | 16      |      |
|      | SJS704110   | 4        | 20      |      |
|      | SJS860510   | 5        | 22      |      |
|      | SJS406110   | 6        | 12      |      |
|      | SJS861700   | 6        | 22      |      |
|      | SJS830100   | 8        | 22      |      |
|      | SJS860100   | 9        | 16 & 22 |      |
|      | SJS860910   | 9        | 16 & 22 |      |
|      | SJS862100   | 9        | 22      |      |
|      | SJS861100   | 10       | 16 & 22 |      |
|      | SJS412110   | 12       | 16      |      |
|      | SJS861300   | 12       | 22      |      |
|      | SJS112110   | 12       | 22      |      |
|      | SJS425110   | 25       | 22      |      |

Technical drawing of a 10-pin D-sub connector. The drawing includes a side view with dimensions and a top view.

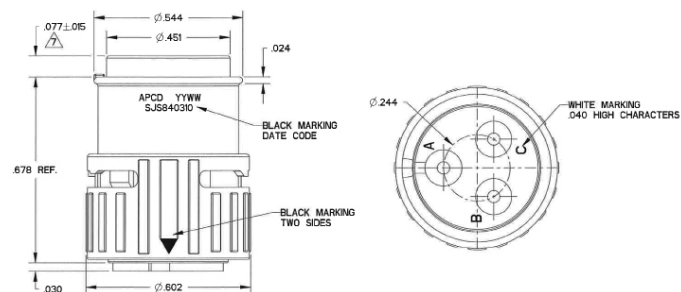
**Dimensions:**

- Overall width:  $\phi .322$
- Mounting hole diameter:  $\phi .242$
- Mounting hole offset:  $.079 \pm .015$
- Body thickness:  $.024$
- Total height:  $.769 \pm .020$
- Pin diameter:  $.035 \pm .010$
- Overall pin width:  $\phi .392$

**Labels and Markings:**

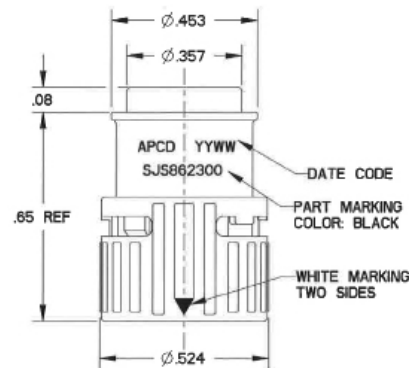
- DATE CODE: APCD YYWW SJS830250
- WHITE MARKING TWO SIDES
- WHITE MARKING .040 HIGH CHARACTERS COLOR: CONTRASTING
- Top view labels: A, B
- Top view dimension:  $.102 \text{ REF}$

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                              |  |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-------------------------------------|--|
| SJS840310 | None          |              |               | 8          | A   | White | SJS840310   | SJS840300<br>SJS803730<br>SJS840320 |  |
| SJS840311 | 3             | 16           | M39029/57-358 |            |     |       |             |                                     |  |
| SJS840340 | None          |              |               |            | B   | Black | SJS840340   | SJS840350<br>SJS840330<br>SJS803130 |  |
| SJS840341 | 3             | 16           | M39029/57-358 |            |     |       |             |                                     |  |



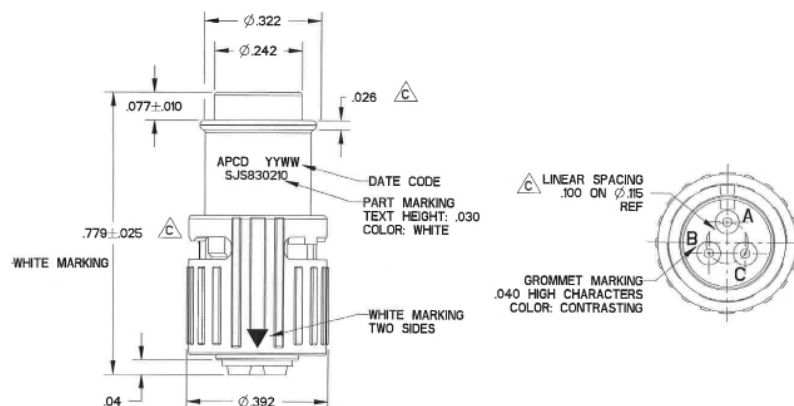
## 3 Position, Size 20 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|-------------|------------|-----|-------|-------------|------------------------|
| SJS862300 | None          |              |             | 7          | -   | White | SJS862300   | SJS862400<br>SJS862450 |
| SJS862301 | 12            | 22           | 455862300   |            |     |       |             |                        |



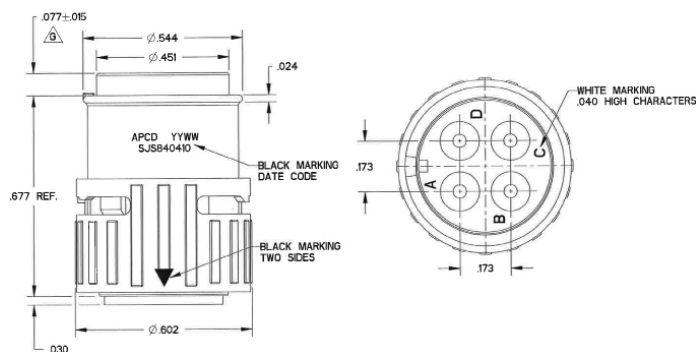
## 3 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                              |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-------------------------------------|
| SJS830210 | None          |              |               | 5          | -   | Black | SJS830210   | SJS830230<br>SJS503170<br>SJS503190 |
| SJS830211 | 25            | 22           | M39029/57-354 |            |     |       |             |                                     |



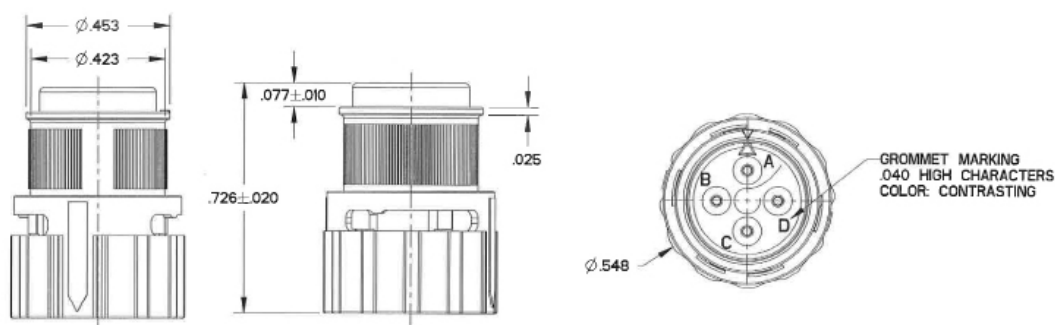
## 4 Position, Size 16 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                                                        |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|---------------------------------------------------------------|
| SJS840410 | None          |              |               | 8          | A   | White | SJS840410   | SJS840400<br>SJS804730<br>SJS840420<br>SJS804760<br>SJS804790 |
| SJS840411 | 4             | 16           | M39029/57-358 |            |     |       |             |                                                               |
| SJS840440 | None          |              |               | 8          | B   | White | SJS840440   | SJS840450<br>SJS840430                                        |
| SJS840441 | 4             | 16           | M39029/57-358 |            |     |       |             |                                                               |



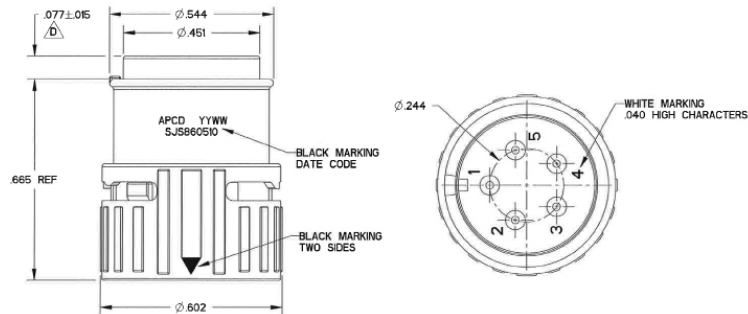
## 4 Position, Size 20 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS704110 | None          |              |               | 7          | -   | Black | SJS704110   | SJS704120 |
| SJS704111 | 4             | 20           | M39029/57-357 |            |     |       |             |           |



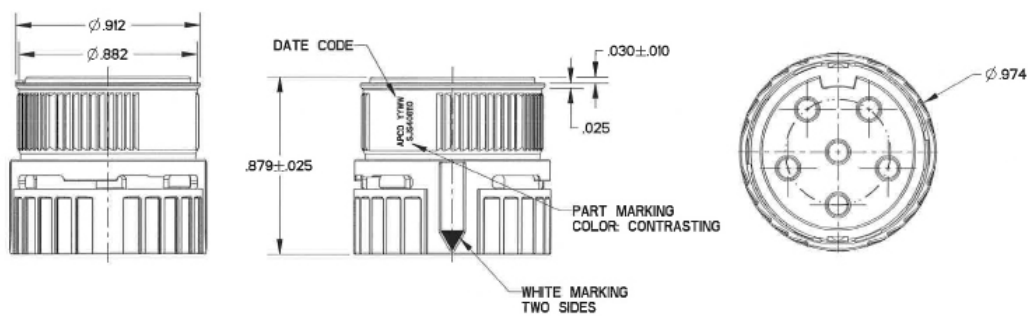
## 5 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                              |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-------------------------------------|
| SJS860510 | None          |              |               | 8          | -   | White | SJS860510   | SJS860500<br>SJS860520<br>SJS805730 |
| SJS860511 | 5             | 22           | M39029/57-354 |            |     |       |             |                                     |
| SJS870510 | None          |              |               | 8          | -   | White | SJS870510   | SJS870520                           |
| SJS870511 | 5             | 22           | M39029/58-360 |            |     |       |             |                                     |



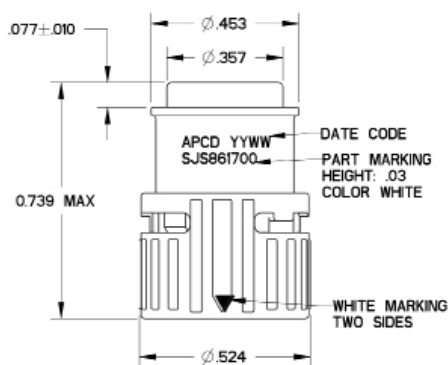
## 6 Position, Size 12 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS406110 | None          |              |               | 14         | -   | Black | SJS406110   | SJS406120 |
| SJS406111 | 6             | 12           | M39029/57-359 |            |     |       |             |           |



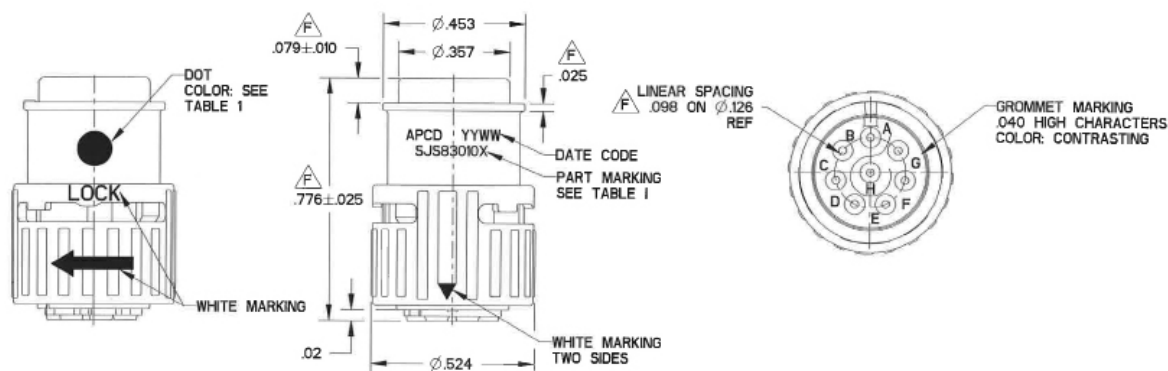
## 6 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------------------|
| SJS861700 | None          |              |               | 7          | -   | Black | SJS861700   | SJS861800<br>SJS706160 |
| SJS861701 | 6             | 22           | M39029/57-354 |            |     |       |             |                        |



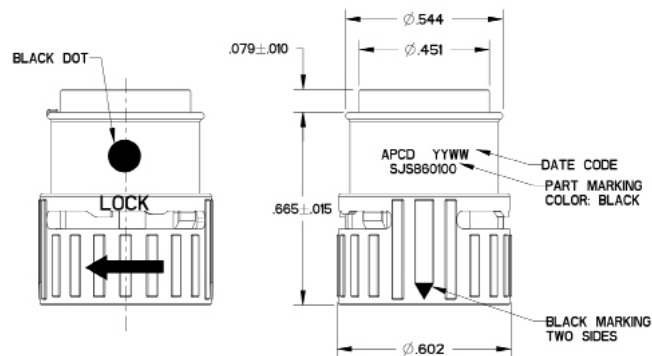
## 8 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating                                                        |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|---------------------------------------------------------------|
| SJS830100 | None          |              |               | 7          | A   | Black  | SJS830100   | SJS830200<br>SJS830220<br>SJS708160<br>SJS708170<br>SJS708190 |
| SJS831100 | 8             | 22           | M39029/57-357 |            |     |        |             |                                                               |
| SJS830101 | None          |              |               |            | B   | Green  | SJS830101   | SJS830201<br>SJS830221                                        |
| SJS831101 | 8             | 22           | M39029/57-357 |            |     |        |             |                                                               |
| SJS830102 | None          |              |               |            | C   | Yellow | SJS830102   | SJS830202<br>SJS830222                                        |
| SJS831102 | 8             | 22           | M39029/57-357 |            |     |        |             |                                                               |



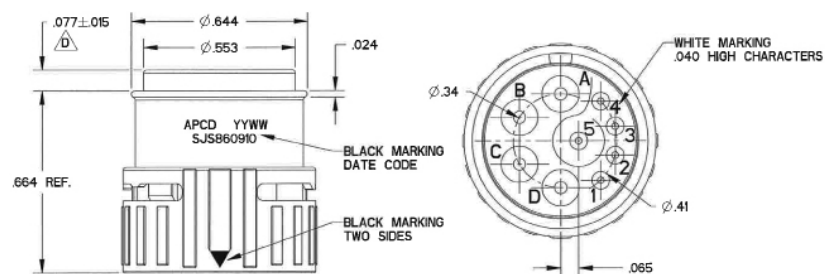
## 9 Position, Size 16/22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------------------|
| SJS860100 | 8             | 22           | M39029/57-354 | 8          | -   | White | SJS860100   | SJS860200<br>SJS8AC730 |
| SJS860101 |               | 16           | M39029/57-358 |            |     |       |             |                        |



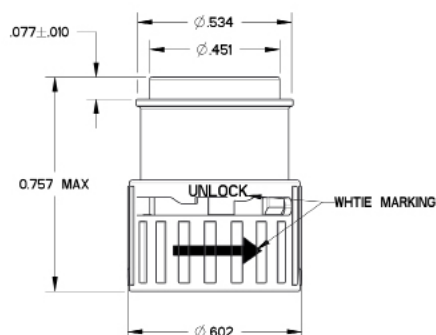
## 9 Position, Size 16/22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------------------|
| SJS860910 | None          |              |               | 10         | -   | White | SJS860910   | SJS860900<br>SJS0AC730 |
| SJS860911 | 5             | 22           | M39029/57-354 |            |     |       |             |                        |
|           | 4             | 16           | M39029/57-358 |            |     |       |             |                        |



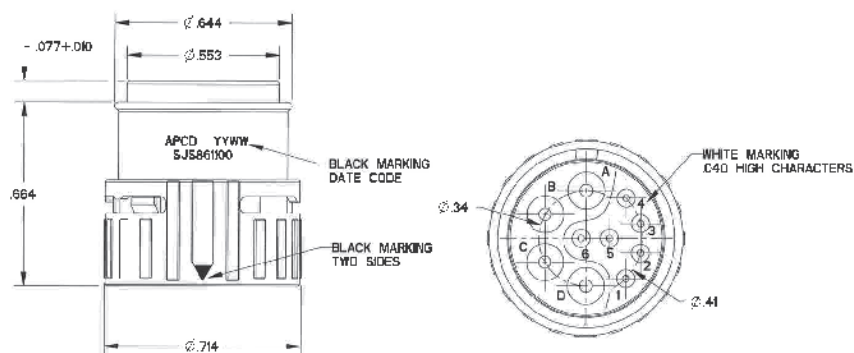
## 9 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------------------|
| SJS862100 | None          |              |               | 8          | -   | Black | SJS862100   | SJS862200<br>SJS809130 |
| SJS862101 | 9             | 22           | M39029/57-354 |            |     |       |             |                        |



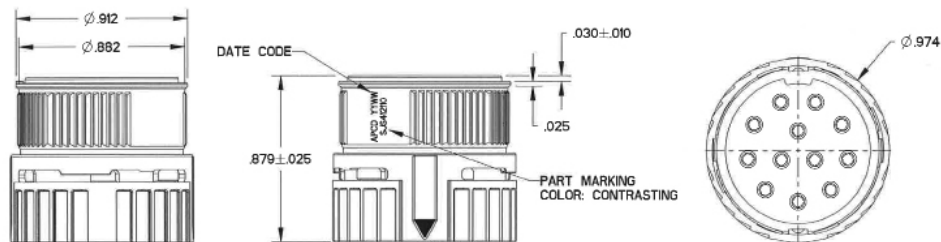
## 10 Position, Size 16/22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS861100 | None          |              |               | 10         | -   | White | SJS861100   | SJS861200 |
| SJS861101 | 6             | 22           | M39029/57-354 |            |     |       |             |           |
|           | 4             | 16           | M39029/57-358 |            |     |       |             |           |



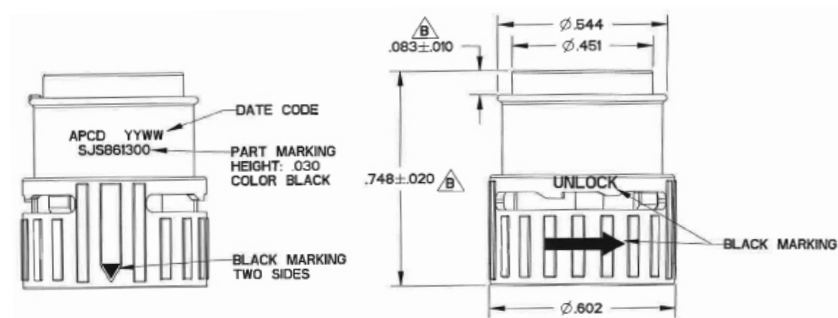
## 12 Position, Size 16 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS412110 | None          |              |               | 14         | -   | Black | SJS412110   | SJS412120 |
| SJS412111 | 12            | 16           | M39029/57-358 |            |     |       |             |           |



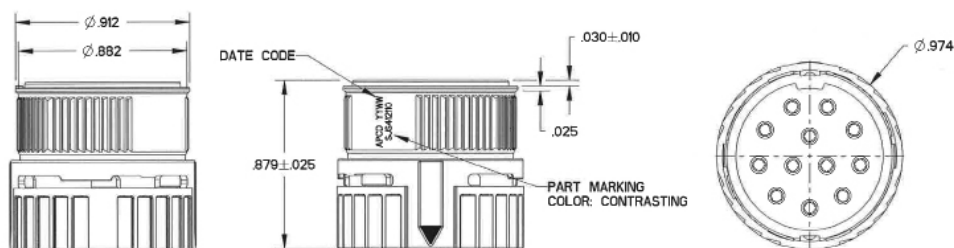
## 12 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS861300 | None          |              |               | 8          | -   | White | SJS861300   | SJS861400 |
| SJS861301 | 12            | 22           | M39029/57-354 |            |     |       |             |           |



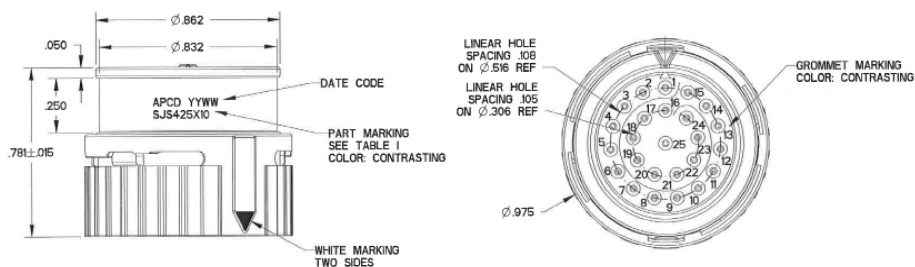
## 12 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|------------------------|
| SJS112110 | None          |              |               | 11         | A   | Black  | SJS112110   | SJS112120<br>SJS112160 |
| SJS112111 | 12            | 22           | M39029/57-354 |            |     |        |             |                        |
| SJS112210 | None          |              |               |            | B   | Green  | SJS112210   | SJS112220<br>SJS112260 |
| SJS112211 | 12            | 22           | M39029/57-354 |            |     |        |             |                        |
| SJS112310 | None          |              |               |            | C   | White  | SJS112310   | SJS112320<br>SJS112360 |
| SJS112311 | 12            | 22           | M39029/57-354 |            |     |        |             |                        |
| SJS112410 | None          |              |               |            | D   | Yellow | SJS112410   | SJS112420<br>SJS112460 |
| SJS112411 | 12            | 22           | M39029/57-354 |            |     |        |             |                        |



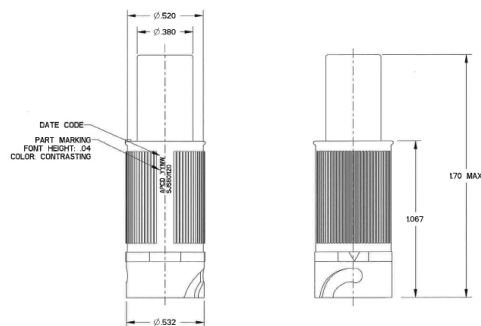
## 25 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|------------------------|
| SJS425110 | None          |              |               | 14         | A   | Black  | SJS425110   | SJS425120<br>SJS425160 |
| SJS425111 | 25            | 22           | M39029/57-354 |            |     |        |             |                        |
| SJS425210 | None          |              |               |            | B   | Green  | SJS425210   | SJS425220<br>SJS425260 |
| SJS425211 | 25            | 22           | M39029/57-354 |            |     |        |             |                        |
| SJS425310 | None          |              |               |            | C   | White  | SJS425310   | SJS425320<br>SJS425360 |
| SJS425311 | 25            | 22           | M39029/57-354 |            |     |        |             |                        |
| SJS425410 | None          |              |               |            | D   | Yellow | SJS425410   | SJS425420<br>SJS425460 |
| SJS425411 | 25            | 22           | M39029/57-354 |            |     |        |             |                        |



## 1 Position, Quadrax Inline Receptacle

| APCD P/N     | Contact Type        | Contact P/N | Shell Size | Key | Color | P/N Marking | Mating       |
|--------------|---------------------|-------------|------------|-----|-------|-------------|--------------|
| SJS801120    | None                |             | 8          | -   | Black | SJS801110P  | SJS801110    |
| SJS801120-1  | Power               | CNS808100   |            |     |       |             | SJS801110-1  |
| SJS801120-2  | Differential Twinax | CNS882100   |            |     |       |             | SJS801110-2  |
| SJS801120-3  |                     | CNS882110   |            |     |       |             | SJS801110-3  |
| SJS801120-4  |                     | CNS882120   |            |     |       |             | SJS801110-4  |
| SJS801120-5  |                     | CNS882130   |            |     |       |             | SJS801110-5  |
| SJS801120-6  |                     | CNS882140   |            |     |       |             | SJS801110-6  |
| SJS801120-7  |                     | CNS882150   |            |     |       |             | SJS801110-7  |
| SJS801120-8  | Quadrax             | CNS882200   |            |     |       |             | SJS801110-8  |
| SJS80112P-9  |                     | CNS882210   |            |     |       |             | SJS801110-9  |
| SJS801120-10 |                     | CNS882220   |            |     |       |             | SJS801110-10 |
| SJS801120-11 |                     | CNS882230   |            |     |       |             | SJS801110-11 |
| SJS801120-12 |                     | CNS882240   |            |     |       |             | SJS801110-12 |
| SJS801120-13 |                     | CNS882250   |            |     |       |             | SJS801110-13 |

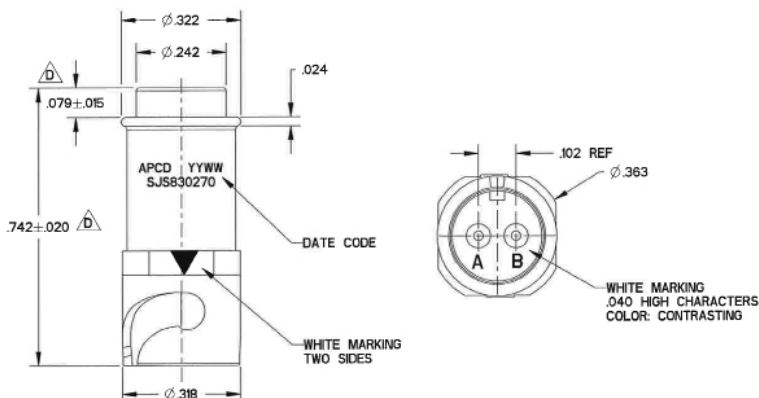


## Inline Receptacle

| Type | Part Number | Position | Size    | Page |
|------|-------------|----------|---------|------|
|      | SJS830270   | 2        | 22      |      |
|      | SJS840300   | 3        | 16      |      |
|      | SJS862400   | 3        | 20      |      |
|      | SJS830230   | 3        | 22      |      |
|      | SJS840400   | 4        | 16      |      |
|      | SJS104120   | 4        | 16      |      |
|      | SJS704120   | 4        | 20      |      |
|      | SJS860500   | 5        | 22      |      |
|      | SJS406120   | 6        | 12      |      |
|      | SJS861800   | 6        | 22      |      |
|      | SJS830200   | 8        | 22      |      |
|      | SJS860200   | 9        | 16 & 22 |      |
|      | SJS860900   | 9        | 16 & 22 |      |
|      | SJS862200   | 9        | 22      |      |
|      | SJS861200   | 10       | 16 & 22 |      |
|      | SJS412120   | 12       | 16      |      |
|      | SJS861400   | 12       | 22      |      |
|      | SJS112120   | 12       | 22      |      |
|      | SJS425120   | 25       | 22      |      |

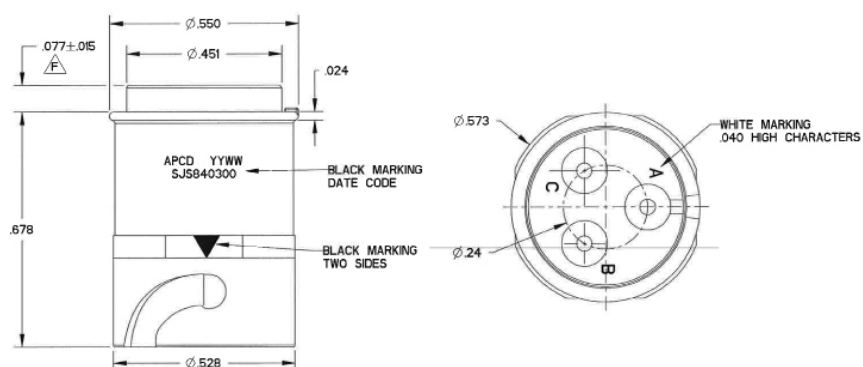
## 2 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS830270 | None          |              |               | 5          | -   | Black | SJS830270   | SJS830250 |
| SJSB30271 | 2             | 22           | M39029/58-360 |            |     |       |             |           |



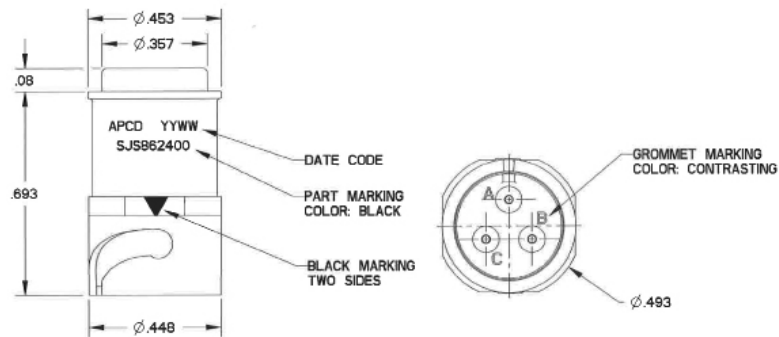
## 3 Position, Size 16 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS840300 | None          |              |               | 8          | A   | White | SJS840300   | SJS840310 |
| SJS840301 | 3             | 16           | M39029/58-364 |            |     |       |             |           |
| SJS840350 | None          |              |               | 8          | B   | Black | SJS840350   | SJS840340 |
| SJS840351 | 3             | 16           | M39029/58-364 |            |     |       |             |           |



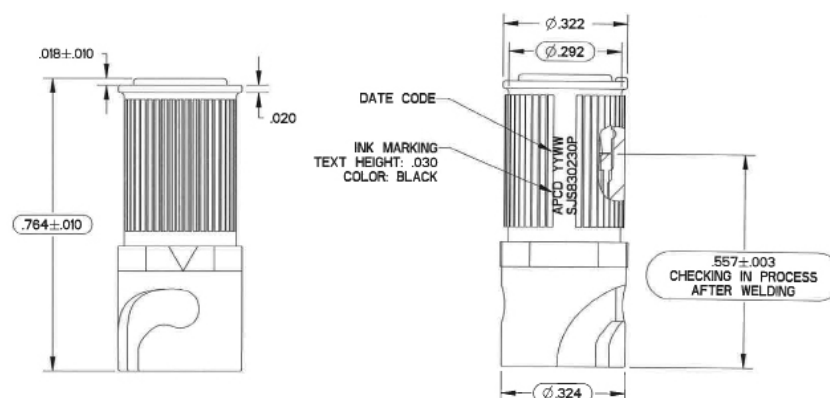
## 3 Position, Size 20 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N  | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|--------------|------------|-----|-------|-------------|-----------|
| SJS862400 | None          |              |              | 7          | -   | White | SJS862400   | SJS862300 |
| SJS862401 | 3             | 20           | M39029/58-36 |            |     |       |             |           |



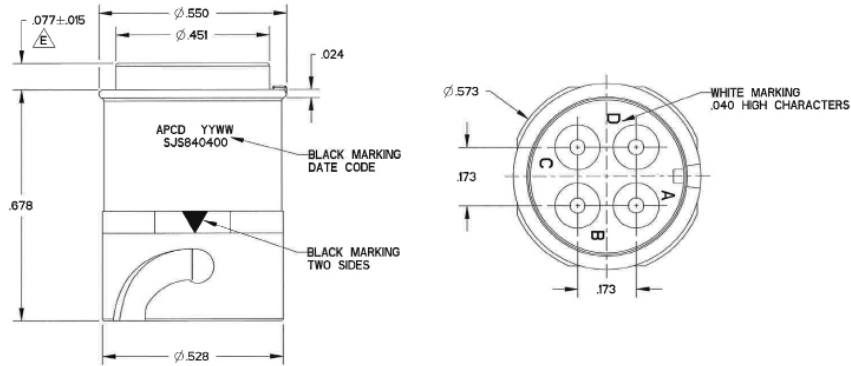
## 3 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS830230 | None          |              |               | 5          | -   | Black | SJS830230   | SJS830210 |
| SJS830230 | 3             | 22           | M39029/58-360 |            |     |       |             |           |



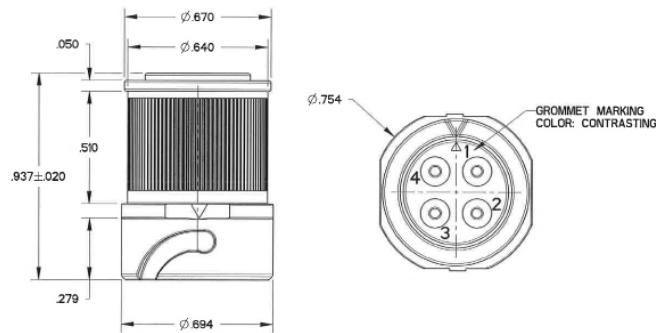
## 4 Position, Size 16 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS840400 | None          |              |               | 8          | A   | White | SJS840400   | SJS840410 |
| SJS840401 | 4             |              | M39029/58-364 |            |     |       |             |           |
| SJS840450 | None          |              |               | 8          | B   | White | SJS840450   | SJS840440 |
| SJS840451 | 4             | 16           |               |            |     |       |             |           |



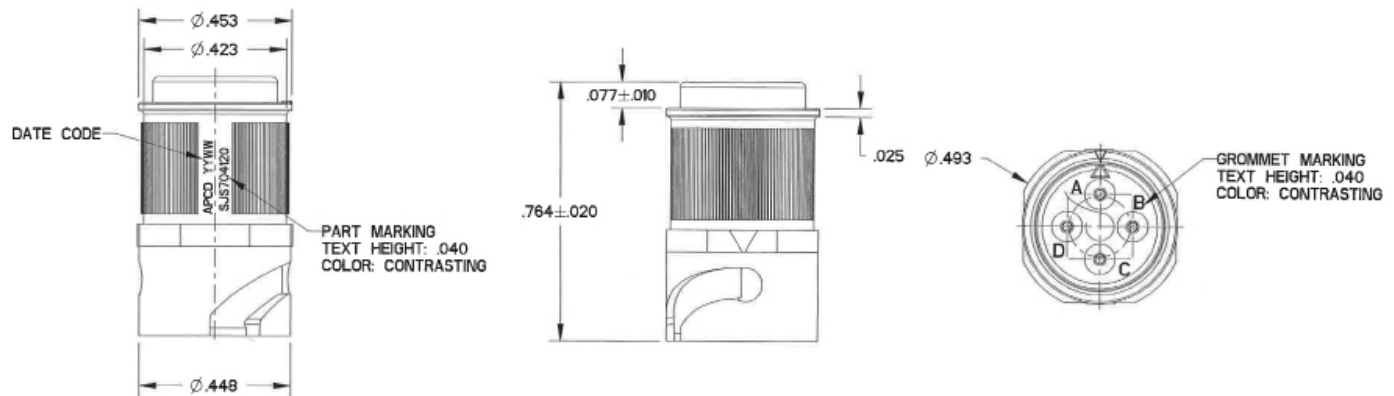
## 4 Position, Size 16 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating     |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------|
| SJS104120 | None          |              |               | 11         | -   | Black | SJS104120   | SJSB104110 |
| SJS104121 | 4             | 16           | M39029/58-364 |            |     |       |             |            |



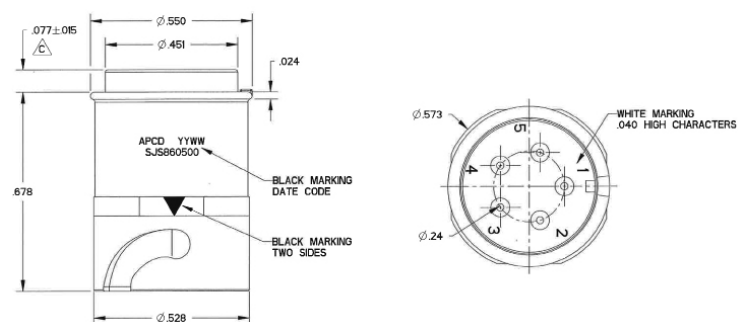
## 4 Position, Size 20 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS704120 | None          |              |               | 7          | -   | Black | SJS704120   | SJS704110 |
| SJS704121 | 4             | 20           | M39029/58-360 |            |     |       |             |           |



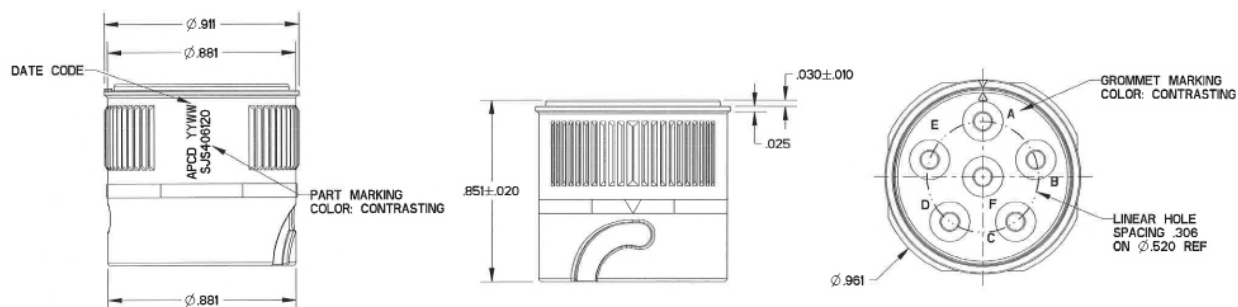
## 5 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS860500 | None          |              |               | 8          | -   | White | SJS860500   | SJS860510 |
| SJS860501 | 5             | 22           | M39029/58-360 |            |     |       |             |           |



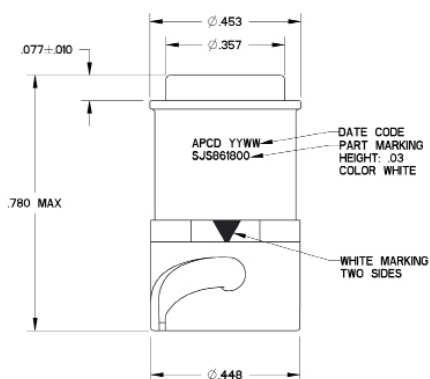
## 6 Position, Size 12 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS406120 | None          |              |               | 14         | -   | Black | SJS406120   | SJS406110 |
| SJS406121 | 6             | 12           | M39029/58-365 |            |     |       |             |           |



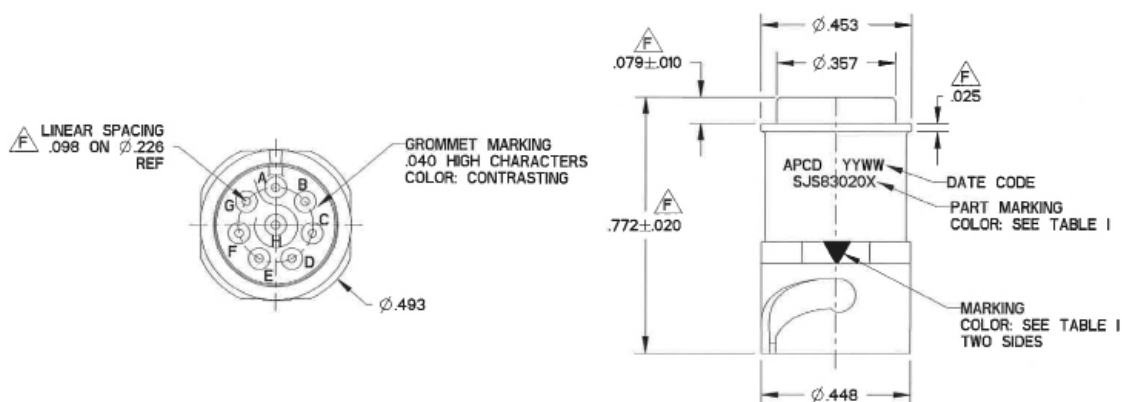
## 6 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS861800 | None          |              |               | 7          | -   | Black | SJS861800   | SJS861700 |
| SJS861801 | 6             | 22           | M39029/58-360 |            |     |       |             |           |



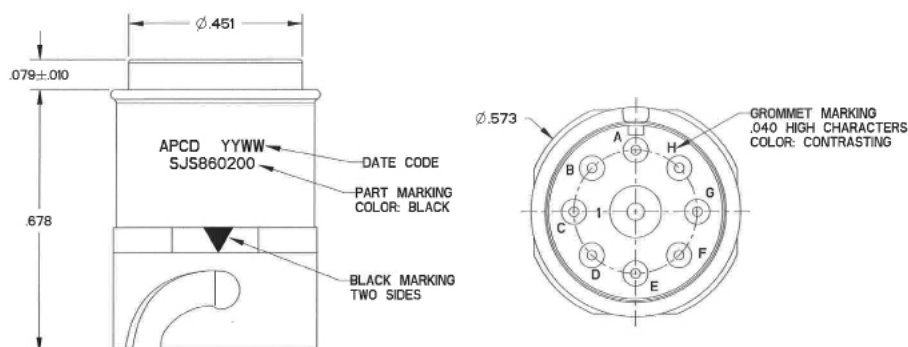
## 8 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|-----------|
| SJS830200 | None          |              |               | 7          | A   | Black  | SJS830200   | SJS830100 |
| SJS831200 | 8             | 22           | M39029/58-360 |            |     |        |             |           |
| SJS830201 | None          |              |               |            | B   | Green  | SJS830201   | SJS830101 |
| SJS831201 | 8             | 22           | M39029/58-360 |            |     |        |             |           |
| SJS830202 | None          |              |               |            | C   | Yellow | SJS830202   | SJS830102 |
| SJS831202 | 8             | 22           | M39029/58-360 |            |     |        |             |           |



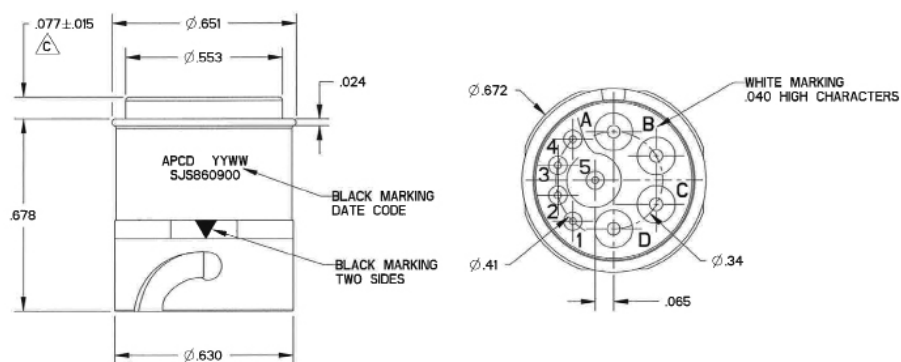
## 9 Position, Size 16/22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS860200 | None          |              |               | 8          | -   | White | SJS860200   | SJS860100 |
| SJS860201 | 8             | 22           | M39029/58-360 |            |     |       |             |           |
|           | 1             | 16           | M39029/58-364 |            |     |       |             |           |



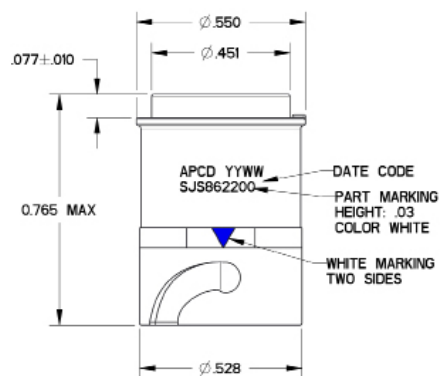
## 9 Position, Size 16/22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS860900 | None          |              |               | 10         | -   | White | SJS860900   | SJS860910 |
| SJS860901 | 5             | 22           | M39029/58-360 |            |     |       |             |           |
|           | 4             | 16           | M39029/58-364 |            |     |       |             |           |



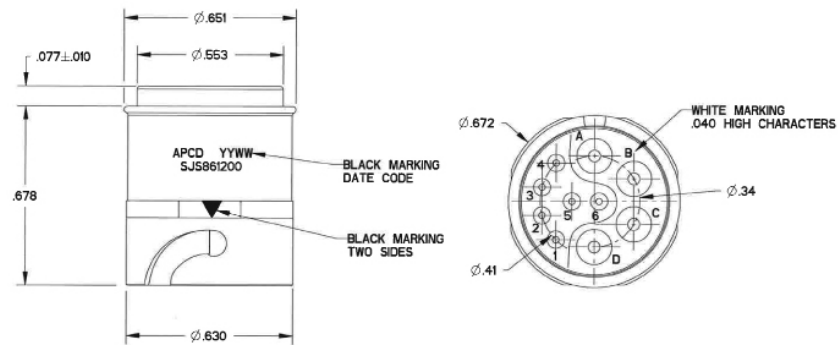
## 9 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS862200 | None          |              |               | 8          | -   | Black | SJS862200   | SJS862100 |
| SJS862201 | 9             | 22           | M39029/58-360 |            |     |       |             |           |



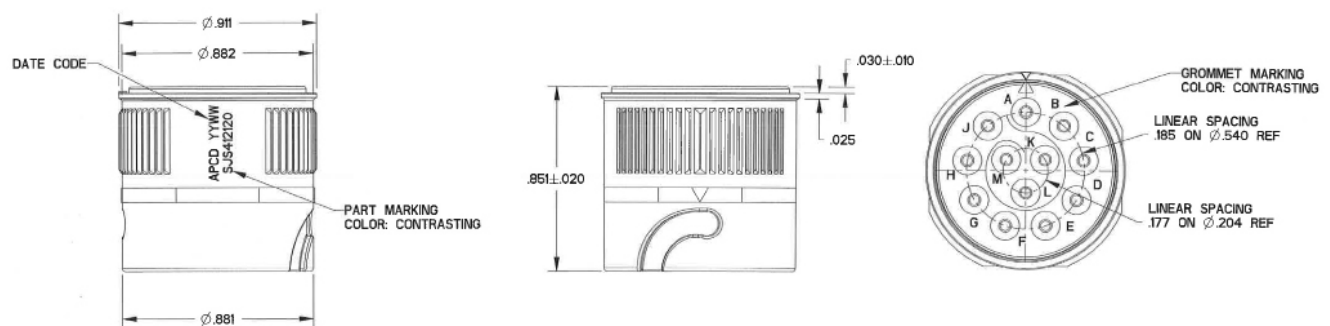
## 10 Position, Size 16/22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS861200 | None          |              |               | 10         | -   | White | SJS861200   | SJS861100 |
| SJS861201 | 6             | 22           | M39029/58-360 |            |     |       |             |           |
|           | 4             | 16           | M39029/58-364 |            |     |       |             |           |



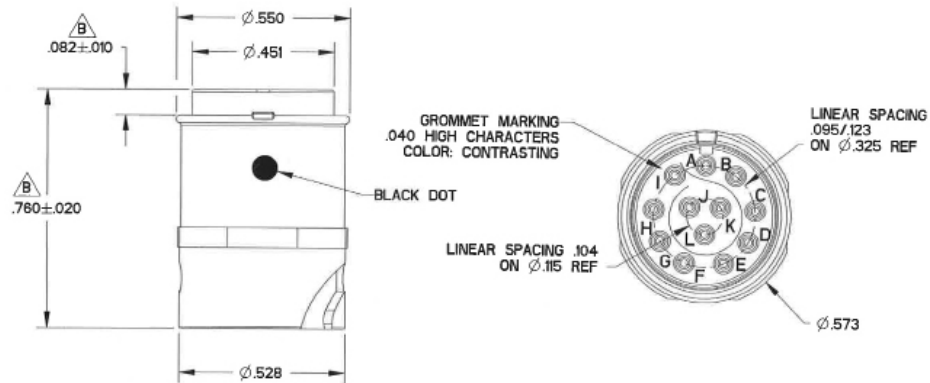
## 12 Position, Size 16 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS412120 | None          |              |               | 14         | -   | Black | SJS412120   | SJS412110 |
| SJS412121 | 8             | 16           | M39029/58-364 |            |     |       |             |           |



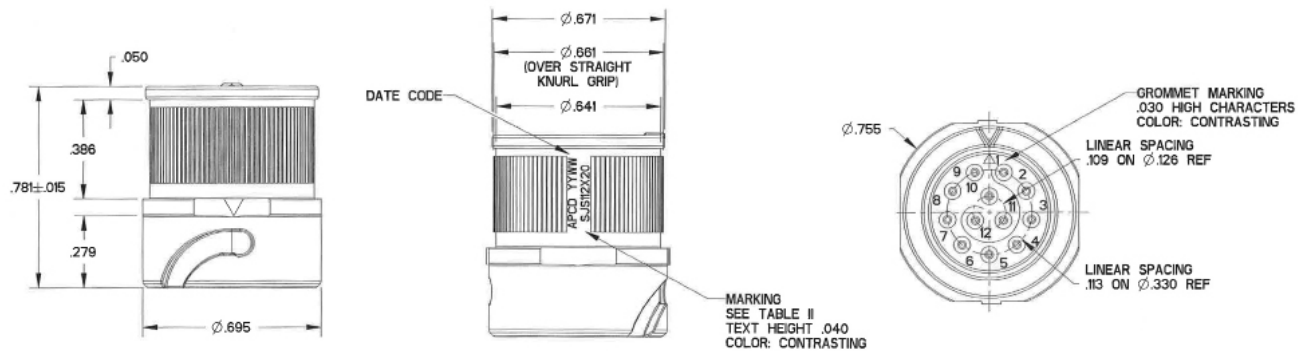
## 12 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS861400 | None          |              |               | 8          | -   | White | SJS861400   | SJS861300 |
| SJS861400 | 12            | 22           | M39029/58-360 |            |     |       |             |           |



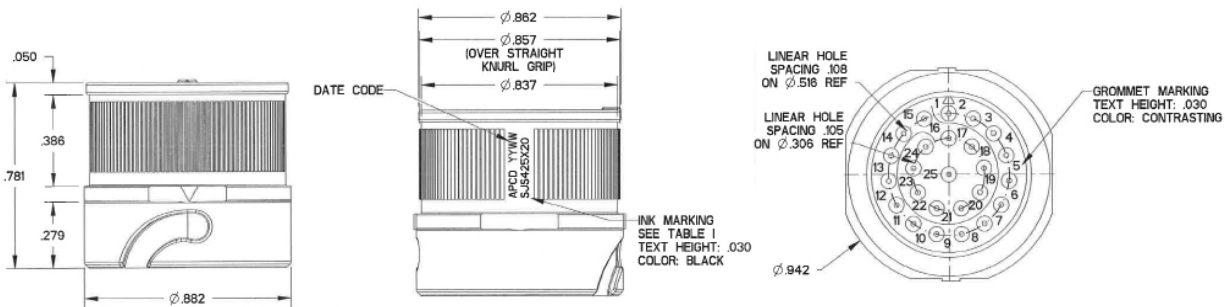
## 12 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|-----------|
| SJS112120 | None          |              |               | 11         | A   | Black  | SJS112120   | SJS112110 |
| SJS112121 | 6             | 22           | M39029/58-365 |            |     |        |             |           |
| SJS112220 | None          |              |               |            | B   | Green  | SJS112220   | SJS112210 |
| SJS112221 | 6             | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112320 | None          |              |               |            | C   | White  | SJS112320   | SJS112310 |
| SJS112321 | 6             | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112420 | None          |              |               |            | D   | Yellow | SJS112420   | SJS112410 |
| SJS112421 | 6             | 22           | M39029/58-360 |            |     |        |             |           |



25 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|-----------|
| SJS425120 | None          |              |               | 14         | A   | Black  | SJS425120   | SJS425110 |
| SJS425121 | 25            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS425220 | None          |              |               |            | B   | Green  | SJS425220   | SJS425210 |
| SJS425221 | 25            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS425320 | None          |              |               |            | C   | White  | SJS425320   | SJS425310 |
| SJS425321 | 25            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS425420 | None          |              |               |            | D   | Yellow | SJS425420   | SJS425410 |
| SJS425421 | 25            | 22           | M39029/58-360 |            |     |        |             |           |



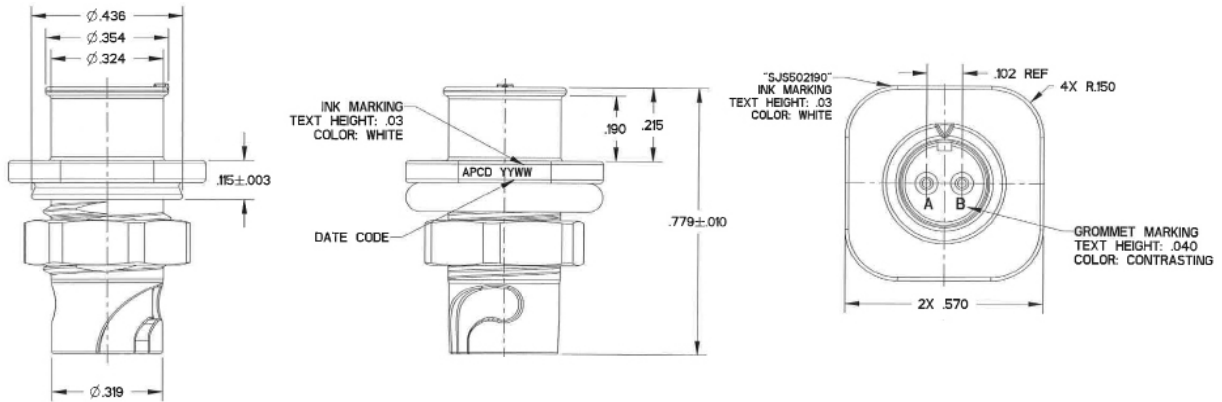
Jamnut Rear Receptacle

| Type | Part Number | Position | Size   | Page |
|------|-------------|----------|--------|------|
|      | SJS502190   | 2        | 22     |      |
|      | SJS503190   | 3        | 22     |      |
|      | SJS804790   | 4        | 16     |      |
|      | SJS708190   | 8        | 22/22D |      |

# JAMNUT REAR MOUNT RECEPTACLE

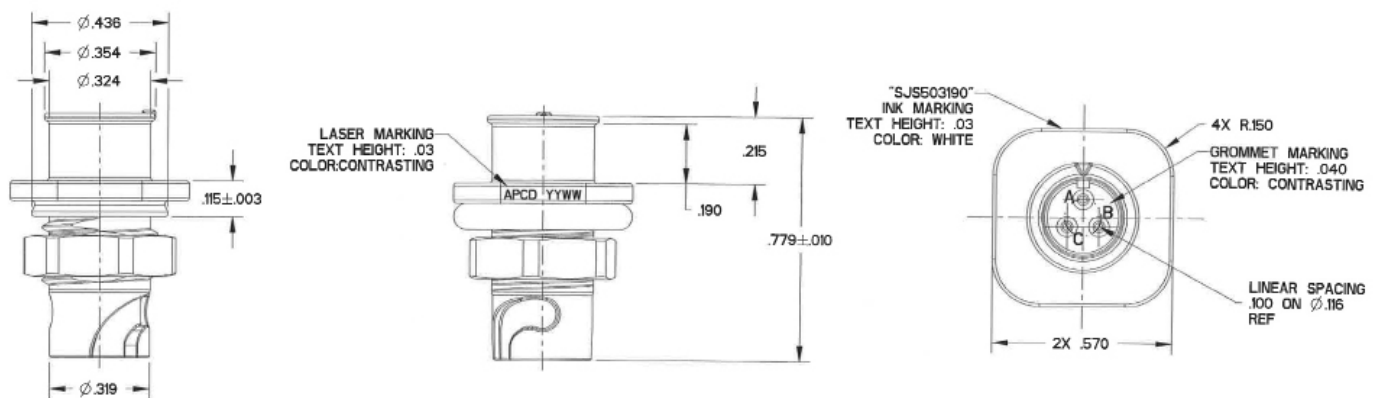
## 2 Position, Size 22 Jamnut Rear Mount Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS502190 | None          |              |               | 5          | -   | Black | SJS502190   | SJS830250 |
| SJS502191 | 2             | 22           | M39029/58-360 |            |     |       |             |           |



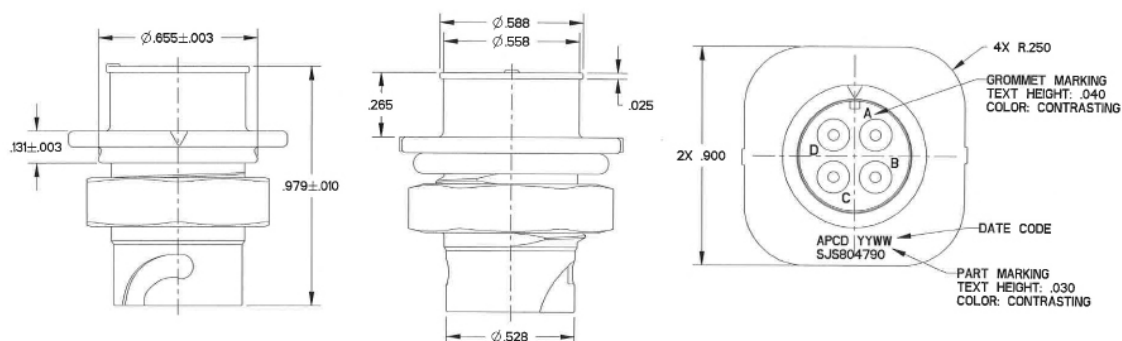
## 3 Position, Size 22 Jamnut Rear Mount Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS503190 | None          |              |               | 5          | -   | Black | SJS503190   | SJS830210 |
| SJS503191 | 3             | 22           | M39029/58-360 |            |     |       |             |           |



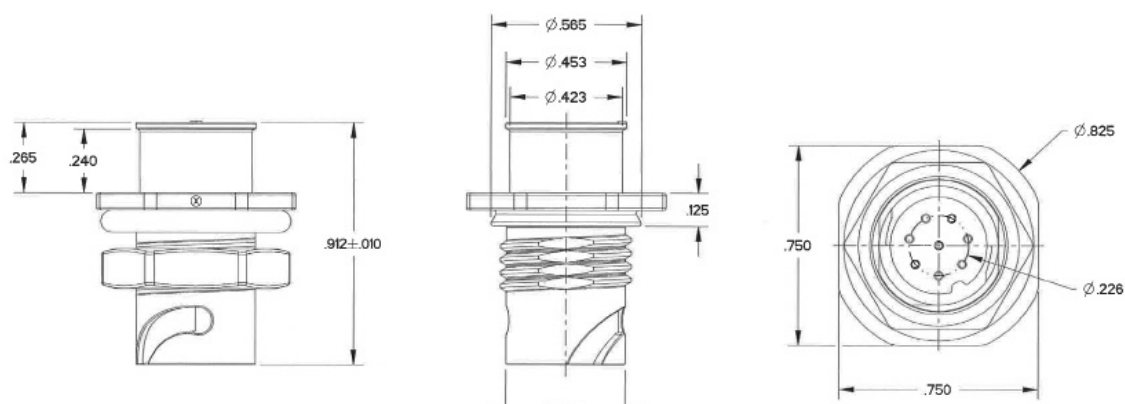
## 4 Position, Size 16 Jamnut Rear Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS804790 | None          |              |               | 8          | A   | White | SJ5804790   | SJS840410 |
| SJ5804791 | 4             | 16           | M39029/58-364 |            |     |       |             |           |



## 8 Position, Size 22/22D Jamnut Rear Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS708190 | None          |              |               | 7          | A   | Black | SJ5708190   | SJS830100 |
| SJS708191 | 8             | 22/22D       | M39029/58-360 |            |     |       |             |           |

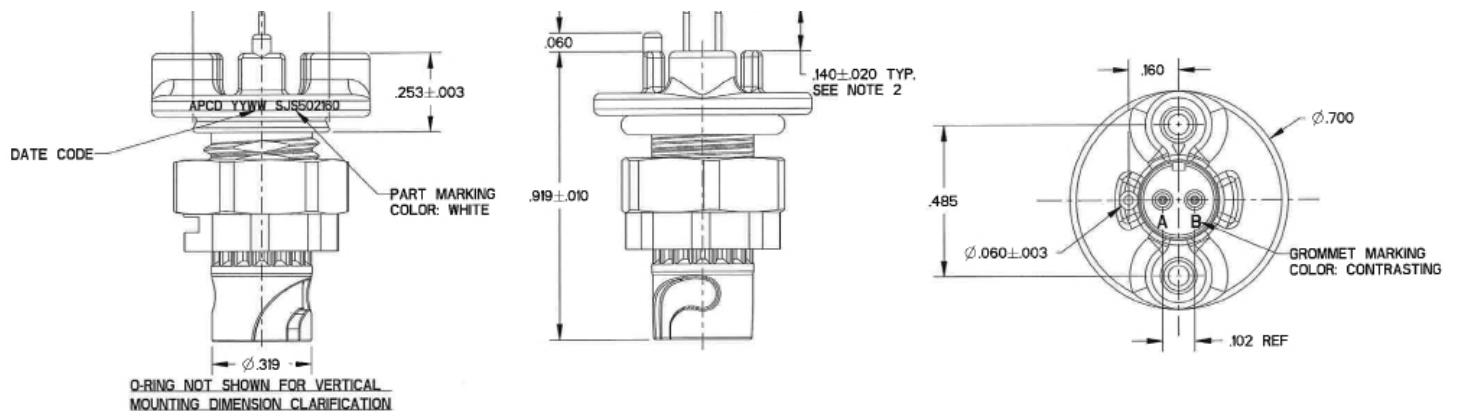


## Jamnut Receptacle

| Type | Part Number | Position | Size | Page |
|------|-------------|----------|------|------|
|      | SJS502160   | 2        | 22   |      |
|      | SJS503160   | 3        | 22   |      |
|      | SJS804760   | 4        | 16   |      |
|      | SJS706160   | 6        | 22   |      |
|      | SJS708160   | 8        | 22   |      |
|      | SJS112160   | 12       | 22   |      |
|      | SJS425160   | 25       | 22   |      |

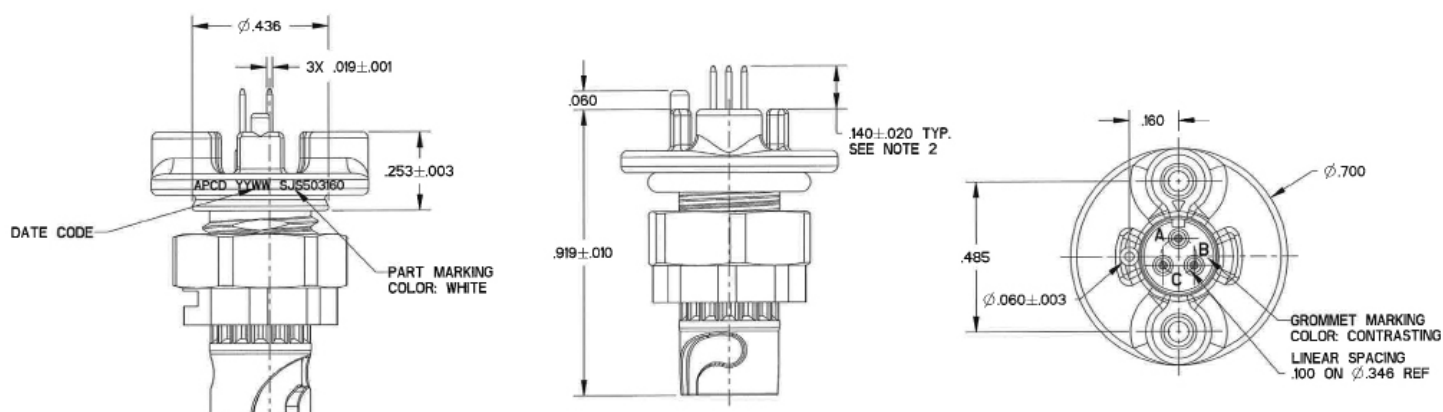
## 2 Position, Size 22 Jamnut Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS502160 | None          |              |               | 5          | -   | Black | SJS502160   | SJS830250 |
| SJS502161 | 2             | 22           | M39029/58-360 |            |     |       |             |           |
| SJS502162 | 2             | 22           | CNP831033     |            |     |       |             |           |



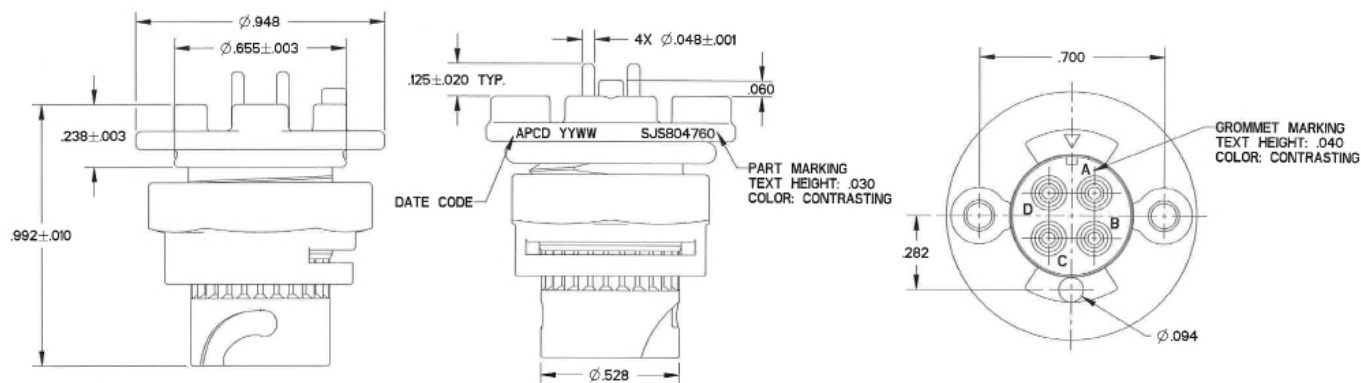
## 3 Position, Size 22 Jamnut Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS503160 |               |              |               | 5          | -   | Black | SJS503160   | SJS830210 |
| SJS503161 | 3             | 22           | M39029/58-360 |            |     |       |             |           |
| SJS503162 | 3             | 22           | CNP831033     |            |     |       |             |           |



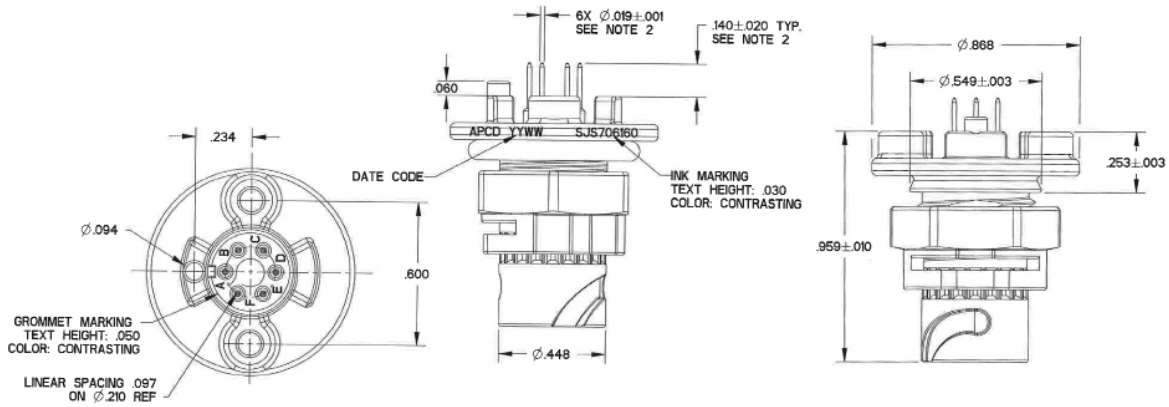
## 4 Position, Size 16 Jamnut Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS804760 |               | None         |               | 8          | A   | White | SJS804760   | SJS840410 |
| SJS804761 | 4             | 16           | M39029/58-364 |            |     |       |             |           |
| SJS804762 | 4             | 16           | CNP8310160    |            |     |       |             |           |



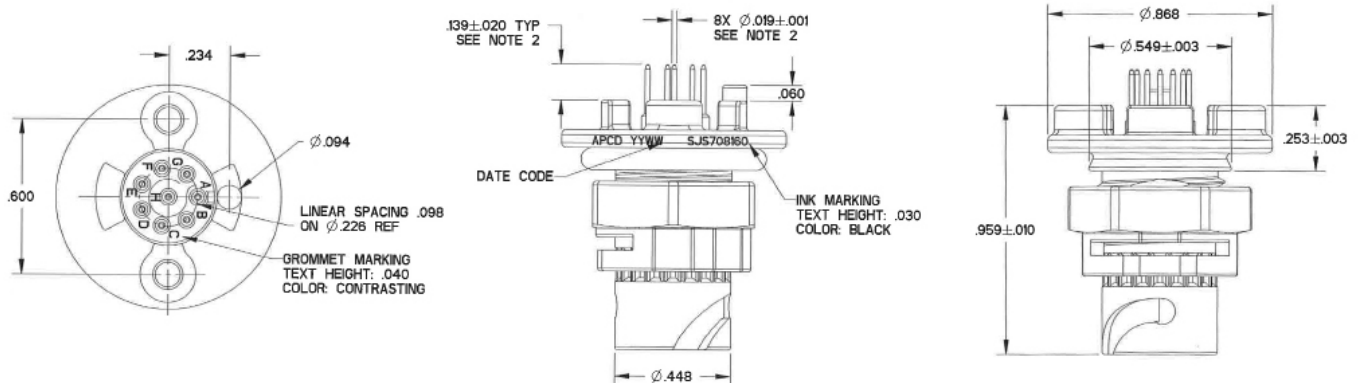
## 6 Position, Size 22 Jamnut Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS706160 | None          |              |               | 7          | -   | White | SJS706160   | SJS861700 |
| SJS706161 | 6             | 22           | M39029/58-360 |            |     |       |             |           |
| SJS706162 | 6             | 22           | CNP831033     |            |     |       |             |           |



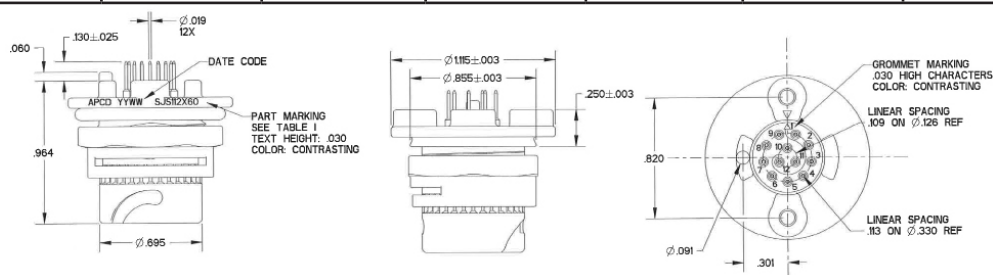
## 8 Position, Size 22 Jamnut Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS708160 | None          |              |               | 7          | A   | Black | SJS708160   | SJS830100 |
| SJS708161 | 8             | 22           | M39029/58-360 |            |     |       |             |           |
| SJS708162 | 8             | 22           | CNP831033     |            |     |       |             |           |



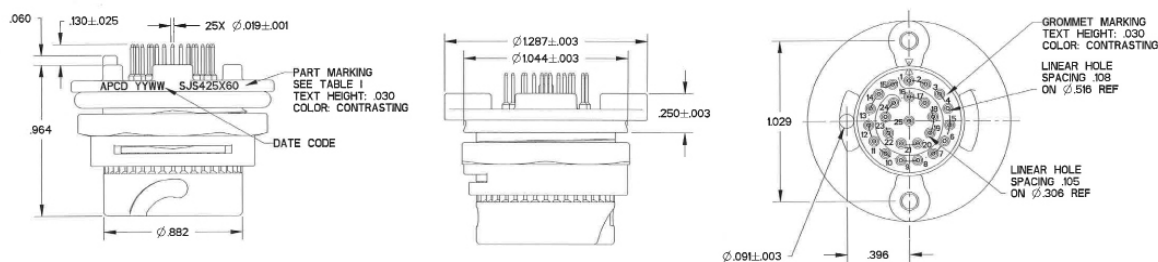
## 12 Position, Size 22 Jamnut Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|-----------|
| SJS112160 | None          |              |               | 11         | A   | Black  | SJS112160   | SJS112110 |
| SJS112161 | 12            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112162 | 12            | 22           | CNP831033     |            |     |        |             |           |
| SJS112260 | None          |              |               |            | B   | Green  | SJS112260   | SJS112210 |
| SJS112260 | 12            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112262 | 12            | 22           | CNP831033     |            |     |        |             |           |
| SJS112360 | None          |              |               |            | C   | White  | SJS112360   | SJS112310 |
| SJS112361 | 12            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112362 | 12            | 22           | CNP831033     |            |     |        |             |           |
| SJS112460 | None          |              |               |            | D   | Yellow | SJS112460   | SJS112410 |
| SJS112461 | 12            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112462 | 12            | 22           | CNP831033     |            |     |        |             |           |



## 25 Position, Size 22 Jamnut Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|-----------|
| SJS425160 | None          |              |               | 14         | A   | Black  | SJS425160   | SJS425110 |
| SJS425161 | 25            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS425162 | 25            | 22           | CNP831033     |            |     |        |             |           |
| SJS425260 | None          |              |               |            | B   | Green  | SJS425260   | SJS425210 |
| SJS425261 | 25            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS425262 | 25            | 22           | CNP831033     |            |     |        |             |           |
| SJS425360 | None          |              |               |            | C   | White  | SJS425360   | SJS425310 |
| SJS425361 | 25            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS425362 | 25            | 22           | CNP831033     |            |     |        |             |           |
| SJS425460 | None          |              |               |            | D   | Yellow | SJS425460   | SJS425410 |
| SJS425461 | 25            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS425462 | 25            | 22           | CNP831033     |            |     |        |             |           |

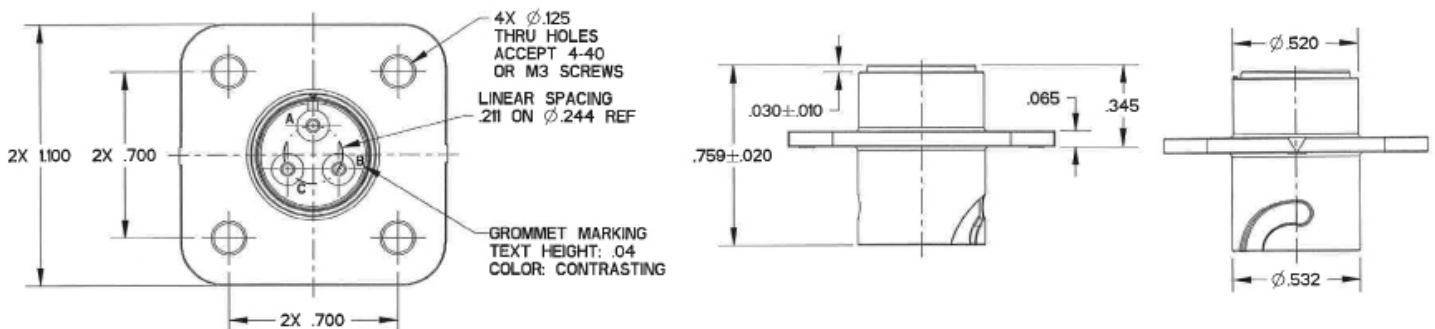


## Square Receptacle

| Type | Part Number | Position | Size    | Page |
|------|-------------|----------|---------|------|
|      | SJS803730   | 3        | 16      |      |
|      | SJS862450   | 3        | 20      |      |
|      | SJS804730   | 4        | 16      |      |
|      | SJS805730   | 5        | 22      |      |
|      | SJS830220   | 8        | 22      |      |
|      | SJS8AC730   | 9        | 16 & 22 |      |
|      | SJS0AA730   | 9        | 16 & 22 |      |
|      | SJS809130   | 9        | 22      |      |
|      | SJS812730   | 12       | 22      |      |

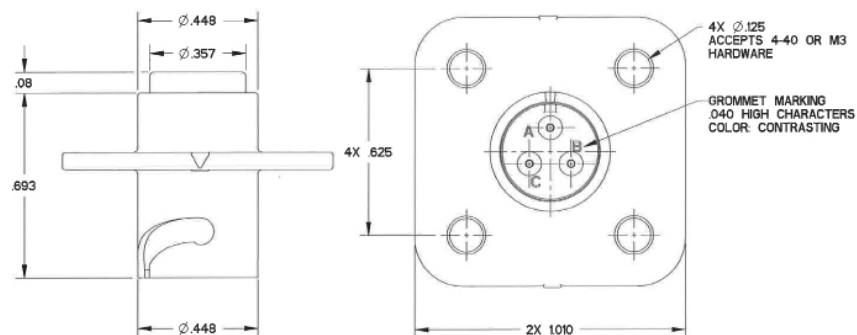
## 3 Position, Size 16 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS803730 | None          |              |               | 8          | A   | White | SJS803730   | SJS840310 |
| SJS903731 | 3             | 16           | M39029/58-364 |            |     |       |             |           |
| SJS803130 | None          |              |               |            | B   | Black | SJS803130   | SJS840340 |
| SJS503131 | 3             | 16           | M39029/58-364 |            |     |       |             |           |



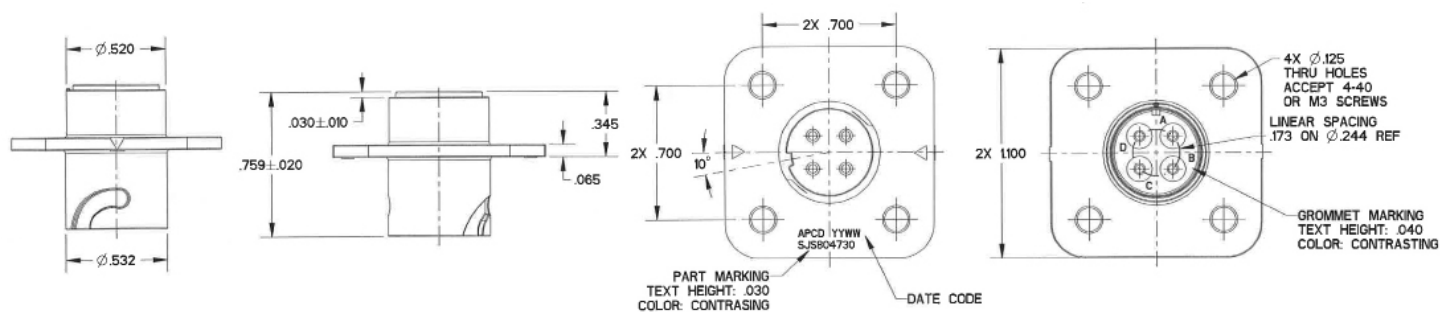
## 3 Position, Size 20 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N  | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|--------------|------------|-----|-------|-------------|-----------|
| SJS862450 | None          |              |              | 7          | -   | White | SJS862450   | SJS862300 |
| SJS862451 | 3             | 20           | M39029/58-36 |            |     |       |             |           |



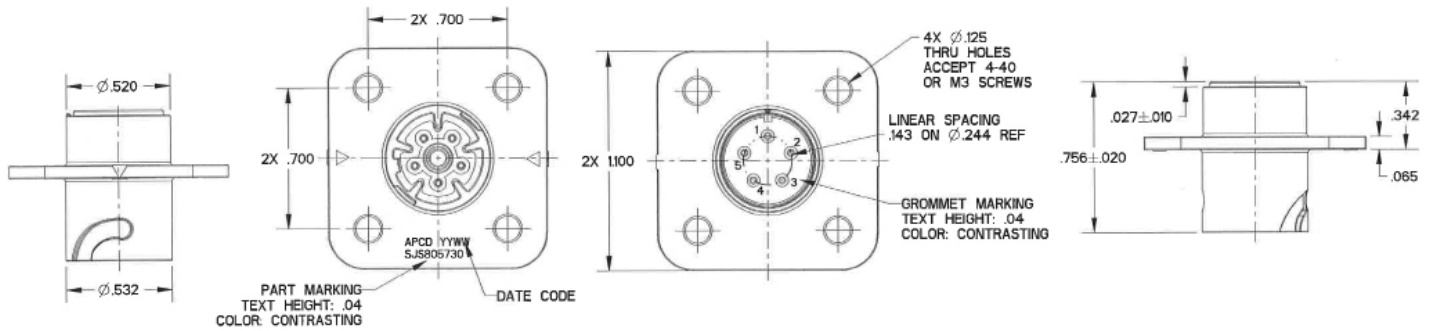
## 4 Position, Size 16 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS804730 | None          |              |               | 8          | A   | White | SJS804730   | SJS840410 |
| SJS804731 | 4             | 16           | M39029/58-364 |            |     |       |             |           |



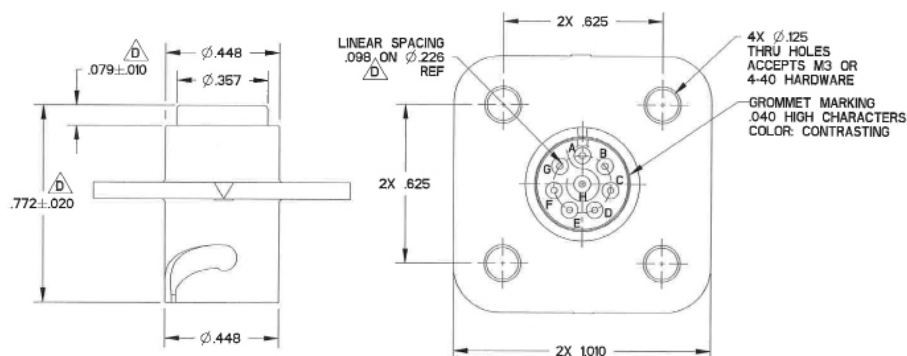
## 5 Position, Size 22 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS805730 | None          |              |               | 8          | -   | White | SJS805730   | SJS860510 |
| SJS805731 | 5             | 22           | M39029/58-360 |            |     |       |             |           |



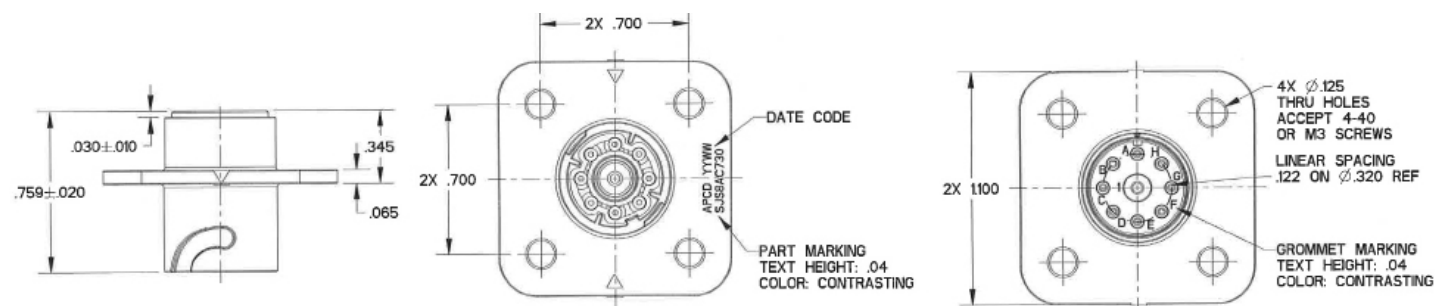
## 8 Position, Size 22 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color  | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|--------|-------------|-----------|
| SJS830220 | None          |              |               | 7          | A   | Black  | SJS830220   | SJS830100 |
| SJS831220 | 8             | 22           | M39029/58-360 |            |     |        |             |           |
| SJS830221 | None          |              |               |            | B   | Green  | SJS830221   | SJS830101 |
| SJS831221 | 8             | 22           | M39029/58-360 |            |     |        |             |           |
| SJS830222 | None          |              |               |            | C   | Yellow | SJS830222   | SJS830102 |
| SJS831222 | 8             | 22           | M39029/58-360 |            |     |        |             |           |



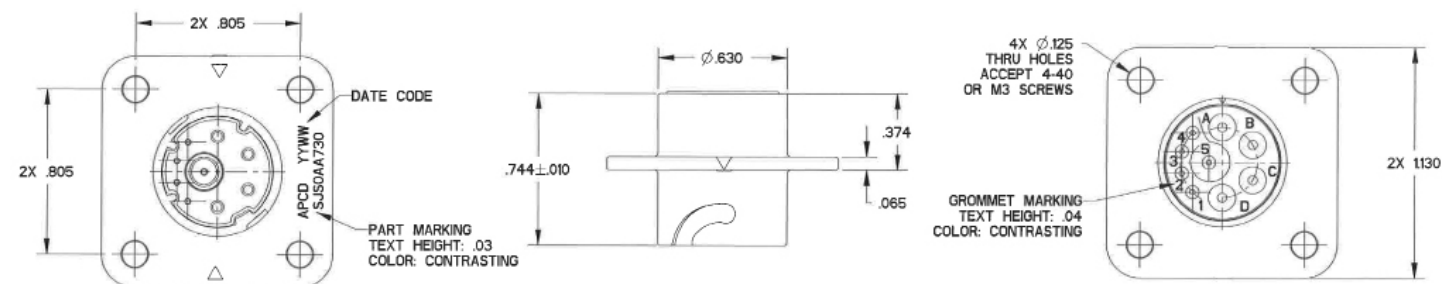
## 9 Position, Size 16/22 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS8AC730 | None          |              |               | 8          | -   | White | SJS8AC730   | SJS860100 |
| SJS8AC731 | 8             | 22/22D       | M39029/58-360 |            |     |       |             |           |
|           | 1             | 16           | M39029/58-364 |            |     |       |             |           |



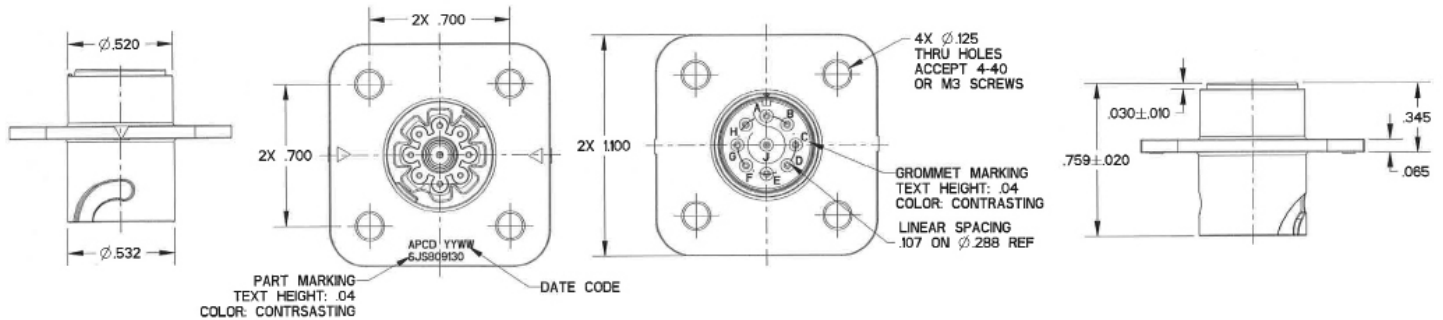
## 9 Position, Size 16/22 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS0AA730 | None          |              |               | 10         | -   | White | SJS0AA730   | SJS860910 |
| SJS0AA731 | 5             | 22/22D       | M39029/58-360 |            |     |       |             |           |
|           | 4             | 16           | M39029/58-364 |            |     |       |             |           |



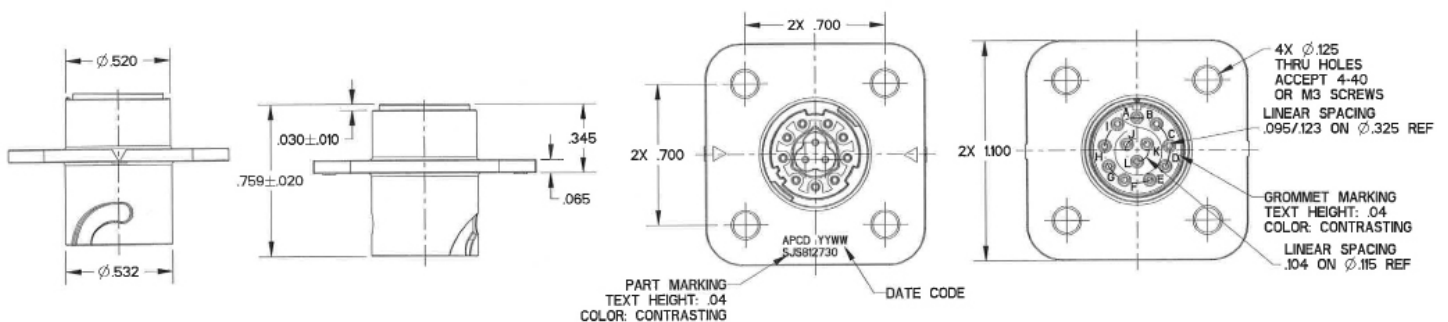
## 9 Position, Size 22 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS809130 | None          |              |               | 8          | -   | Black | SJS809130   | SJS862100 |
| SJS809131 | 9             | 22           | M39029/58-360 |            |     |       |             |           |



## 12 Position, Size 22 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS812730 | None          |              |               | 8          | -   | White | SJS812730   | SJS861300 |
| SJS812731 | 12            | 22           | M39029/58-360 |            |     |       |             |           |

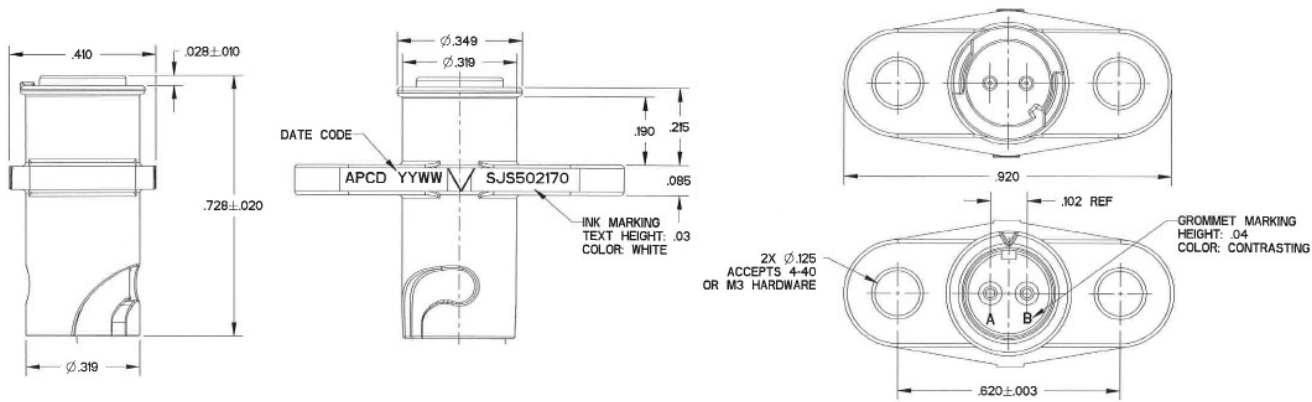


Oval Receptacle

| Type | Part Number | Position | Size | Page |
|------|-------------|----------|------|------|
|      | SJS502170   | 2        | 22   |      |
|      | SJS503170   | 3        | 22   |      |
|      | SJS708170   | 8        | 22   |      |

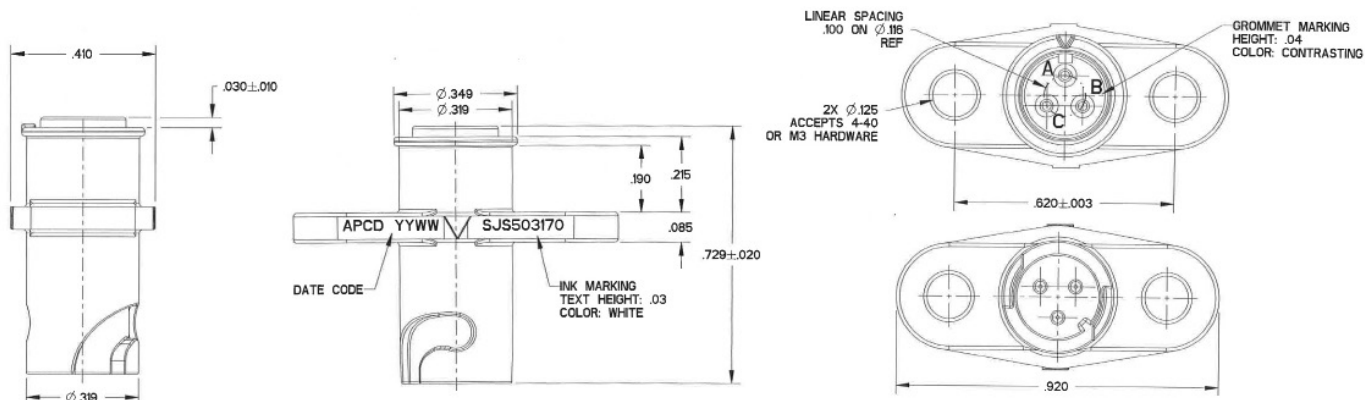
2 Position, Size 22 Oval Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS502170 | None          |              |               | 5          | -   | Black | SJS502170   | SJS830250 |
| SJS502171 | 2             | 22           | M39029/58-360 |            |     |       |             |           |



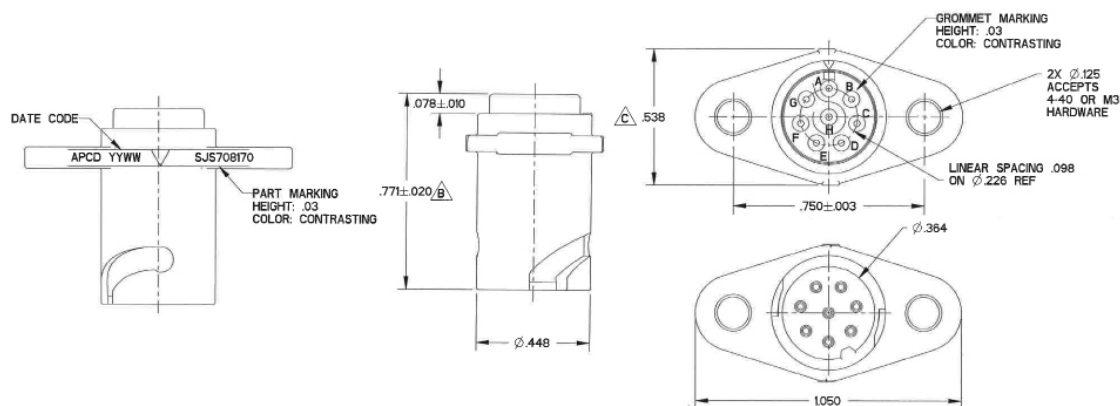
### 3 Position, Size 22 Oval Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS503170 | None          |              |               | 5          | -   | Black | SJS503170   | SJS830210 |
| SJS503171 | 3             | 22           | M39029/58-360 |            |     |       |             |           |



### 8 Position, Size 22 Oval Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|-------------|------------|-----|-------|-------------|-----------|
| SJS708170 | None          |              |             | 7          | A   | Black | SJS708170   | SJS830100 |
| SJS708171 | 8             | 22           | 455830200   |            |     |       |             |           |

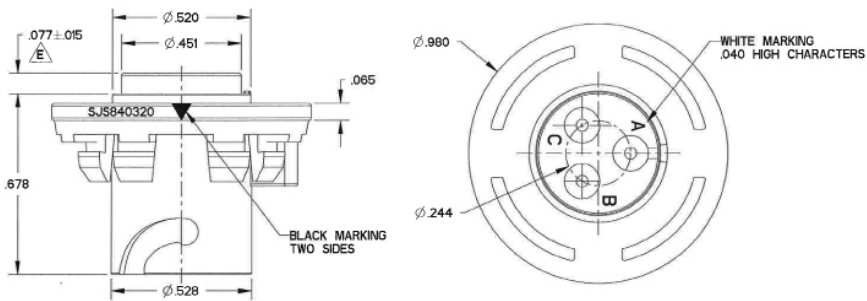


Circular Receptacle

| Type | Part Number | Position | Size | Page |
|------|-------------|----------|------|------|
|      | SJS840320   | 3        | 16   |      |
|      | SJS860520   | 5        | 22   |      |

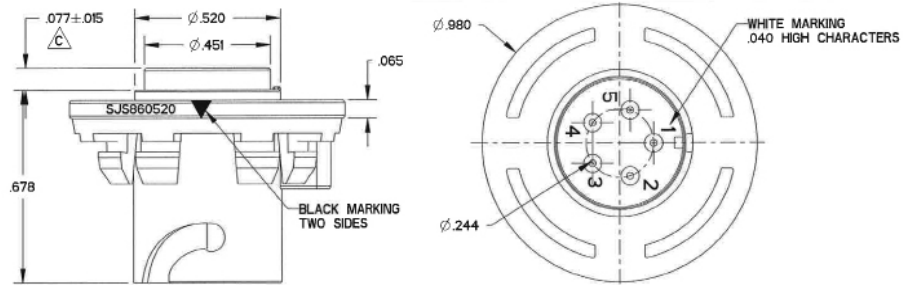
3 Position, Size 16 Circular Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS840320 | None          |              |               | 8          | A   | White | SJS840320   | SJS840310 |
| SJS840321 | 3             | 16           | M39029/58-364 |            |     |       |             |           |
| SJS840330 | None          |              |               | 8          | B   | Black | SJS840330   | SJS840340 |
| SJS840331 | 3             | 16           | M39029/58-364 |            |     |       |             |           |



## 5 Position, Size 22 Circular Receptacle

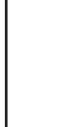
| APCD P/N  | # of Contacts | Contact Size | Contact P/N | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|-------------|------------|-----|-------|-------------|-----------|
| SJS860520 | None          |              |             | 8          | A   | White | SJS860520   | SJS860510 |
| SJS860521 | 5             | 22           |             |            |     |       |             |           |
| SJS870520 | None          |              |             |            | B   | White | SJS870520   | SJS870510 |
| SJS870521 | 5             | 22           |             |            |     |       |             |           |



## Part Numbering-Push & Pull

|              |             |            |     |        |  |  |
|--------------|-------------|------------|-----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Contact Size | Contact Qty | Shell Size | Key | Color  | Plug P/N                                                                            | Receptacle P/N                                                                      |
| 12           | 1           | 7          | n/a | blue   | SJS512100                                                                           | SJS512200                                                                           |
| 12           | 1           | 7          | n/a | red    | SJS512110                                                                           | SJS512210                                                                           |
| 16           | 1           | 6          | n/a | blue   | SJS716100                                                                           | SJS716200                                                                           |
| 16           | 1           | 6          | n/a | red    | SJS716110                                                                           | SJS716210                                                                           |
| 20           | 1           | 6          | n/a | green  | SJS720100                                                                           | SJS720200                                                                           |
| 20           | 1           | 6          | n/a | yellow | SJS720110                                                                           | SJS720210                                                                           |
| 16           | 3           | 11         | A   | red    | SJS816100                                                                           | SJS816200                                                                           |
| 16           | 3           | 11         | B   | white  | SJS816110                                                                           | SJS816210                                                                           |
| 16           | 3           | 11         | C   | blue   | SJS816120                                                                           | SJS816220                                                                           |
| 20           | 3           | 8          | A   | red    | SJS820100                                                                           | SJS820200                                                                           |
| 20           | 3           | 8          | B   | white  | SJS820110                                                                           | SJS820210                                                                           |
| 20           | 3           | 8          | C   | blue   | SJS820120                                                                           | SJS820220                                                                           |

## Part Numbering-Accessories

|            |  |  |  |  |  |  |  |  |  |  |  |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Shell Size | Strain Relief Single                                                                | Strain Relief Single 90°                                                            | Strain Relief Single 45°                                                            | Double Strain Relief                                                                | Double Side Tape Mount Cradle                                                       | Screw Mount Cradle                                                                   | Tube Mount Cradle                                                                     | Single Side Tape Tube Mount Cradle                                                    | Double Side Tape Tube Mount Cradle                                                    | Dummy Flanges                                                                         | Hard Protective Caps                                                                  |
| 5          | SJSA55000                                                                           | SJSA55100                                                                           | SJSA55200                                                                           | SJSA56000                                                                           | SJS257000                                                                           | SJS257100                                                                            | SJSA5V000                                                                             | SJS5AV010                                                                             | SJS5AV020                                                                             | -                                                                                     | SJSA5B000                                                                             |
| 7          | SJS450350                                                                           | SJSA75100                                                                           | SJSA75200                                                                           | SJSA76000                                                                           | SJS883000                                                                           | SJS450250                                                                            | SJSA7V000                                                                             | SJSA7V010                                                                             | SJSA7V020                                                                             | SJS830220D                                                                            | SJSA7B000                                                                             |
| 8          | SJSA85000                                                                           | SJSA85100                                                                           | SJSA85200                                                                           | SJSA86000                                                                           | SJS445000                                                                           | SJS450100                                                                            | SJSA8V000                                                                             | SJSA8V010                                                                             | SJSA8V020                                                                             | -                                                                                     | SJSA8B000                                                                             |
| 10         | SJSA05000                                                                           | SJSA05100                                                                           | SJSA05200                                                                           | SJSA06000                                                                           | SJS991000                                                                           | -                                                                                    | SJSA0V000                                                                             | SJSA0V010                                                                             | SJSA0V020                                                                             | SJS0AA730D                                                                            | SJSA0B000                                                                             |

# ACCESSORIES, CONTACTS & TOOLING

## Contact Information: Machined and Stamped & Formed

Now with Quadrax & Fiber Optic (M29504) capability

|                 |                                  |
|-----------------|----------------------------------|
| Shipping Format | Loose (Tape & reel not included) |
| Mating Cycles   | 500                              |
| Materials       | Contact Body: Copper Alloy       |
|                 | Hood: Stainless Steel            |
|                 | Sleeve: Stainless Steel          |

|                 |                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------|
| Dimensions      | AS39029 Compatible                                                                                           |
| Plating Options | Machined Gold plate 50 micro-inches min over                                                                 |
|                 | Stamped & Formed<br>Selective gold plate over engagement area 3-5 micro-inches thick over nickel under plate |

## Contact Matrix

| Contact Size | Contact Style | Available |            | Contact P/N |                  | QPL Part No.<br>(Machined Only) | Contact Retention             | Crimp Tensile Strength |
|--------------|---------------|-----------|------------|-------------|------------------|---------------------------------|-------------------------------|------------------------|
|              |               | Push-Pull | Twist-Lock | Machined    | Stamped & Formed |                                 |                               |                        |
| 12           | Pin           | Yes       | Yes        | CNP058365   | SCP058365        | M39029/58-365                   | .012" [0,30mm] @ 30lbf [133N] | 100lbf [445N]          |
|              | Socket        | No        | Yes        | CNS057359   | SCS057359        | M39029/57-359                   |                               |                        |
|              | Socket-L      | Yes       | No         | CNS056353   | n/a              | M39029/56-353                   |                               |                        |
| 16           | Pin           | Yes       | Yes        | CNP058364   | SCP058364        | M39029/58-364                   | .012" [0,30mm] @ 25lbf [111N] | 40lbf [180N]           |
|              | Socket        | No        | Yes        | CNS057358   | SCS057358        | M39029/57-358                   |                               |                        |
|              | Socket-L      | Yes       | No         | CNS056352   | n/a              | M39029/56-352                   |                               |                        |
| 20           | Pin           | Yes       | Yes        | CNP058363   | SCP058363        | M39029/58-363                   | .012" [0,30mm] @ 20lbf [90N]  | 20lbf [90N]            |
|              | Socket        | No        | Yes        | CNS057357   | SCS057357        | M39029/57-357                   |                               |                        |
|              | Socket-L      | Yes       | No         | CNS056351   | n/a              | M39029/56-351                   |                               |                        |
| 22D          | Pin           | No        | Yes        | CNP058360   | n/a              | M39029/58-360                   | .012" [0,30mm] @ 10lbf [44N]  | 10 lbf [45N]           |
|              | Socket        | No        | Yes        | CNS057354   | n/a              | M39029/57-354                   |                               |                        |

| Contact Size | Wire Accommodations |                        |                              |                              |
|--------------|---------------------|------------------------|------------------------------|------------------------------|
|              | Size (AWG)          | Max Current Rating (A) | ØD Range                     | Strip Length                 |
| 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                    |                              |                              |

## 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 |  |  |
|---------------|-----------------|------------------|-----------------|--------------------------------|-------------|----------------------|-------------------|-----------------|--|--|
| M39029/22-191 | 22              | 22               | 22              | 5                              | M22520/7-01 | M22520/7-11          | M81960/14-01      |                 |  |  |
|               |                 |                  | 24              | 3                              |             |                      |                   |                 |  |  |
|               |                 |                  | 26              | 2                              |             |                      |                   |                 |  |  |
| M39029/22-192 | 20              | 20               | 20              | 7.5                            | M22520/7-01 | M22520/7-12          | M81969/14-10      |                 |  |  |
|               |                 |                  | 22              | 5                              |             |                      |                   |                 |  |  |
|               |                 |                  | 24              | 3                              |             |                      |                   |                 |  |  |
| M39029/22-193 | 16              | 16               | 16              | 13                             | M22520/7-01 | M22520/7-13          | M81969/14-03      |                 |  |  |
|               |                 |                  | 18              | 10                             |             |                      |                   |                 |  |  |
|               |                 |                  | 20              | 7.5                            |             |                      |                   |                 |  |  |
| M39029/22-605 | 12              | 12               | 12              | 23                             | M22520/1-01 | M22520/1-16          | M81969/16-03      |                 |  |  |
|               |                 |                  | 14              | 17                             |             |                      |                   |                 |  |  |
| 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                              |             |                      | M81960/14-01      |                 |  |  |
|               |                 |                  | 26              | 2                              | M22520/7-01 | M22520/7-06          |                   |                 |  |  |
|               |                 |                  | 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                              |             |                      | M81969/14-01      |                 |  |  |
|               |                 |                  | 26              | 2                              | M22520/7-01 | M22520/7-07          |                   |                 |  |  |
|               |                 |                  | 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      |                 |  |  |

# ACCESSORIES, CONTACTS & TOOLING

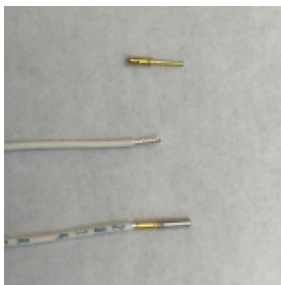
| Contact Size | Wire Size | Insulation O.D | Stripping Length "A" |
|--------------|-----------|----------------|----------------------|
| 8            | 8-10 AWG  | .124-.155 IN   | .470 IN              |
| 12           | 12-14 AWG | .097-.142 in   | .188 in              |
| 16           | 16-20 AWG | .065-.109 in   | .188 in              |
| 20           | 20-24 AWG | .040-.083 IN   | .188 IN              |
| 22D          | 22-28 AWG | .030-.055 in   | .125 IN              |

## 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





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