



# LUMINUS SERIES CATALOG

Luminus Series circular connectors offer 1/4 turn bayonet-style or push-and-snap connections to streamline wire installation. Compliant with M81714 and FAR25 standards, Luminus Series circular connectors are ideal for demanding military and aerospace environments.

## Overview

Luminus Series circular connectors are lightweight, cost-effective, 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 & Benefit

|                                                             |                                                                                                                |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 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                                                                    |

## Materials & Specifications

|                         |                                                 |                                                      |                                                    |         |
|-------------------------|-------------------------------------------------|------------------------------------------------------|----------------------------------------------------|---------|
| Materials               | Insulator Body: Polyamide 6/6 (Nylon)           | Fluid Immersion                                      | Lubricating Oil per Mil-Prf-7808                   |         |
|                         | Grommet & Face Seal: Silicone Rubber            |                                                      | Cleaning Compound per Mil-Prf-87937, Alkaline Base |         |
|                         | Contact Retainer: Stainless Steel               |                                                      | Isopropyl Alcohol & Mineral Spirit Solution        |         |
| 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                |                                                      | Skydrol Hydraulic Fluid                            |         |
|                         | 300 VAC, 60 Hz @ 70,000 ft, 2ma                 |                                                      | Hydraulic Fluids per MIL-PRF-83282; MIL-PRF-87257  |         |
| Durability              | 500 mating cycles                               |                                                      | Ethylene Glycol                                    |         |
| Temperature Cycling     | 5(1) Hour Cycles: -65°C to 125°C                |                                                      | Propylene Glycol                                   |         |
| Thermal Shock           | -65°C to 200°C                                  | Aviation Jet A                                       |                                                    |         |
| Vibration               | 30G Sinusoidal; 43.96G Random                   | Contact Insertion & Removal Force<br>(Not to exceed) | Size 22                                            | 10 lbs. |
| Shock                   | 300G, 3msec, Half-Sine                          |                                                      | Size 20                                            | 10 lbs. |
| Salt Spray              | 5% Salt Spray @ 95°C for 48 Hours               |                                                      | Size 16                                            | 13 lbs. |
| Humidity                | 10 Days @ 25°C to 65°C, 90% - 95% RH            |                                                      | Size 12                                            | 15 lbs. |
| Seal Rating             | IP67                                            | Contact Retention<br>(Min.)                          | Size 22                                            | 10 lbs. |
| Altitude Immersion      | Current Altitude Immersion Level Table Pgs. 3-4 |                                                      | Size 20                                            | 15 lbs. |
| RoHS & REACH Compliance | Yes                                             |                                                      | Size 16                                            | 25 lbs. |
| Flammability            | UL94, V0.                                       |                                                      | Size 12                                            | 30 lbs. |
|                         | DOTG section 26.6.2 & 26.6.3                    |                                                      |                                                    |         |
|                         | FAR Part 25 App F Part I                        |                                                      |                                                    |         |

## Current Altitude Immersion Level by Part Number

| Part Number | Current Rating |
|-------------|----------------|
| SJS812730P  | 12,000 feet    |
| SJS812731P  | 12,000 feet    |
| SJS861400P  | 12,000 feet    |
| SJS861401P  | 12,000 feet    |
| SJS112120P  | 12,000 feet    |
| SJS112121P  | 12,000 feet    |
| SJS112160P  | 12,000 feet    |
| SJS112161P  | 12,000 feet    |
| SJS112162P  | 12,000 feet    |
| SJS112220P  | 12,000 feet    |
| SJS112221P  | 12,000 feet    |
| SJS112260P  | 12,000 feet    |
| SJS112261P  | 12,000 feet    |
| SJS112262P  | 12,000 feet    |
| SJS112320P  | 12,000 feet    |
| SJS112321P  | 12,000 feet    |
| SJS112360P  | 12,000 feet    |
| SJS112361P  | 12,000 feet    |
| SJS112362P  | 12,000 feet    |
| SJS112420P  | 12,000 feet    |
| SJS112421P  | 12,000 feet    |
| SJS112460P  | 12,000 feet    |
| SJS112461P  | 12,000 feet    |
| SJS112462P  | 12,000 feet    |
| SJS861300P  | 12,000 feet    |
| SJS861301P  | 12,000 feet    |
| SJS112110P  | 12,000 feet    |
| SJS112111P  | 12,000 feet    |
| SJS112210P  | 12,000 feet    |
| SJS112211P  | 12,000 feet    |
| SJS112310P  | 12,000 feet    |
| SJS112311P  | 12,000 feet    |
| SJS112410P  | 12,000 feet    |
| SJS112411P  | 12,000 feet    |
| SJS861400M  | 12,000 feet    |
| SJS861401M  | 12,000 feet    |
| SJS861460M  | 12,000 feet    |
| SJS861461M  | 12,000 feet    |
| SJS863200M  | 12,000 feet    |
| SJS863201M  | 12,000 feet    |
| SJS863260M  | 12,000 feet    |
| SJS863261M  | 12,000 feet    |
| SJS863400M  | 12,000 feet    |
| SJS863401M  | 12,000 feet    |
| SJS863460M  | 12,000 feet    |

| Part Number | Current Rating |
|-------------|----------------|
| SJS863461M  | 12,000 feet    |
| SJS863600M  | 12,000 feet    |
| SJS863601M  | 12,000 feet    |
| SJS863660M  | 12,000 feet    |
| SJS863661M  | 12,000 feet    |
| SJS861300M  | 12,000 feet    |
| SJS861301M  | 12,000 feet    |
| SJS863100M  | 12,000 feet    |
| SJS863101M  | 12,000 feet    |
| SJS863300M  | 12,000 feet    |
| SJS863301M  | 12,000 feet    |
| SJS863500M  | 12,000 feet    |
| SJS863501M  | 12,000 feet    |
| SJS840310P  | 25,000 feet    |
| SJS840311P  | 25,000 feet    |
| SJS840340P  | 25,000 feet    |
| SJS840341P  | 25,000 feet    |
| SJS840410P  | 25,000 feet    |
| SJS840411P  | 25,000 feet    |
| SJS840440P  | 25,000 feet    |
| SJS840441P  | 25,000 feet    |
| SJS803130P  | 25,000 feet    |
| SJS803131P  | 25,000 feet    |
| SJS803730P  | 25,000 feet    |
| SJS803731P  | 25,000 feet    |
| SJS840300P  | 25,000 feet    |
| SJS840301P  | 25,000 feet    |
| SJS840320P  | 25,000 feet    |
| SJS840321P  | 25,000 feet    |
| SJS840330P  | 25,000 feet    |
| SJS840331P  | 25,000 feet    |
| SJS840350P  | 25,000 feet    |
| SJS840351P  | 25,000 feet    |
| SJS804730P  | 25,000 feet    |
| SJS804731P  | 25,000 feet    |
| SJS804760P  | 25,000 feet    |
| SJS804761P  | 25,000 feet    |
| SJS804762P  | 25,000 feet    |
| SJS804790P  | 25,000 feet    |
| SJS804791P  | 25,000 feet    |
| SJS840400P  | 25,000 feet    |
| SJS840401P  | 25,000 feet    |
| SJS840450P  | 25,000 feet    |
| SJS840451P  | 25,000 feet    |
| SJS830250P  | 50,000 feet    |

| Part Number  | Current Rating |
|--------------|----------------|
| SJS830251P   | 50,000 feet    |
| SJS862400P   | 50,000 feet    |
| SJS862401P   | 50,000 feet    |
| SJS862450P   | 50,000 feet    |
| SJS862451P   | 50,000 feet    |
| SJS704120P   | 50,000 feet    |
| SJS704121P   | 50,000 feet    |
| SJS870510P   | 50,000 feet    |
| SJS870511P   | 50,000 feet    |
| SJS406120P   | 50,000 feet    |
| SJS406121P   | 50,000 feet    |
| SJS706160P   | 50,000 feet    |
| SJS706161P   | 50,000 feet    |
| SJS706162P   | 50,000 feet    |
| SJS861800P   | 50,000 feet    |
| SJS861801P   | 50,000 feet    |
| SJS830101P   | 50,000 feet    |
| SJS830100P   | 50,000 feet    |
| SJS830102P   | 50,000 feet    |
| SJS831100P   | 50,000 feet    |
| SJS831101P   | 50,000 feet    |
| SJS831102P   | 50,000 feet    |
| SJS809130P   | 50,000 feet    |
| SJS809131P   | 50,000 feet    |
| SJS862200P   | 50,000 feet    |
| SJS862201P   | 50,000 feet    |
| SJS502160P   | 50,000 feet    |
| SJS502161P   | 50,000 feet    |
| SJS502162P   | 50,000 feet    |
| SJS502170P   | 50,000 feet    |
| SJS502171P   | 50,000 feet    |
| SJS502190P   | 50,000 feet    |
| SJS502191P   | 50,000 feet    |
| SJS830270P   | 50,000 feet    |
| SJS830271P   | 50,000 feet    |
| SJS862300P   | 50,000 feet    |
| SJS862301P   | 50,000 feet    |
| SJS704110P   | 50,000 feet    |
| SJS704111P   | 50,000 feet    |
| SJS870520P   | 50,000 feet    |
| SJS870521P   | 50,000 feet    |
| SJS406110P   | 50,000 feet    |
| SJS406111P   | 50,000 feet    |
| SJS861700P   | 50,000 feet    |
| SJS861700PAC | 50,000 feet    |

## Current Altitude Immersion Level by Part Number

| Part Number | Current Rating   |
|-------------|------------------|
| SJS861701P  | 50,000 feet      |
| SJS830201P  | 50,000 feet      |
| SJS830221P  | 50,000 feet      |
| SJS708160P  | 50,000 feet      |
| SJS708161P  | 50,000 feet      |
| SJS708162P  | 50,000 feet      |
| SJS708170P  | 50,000 feet      |
| SJS708171P  | 50,000 feet      |
| SJS708190P  | 50,000 feet      |
| SJS708191P  | 50,000 feet      |
| SJS830200P  | 50,000 feet      |
| SJS830202P  | 50,000 feet      |
| SJS830220P  | 50,000 feet      |
| SJS830222P  | 50,000 feet      |
| SJS831200P  | 50,000 feet      |
| SJS831201P  | 50,000 feet      |
| SJS831202P  | 50,000 feet      |
| SJS831220P  | 50,000 feet      |
| SJS831221P  | 50,000 feet      |
| SJS831222P  | 50,000 feet      |
| SJS862100P  | 50,000 feet      |
| SJS862101P  | 50,000 feet      |
| SJS830210P  | IP67 (sea level) |
| SJS830211P  | IP67 (sea level) |
| SJS805730P  | IP67 (sea level) |
| SJS805731P  | IP67 (sea level) |
| SJS860500P  | IP67 (sea level) |
| SJS860501P  | IP67 (sea level) |
| SJS860520P  | IP67 (sea level) |
| SJS860521P  | IP67 (sea level) |
| SJS412120P  | IP67 (sea level) |
| SJS412121P  | IP67 (sea level) |
| SJS425120P  | IP67 (sea level) |
| SJS425121P  | IP67 (sea level) |
| SJS425160P  | IP67 (sea level) |
| SJS425161P  | IP67 (sea level) |
| SJS425162P  | IP67 (sea level) |
| SJS425220P  | IP67 (sea level) |
| SJS425221P  | IP67 (sea level) |
| SJS425260P  | IP67 (sea level) |

| Part Number | Current Rating   |
|-------------|------------------|
| SJS425261P  | IP67 (sea level) |
| SJS425262P  | IP67 (sea level) |
| SJS425320P  | IP67 (sea level) |
| SJS425321P  | IP67 (sea level) |
| SJS425360P  | IP67 (sea level) |
| SJS425361P  | IP67 (sea level) |
| SJS425362P  | IP67 (sea level) |
| SJS425420P  | IP67 (sea level) |
| SJS425421P  | IP67 (sea level) |
| SJS425460P  | IP67 (sea level) |
| SJS425461P  | IP67 (sea level) |
| SJS425462P  | IP67 (sea level) |
| SJS860200P  | IP67 (sea level) |
| SJS860201P  | IP67 (sea level) |
| SJS8AC730P  | IP67 (sea level) |
| SJS8AC731P  | IP67 (sea level) |
| SJS860900P  | IP67 (sea level) |
| SJS860901P  | IP67 (sea level) |
| SJS0AA730P  | IP67 (sea level) |
| SJS0AA731P  | IP67 (sea level) |
| SJS0AA737P  | IP67 (sea level) |
| SJS0AB770P  | IP67 (sea level) |
| SJS0AB771P  | IP67 (sea level) |
| SJS861200P  | IP67 (sea level) |
| SJS861201P  | IP67 (sea level) |
| SJS503160P  | IP67 (sea level) |
| SJS503161P  | IP67 (sea level) |
| SJS503162P  | IP67 (sea level) |
| SJS503170P  | IP67 (sea level) |
| SJS503171P  | IP67 (sea level) |
| SJS503190P  | IP67 (sea level) |
| SJS503191P  | IP67 (sea level) |
| SJS830230P  | IP67 (sea level) |
| SJS830231P  | IP67 (sea level) |
| SJS860510P  | IP67 (sea level) |
| SJS860511P  | IP67 (sea level) |
| SJS412110P  | IP67 (sea level) |
| SJS412111P  | IP67 (sea level) |
| SJS425110P  | IP67 (sea level) |
| SJS425111P  | IP67 (sea level) |

| Part Number | Current Rating   |
|-------------|------------------|
| SJS425210P  | IP67 (sea level) |
| SJS425211P  | IP67 (sea level) |
| SJS425310P  | IP67 (sea level) |
| SJS425311P  | IP67 (sea level) |
| SJS425410P  | IP67 (sea level) |
| SJS425411P  | IP67 (sea level) |
| SJS860100P  | IP67 (sea level) |
| SJS860101P  | IP67 (sea level) |
| SJS860910P  | IP67 (sea level) |
| SJS860911P  | IP67 (sea level) |
| SJS861100P  | IP67 (sea level) |
| SJS861101P  | IP67 (sea level) |
| SJS225120M  | IP67 (sea level) |
| SJS225121M  | IP67 (sea level) |
| SJS225160M  | IP67 (sea level) |
| SJS225161M  | IP67 (sea level) |
| SJS225162M  | IP67 (sea level) |
| SJS225220M  | IP67 (sea level) |
| SJS225221M  | IP67 (sea level) |
| SJS225260M  | IP67 (sea level) |
| SJS225261M  | IP67 (sea level) |
| SJS225262M  | IP67 (sea level) |
| SJS225320M  | IP67 (sea level) |
| SJS225321M  | IP67 (sea level) |
| SJS225360M  | IP67 (sea level) |
| SJS225361M  | IP67 (sea level) |
| SJS225362M  | IP67 (sea level) |
| SJS225420M  | IP67 (sea level) |
| SJS225421M  | IP67 (sea level) |
| SJS225460M  | IP67 (sea level) |
| SJS225461M  | IP67 (sea level) |
| SJS225462M  | IP67 (sea level) |
| SJS225110M  | IP67 (sea level) |
| SJS225111M  | IP67 (sea level) |
| SJS225210M  | IP67 (sea level) |
| SJS225211M  | IP67 (sea level) |
| SJS225310M  | IP67 (sea level) |
| SJS225311M  | IP67 (sea level) |
| SJS225410M  | IP67 (sea level) |
| SJS225411M  | IP67 (sea level) |

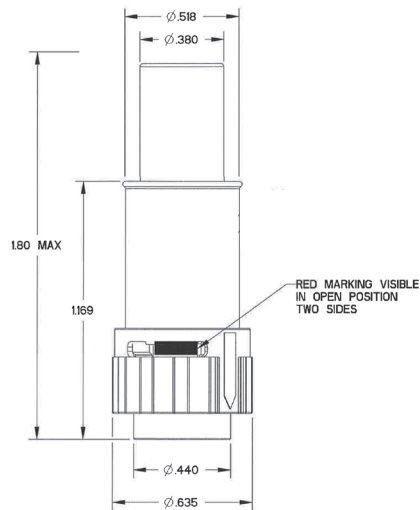
## Part Numbering-Twist & Lock



| # of Positions | Contact Size | Shell Size | Key | Color  | Part Numbers |             |           |           |                  |           |                   |
|----------------|--------------|------------|-----|--------|--------------|-------------|-----------|-----------|------------------|-----------|-------------------|
|                |              |            |     |        | Plug         | Receptacles |           |           |                  |           |                   |
|                |              |            |     |        |              | Inline      | Circular  | Square    | Jamnut PCB Mount | Oval      | Jamnut Rear Mount |
| 1              | Quadrax      | 8          | -   | -      | SJS801110    | SJS801120   | -         | -         | -                | -         | -                 |
| 2              | 22D          | 5          | -   | Black  | SJS830250    | SJS830270   | -         | -         | SJS502160        | SJS502170 | SJS502190         |
| 3              | 16           | 8          | A   | White  | SJS840310    | SJS840300   | SJS840320 | SJS803730 | -                | -         | -                 |
| 3              | 16           | 8          | B   | Black  | SJS840340    | SJS840350   | SJS840330 | -         | -                | -         | -                 |
| 3              | 20           | 7          | -   | White  | SJS862300    | SJS862400   | -         | SJS862450 | -                | -         | -                 |
| 3              | 22D          | 5          | -   | Black  | SJS830210    | SJS830230   | -         | -         | SJS503160        | SJS503170 | SJS503190         |
| 4              | 16           | 8          | A   | White  | SJS840410    | SJS840400   | -         | SJS804730 | -                | -         | SJS804790         |
| 4              | 20           | 7          | -   | Black  | SJS704110    | SJS704120   | -         | -         | -                | -         | -                 |
| 5              | 20           | 8          | -   | Black  | SJS8A5110    | SJS8A5120   |           |           |                  |           |                   |
| 5              | 22D          | 8          | A   | White  | SJS860510    | SJS860500   | SJS860520 | SJS805730 | -                | -         | -                 |
| 5              | 22D          | 8          | B   | White  | SJS870510    | -           | SJS870520 | -         | -                | -         | -                 |
| 6              | 12           | 14         | -   | Black  | SJS406110    | SJS406120   | -         | -         | -                | -         | -                 |
| 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             | 16           | 14         | -   | Black  | SJS412110    | SJS412120   | -         | -         | -                | -         | -                 |
| 12             | 22D          | 8          | -   | White  | SJS861300    | SJS861400   | -         | SJS812730 | -                | -         | -                 |
| 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        | -         | -                 |
| 9              | 1            | 16         | 8   | White  | SJS860100    | SJS860200   | -         | SJS8AC730 | -                | -         | -                 |
|                | 8            | 22D        |     |        |              |             |           |           |                  |           |                   |
| 9              | 4            | 16         | 10  | White  | SJS860910    | SJS860900   | -         | SJS0AA730 | -                | -         | -                 |
|                | 5            | 22D        |     |        |              |             |           |           |                  |           |                   |
| 10             | 4            | 16         | 10  | White  | SJS861100    | SJS861200   | -         | -         | -                | -         | -                 |
|                | 6            | 22D        |     |        |              |             |           |           |                  |           |                   |

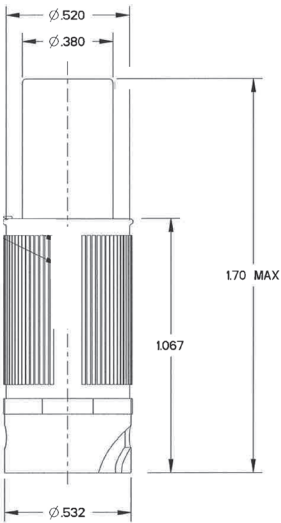
## 1 Position, Quadrax Inline Plug

| APCD P/N     | Contact Type        | Contact P/N | Shell Size | Key | Color | P/N Marking | Mating       |
|--------------|---------------------|-------------|------------|-----|-------|-------------|--------------|
| SJS801110    | None                |             | 8          | A   | Black | SJS801110   | SJS801120    |
| SJS801110-1  | Power               | CNS808100   |            |     |       |             | SJS801120-1  |
| SJS801110-2  | 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 |



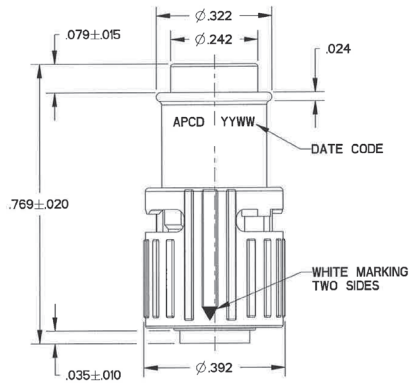
1 Position, Quadrax Inline Receptacle

| APCD P/N     | Contact Type        | Contact P/N | Shell Size | Key | Color | P/N Marking | Mating       |
|--------------|---------------------|-------------|------------|-----|-------|-------------|--------------|
| SJS801120    | None                |             | 8          | A   | Black | SJS801120   | SJS801110    |
| SJS801120-1  | Power               | CNP808100   |            |     |       |             | SJS801110-1  |
| SJS801120-2  | Differential Twinax | CNP882100   |            |     |       |             | SJS801110-2  |
| SJS801120-3  |                     | CNP882110   |            |     |       |             | SJS801110-3  |
| SJS801120-4  |                     | CNP882120   |            |     |       |             | SJS801110-4  |
| SJS801120-5  |                     | CNP882130   |            |     |       |             | SJS801110-5  |
| SJS801120-6  |                     | CNP882140   |            |     |       |             | SJS801110-6  |
| SJS801120-7  |                     | CNP882150   |            |     |       |             | SJS801110-7  |
| SJS801120-8  | Quadrax             | CNP882300   |            |     |       |             | SJS801110-8  |
| SJS801120-9  |                     | CNP882310   |            |     |       |             | SJS801110-9  |
| SJS801120-10 |                     | CNP882320   |            |     |       |             | SJS801110-10 |
| SJS801120-11 |                     | CNP882330   |            |     |       |             | SJS801110-11 |
| SJS801120-12 |                     | CNP882340   |            |     |       |             | SJS801110-12 |
| SJS801120-13 |                     | CNP882350   |            |     |       |             | SJS801110-13 |



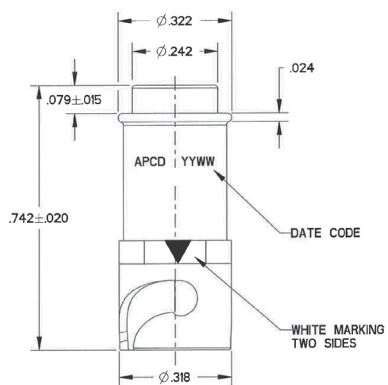
## 2 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                                           |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|--------------------------------------------------|
| SJS830250 | None          |              |               | 5          | A   | Black | SJS830250   | SJS830270<br>SJS502160<br>SJS502170<br>SJS502190 |
| SJS830251 | 2             | 22           | M39029/57-354 |            |     |       |             |                                                  |



## 2 Position, Size 22 Inline Receptacle

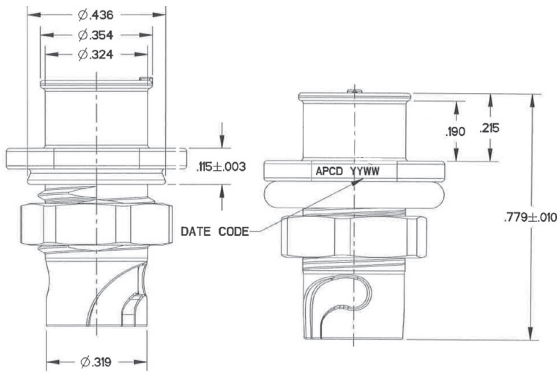
| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS830270 | None          |              |               | 5          |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





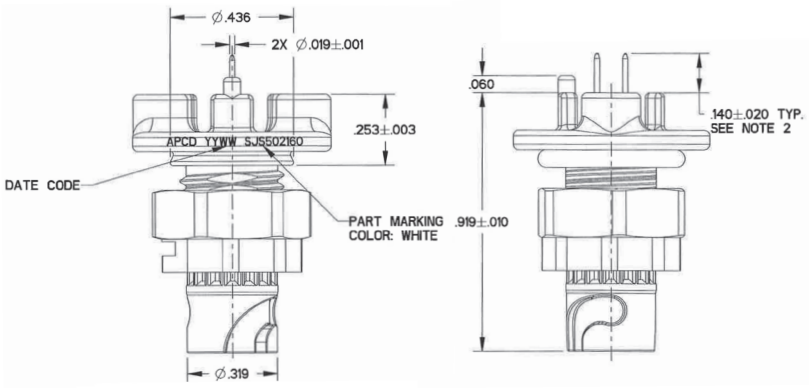
2 Position, Size 22 Jamnut Rear Mount Receptacle

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



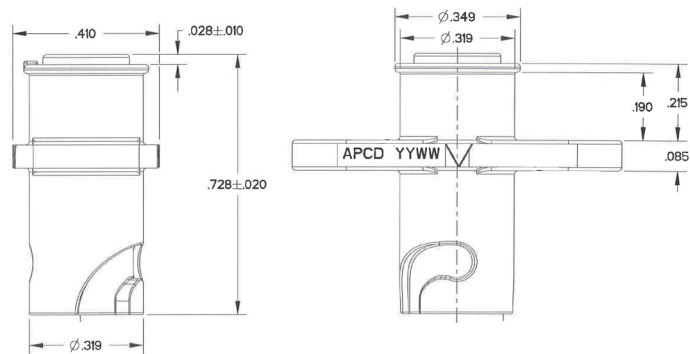
2 Position, Size 22 Jamnut Receptacle

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



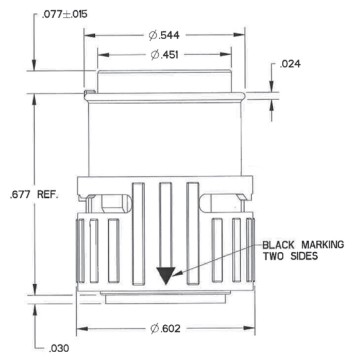
## 2 Position, Size 22 Oval Receptacle

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



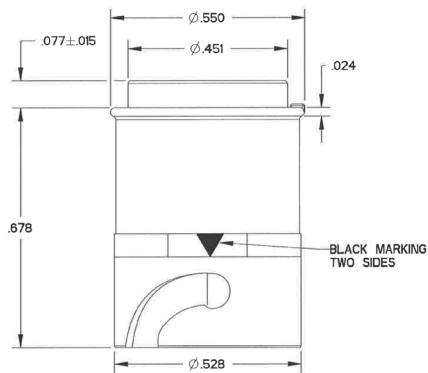
## 3 Position, Size 16 Inline Plug

| 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              |
| SJS840341 | 3             | 16           | M39029/57-358 |            |     |       |             |                                     |



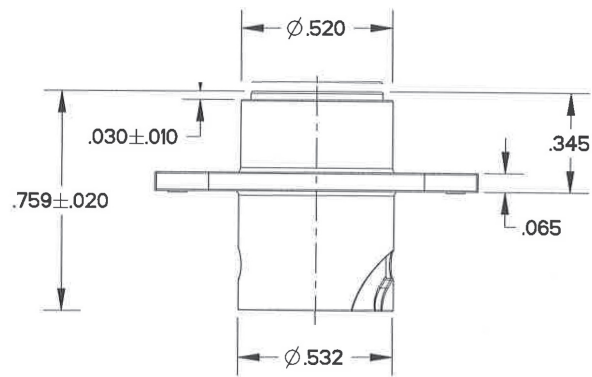
3 Position, Size 16 Inline Receptacle

| 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          |              |               |            | B   | Black | SJS840350   | SJS840340 |
| SJS840351 | 3             | 16           | M39029/58-364 |            |     |       |             |           |



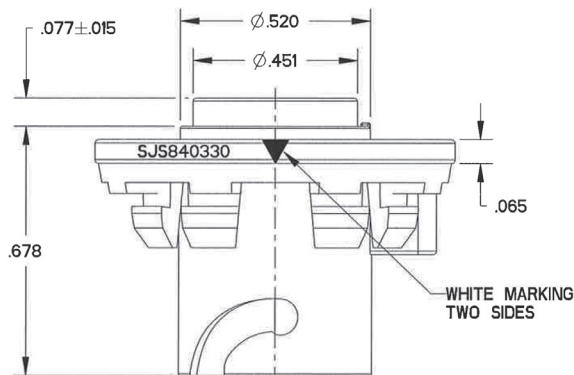
3 Position, Size 16 Square Receptacle

| 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 |            |     |       |             |           |



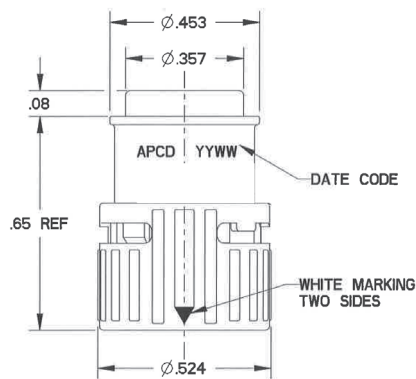
3 Position, Size 16 Circular Receptacle

| 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          |              |               |            | B   | Black | SJS840330   | SJS840340 |
| SJS840331 | 3             | 16           | M39029/58-364 |            |     |       |             |           |



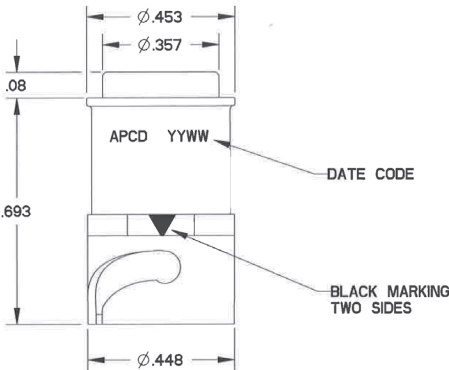
3 Position, Size 20 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------------------|
| SJS862300 | None          |              |               | 7          | A   | White | SJS862300   | SJS862400<br>SJS862450 |
| SJS862301 | 3             | 20           | M39029/57-357 |            |     |       |             |                        |



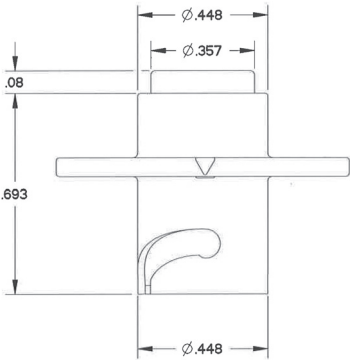
3 Position, Size 20 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS862400 | None          |              |               | 7          | A   | White | SJS862400   | SJS862300 |
| SJS862401 | 3             | 20           | M39029/58-363 |            |     |       |             |           |



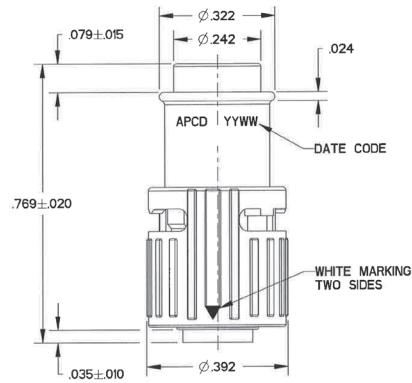
3 Position, Size 20 Square Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS862450 | None          |              |               | 7          | A   | White | SJS862450   | SJS862300 |
| SJS862451 | 3             | 20           | M39029/58-363 |            |     |       |             |           |



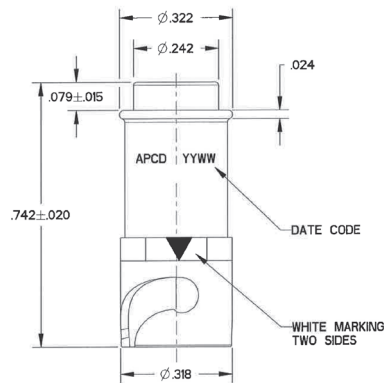
## 3 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                                           |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|--------------------------------------------------|
| SJS830210 | None          |              |               | 5          | A   | Black | SJS830210   | SJS830230<br>SJS503170<br>SJS503190<br>SJS503160 |
| SJS830211 | 3             | 22           | M39029/57-354 |            |     |       |             |                                                  |



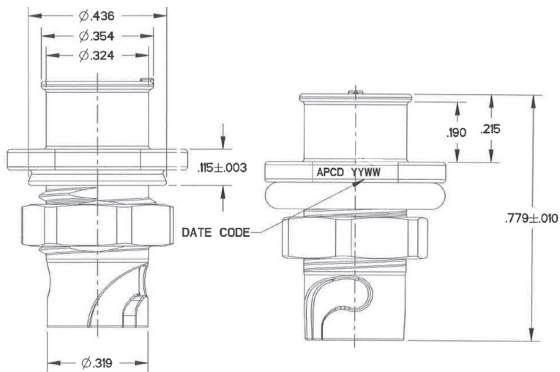
## 3 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS830230 | None          |              |               | 5          | A   | Black | SJS830230   | SJS830210 |
| SJS830231 | 3             | 22           | M39029/58-360 |            |     |       |             |           |



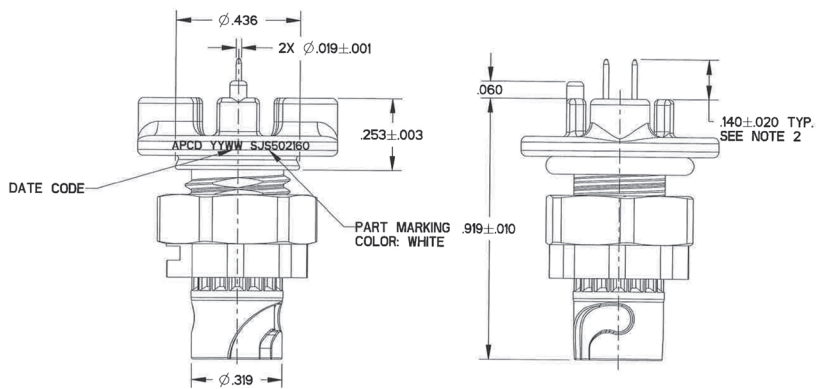
3 Position, Size 22 Jamnut Rear Mount Receptacle

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



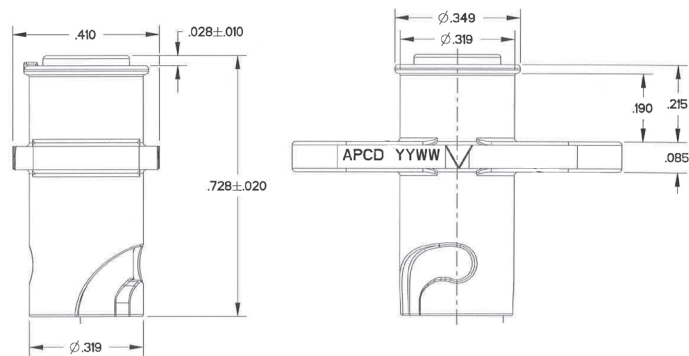
3 Position, Size 22 Jamnut Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS503160 | None          |              |               | 5          | A   | Black | SJS503160   | SJS830210 |
| SJS503161 | 3             | 22           | M39029/58-360 |            |     |       |             |           |
| SJS503162 | 3             | 22           | CNP831033     |            |     |       |             |           |



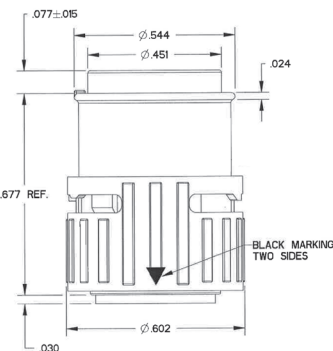
3 Position, Size 22 Oval Receptacle

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



4 Position, Size 16 Inline Plug

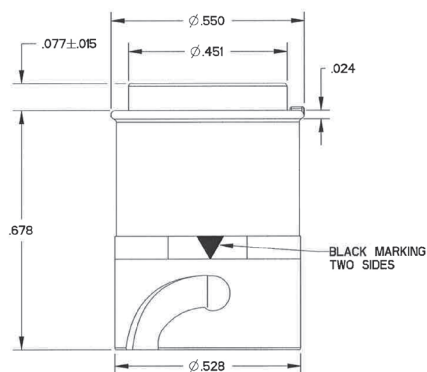
| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                                           |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|--------------------------------------------------|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





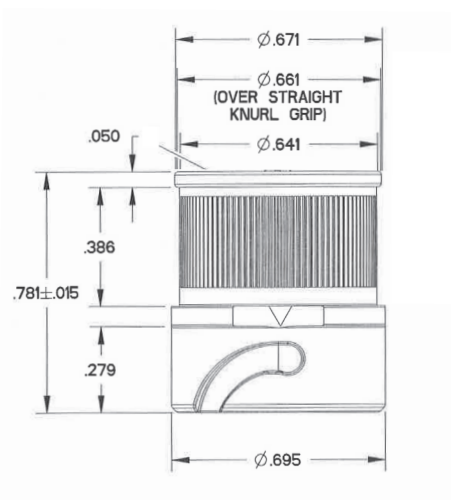
## 4 Position, Size 16 Inline Receptacle

| 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             | 16           | M39029/58-364 |            |     |       |             |           |
| SJS840450 | None          |              |               |            | B   | White | SJS840450   | SJS840440 |
| SJS840451 | 4             | 16           | M39029/58-364 |            |     |       |             |           |



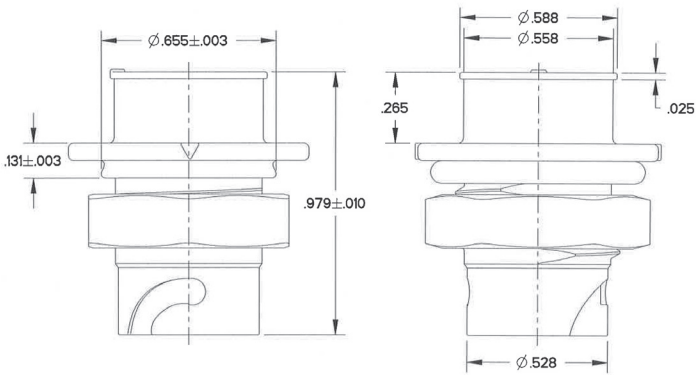
## 4 Position, Size 16 Inline Receptacle

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



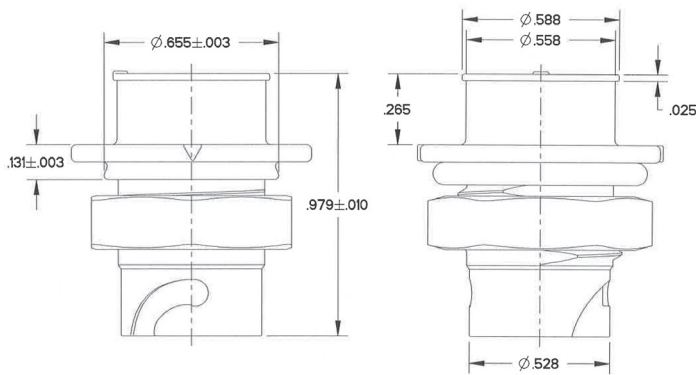
4 Position, Size 16 Jamnut Rear Receptacle

| 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 |            |     |       |             |           |



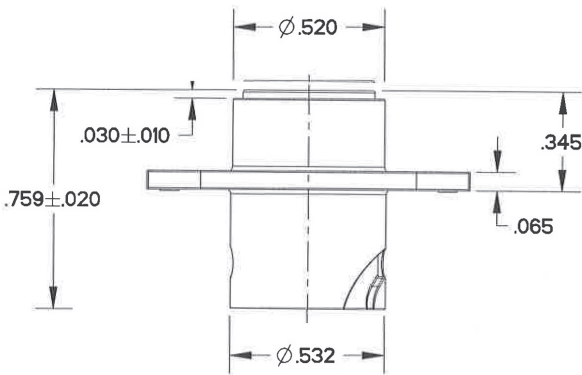
4 Position, Size 16 Jamnut Receptacle

| 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    |            |     |       |             |           |



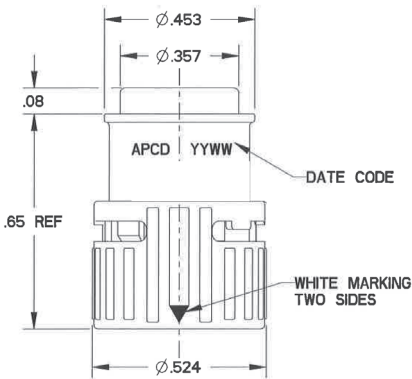
4 Position, Size 16 Square Receptacle

| 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           | M39029/58-363 |            |     |       |             |           |



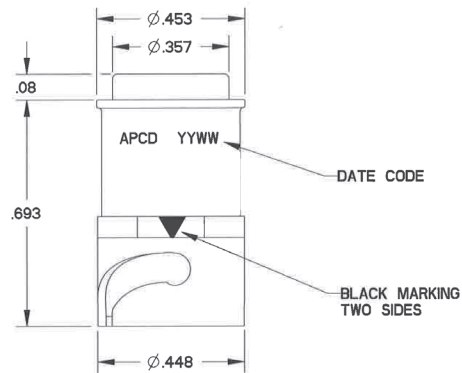
4 Position, Size 20 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS704110 | None          |              |               | 7          | A   | Black | SJ5704110   | SJS704120 |
| SJ5704111 | 4             | 20           | M39029/57-357 |            |     |       |             |           |



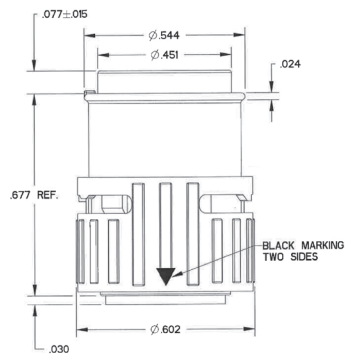
## 4 Position, Size 20 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS704120 | None          |              |               | 7          | A   | Black | SJS704120   | SJS704110 |
| SJS704121 | 4             | 20           | M39029/58-363 |            |     |       |             |           |



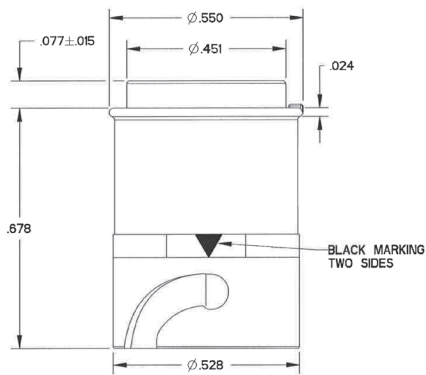
## 5 Position, Size 22 Inline Plug

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



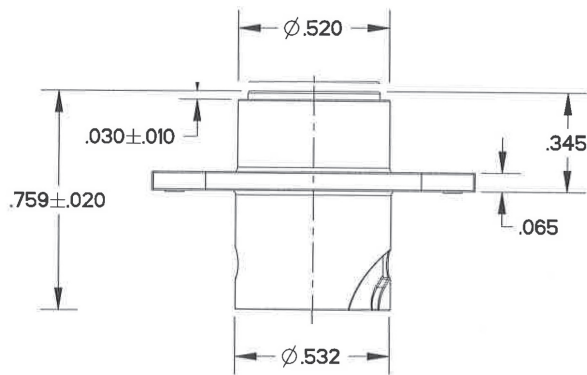
5 Position, Size 22 Inline Receptacle

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



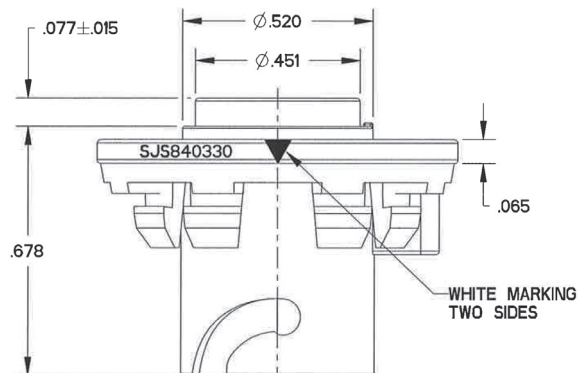
5 Position, Size 22 Square Receptacle

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



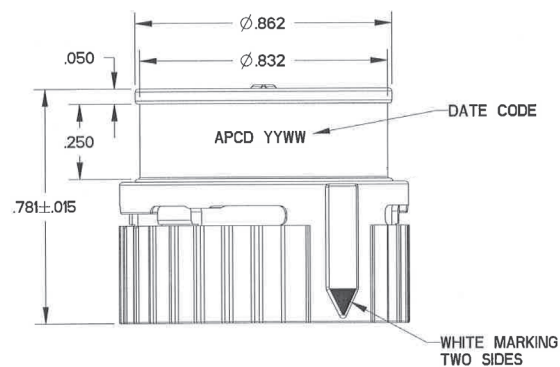
## 5 Position, Size 22 Circular Receptacle

| 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           | M39029/58-360 |            |     |       |             |           |
| SJS870520 | None          |              |               |            | B   | White | SJS870520   | SJS870510 |
| SJS870521 | 5             | 22           | M39029/57-354 |            |     |       |             |           |



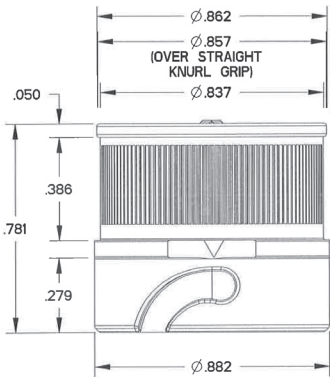
## 6 Position, Size 12 Inline Plug

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



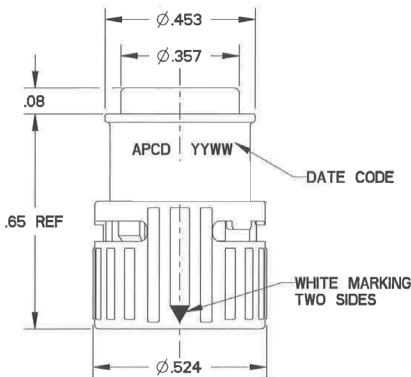
6 Position, Size 12 Inline Receptacle

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



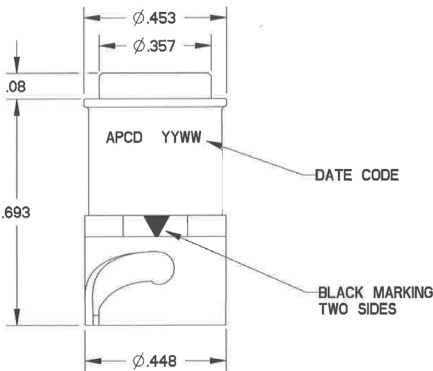
6 Position, Size 22 Inline Plug

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



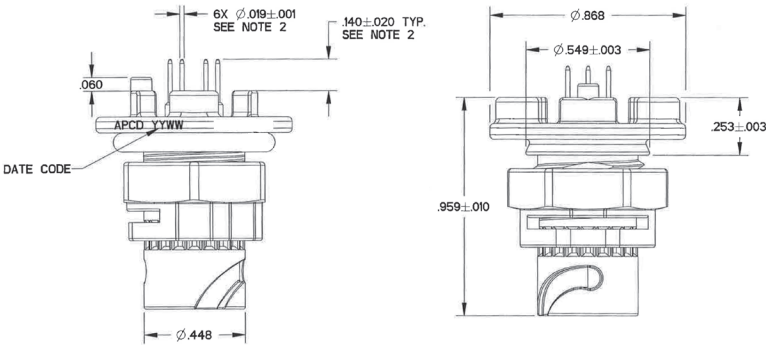
6 Position, Size 22 Inline Receptacle

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



6 Position, Size 22 Jamnut Receptacle

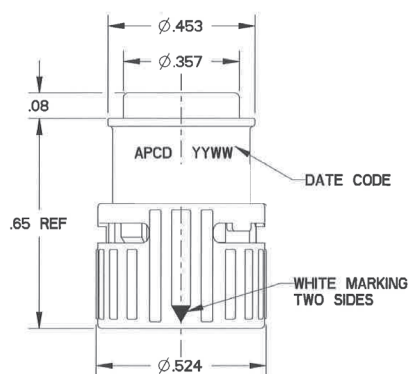
| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS706160 | None          |              |               | 7          |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





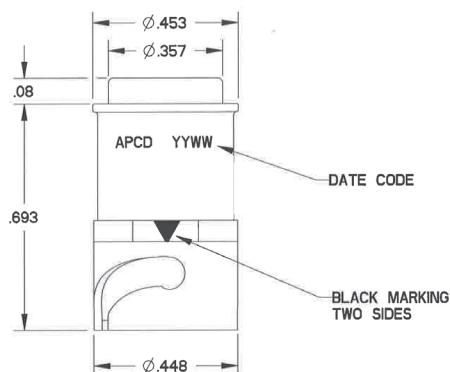
## 8 Position, Size 22 Inline Plug

| 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           | M39029/57-354 |            |     |        |             |                                                               |
| SJS830101 | None          |              |               |            | B   | Green  | SJS830101   | SJS830201<br>SJS830221                                        |
| SJS831101 | 8             | 22           | M39029/57-354 |            |     |        |             |                                                               |
| SJS830102 | None          |              |               |            | C   | Yellow | SJS830102   | SJS830202<br>SJS830222                                        |
| SJS831102 | 8             | 22           | M39029/57-354 |            |     |        |             |                                                               |



## 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 |            |     |        |             |           |

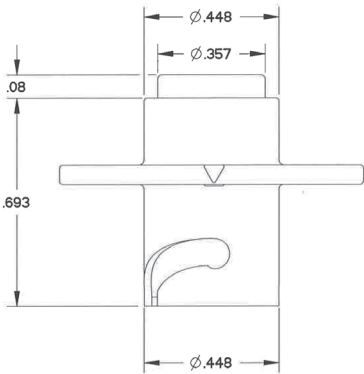


| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS708160 | None          |              |               | 7          |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



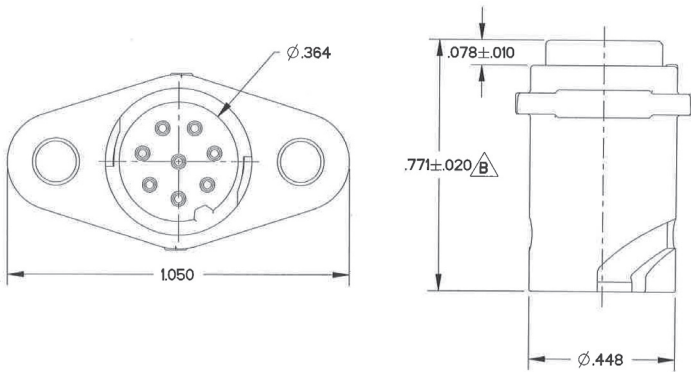
8 Position, Size 22 Square Receptacle

| 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 |            |     |        |             |           |



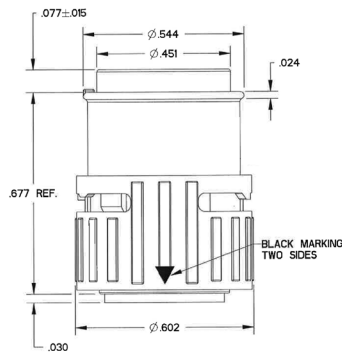
8 Position, Size 22 Oval Receptacle

| 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           | M39029/58-360 |            |     |       |             |           |



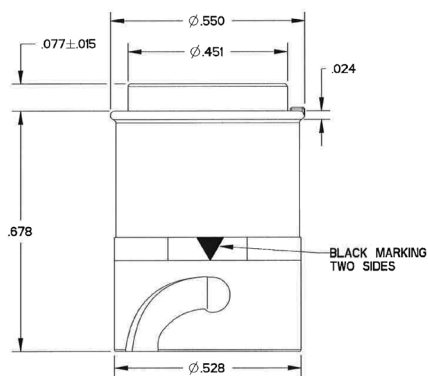
## 9 Position, Size 16/22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------------------|
| SJS860100 | None          |              |               | 8          | A   | White | SJS860100   | SJS860200<br>SJS8AC730 |
| SJS860101 | 8             | 22           | M39029/57-354 |            |     |       |             |                        |
|           | 1             | 16           | M39029/57-358 |            |     |       |             |                        |



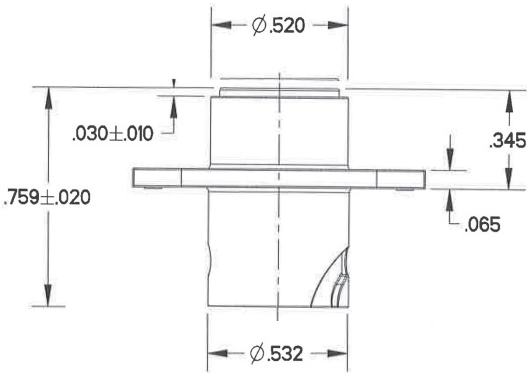
## 9 Position, Size 16/22 Inline Receptacle

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



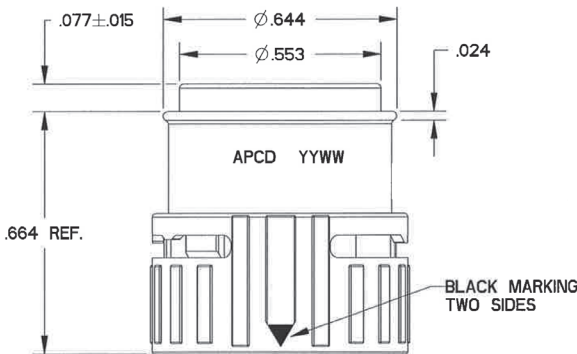
9 Position, Size 16/22 Square Receptacle

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



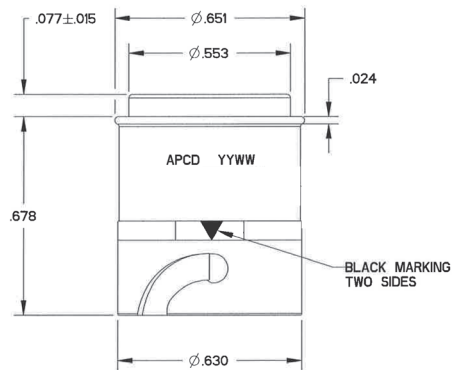
9 Position, Size 16/22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------------------|
| SJS860910 | None          |              |               | 10         | A   | White | SJS860910   | SJS860900<br>SJS0AA730 |
| SJS860911 | 5             | 22           | M39029/57-354 |            |     |       |             |                        |
|           | 4             | 16           | M39029/57-354 |            |     |       |             |                        |



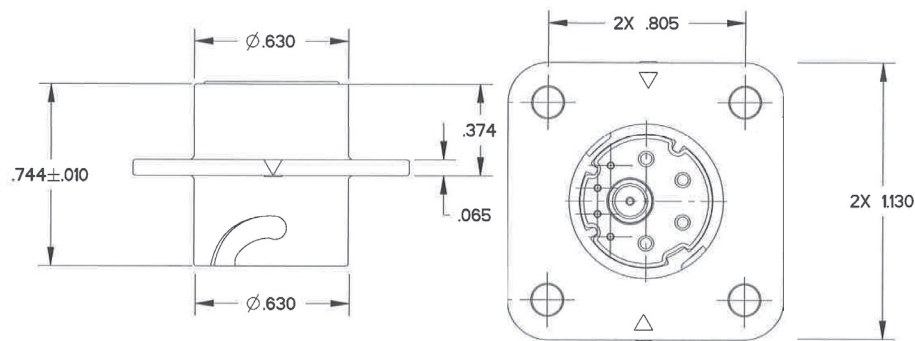
9 Position, Size 16/22 Inline Receptacle

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



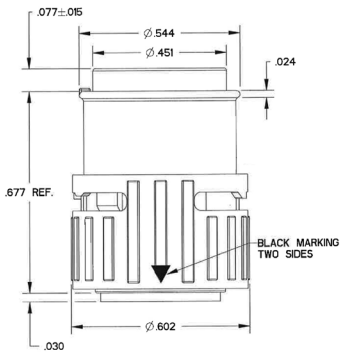
9 Position, Size 16/22 Square Receptacle

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



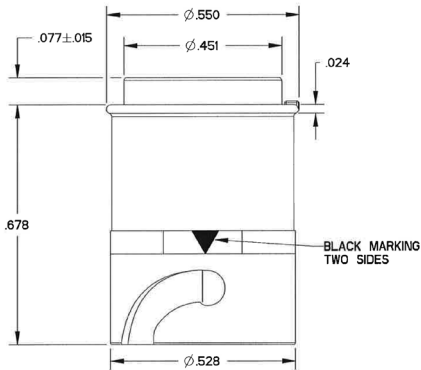
9 Position, Size 22 Inline Plug

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



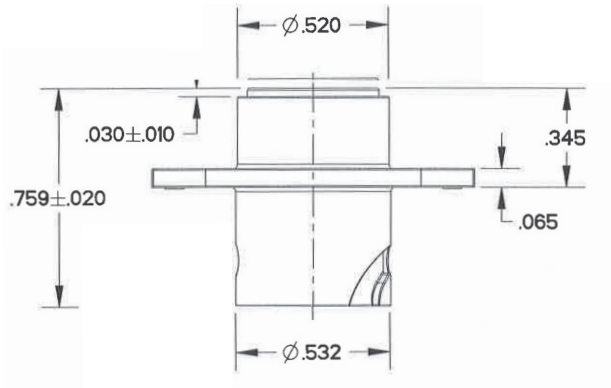
9 Position, Size 22 Inline Receptacle

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



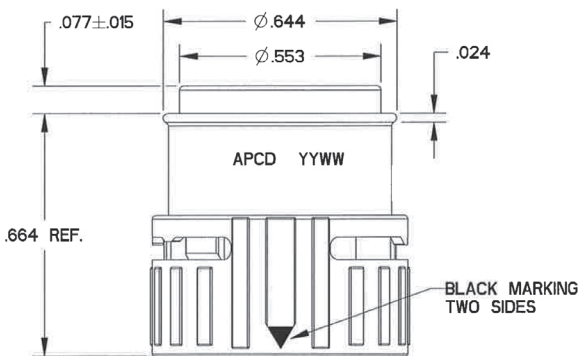
9 Position, Size 22 Square Receptacle

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



10 Position, Size 16/22 Inline Plug

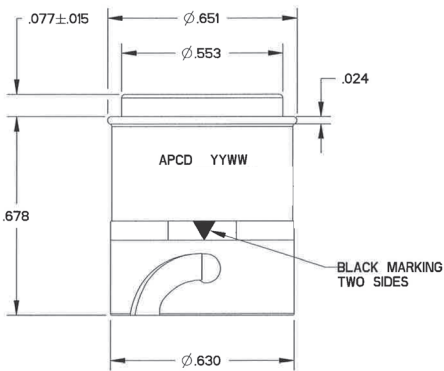
| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS861100 | None          |              |               | 10         |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





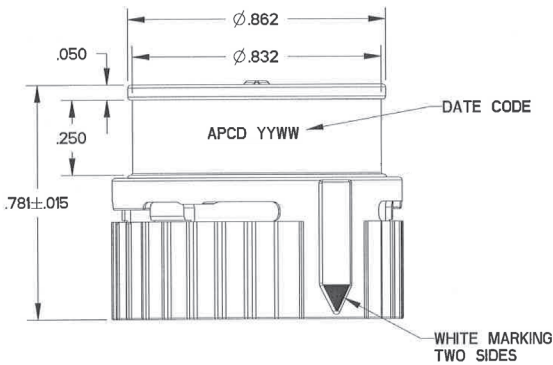
10 Position, Size 16/22 Inline Receptacle

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



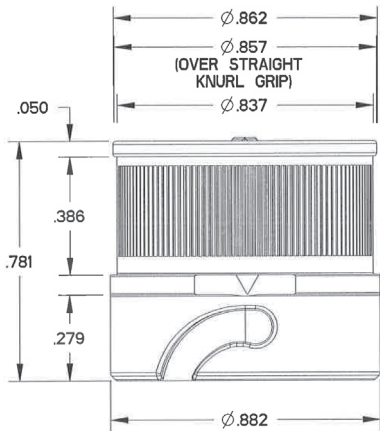
12 Position, Size 16 Inline Plug

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



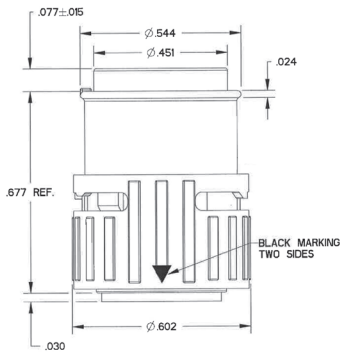
12 Position, Size 16 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS412120 | None          |              |               | 14         | A   | Black | SJS412120   | SJS412110 |
| SJS412121 | 12            | 16           | M39029/58-364 |            |     |       |             |           |



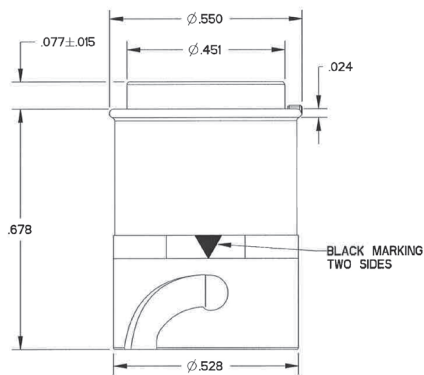
12 Position, Size 22 Inline Plug

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating                 |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|------------------------|
| SJS861300 | None          |              |               | 8          | A   | White | SJS861300   | SJS861400<br>SJS812730 |
| SJS861301 | 12            | 22           | M39029/57-354 |            |     |       |             |                        |



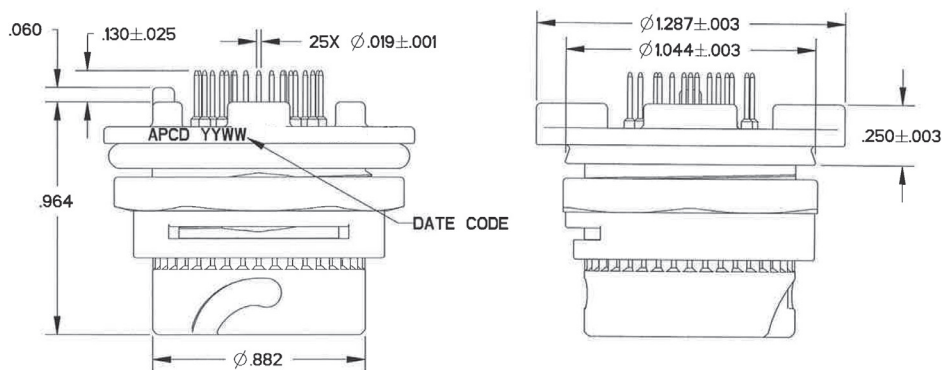
12 Position, Size 22 Inline Receptacle

| APCD P/N  | # of Contacts | Contact Size | Contact P/N   | Shell Size | Key | Color | P/N Marking | Mating    |
|-----------|---------------|--------------|---------------|------------|-----|-------|-------------|-----------|
| SJS861400 | None          |              |               | 8          | A   | White | SJS861400   | SJS861300 |
| SJS861401 | 12            | 22           | M39029/58-360 |            |     |       |             |           |



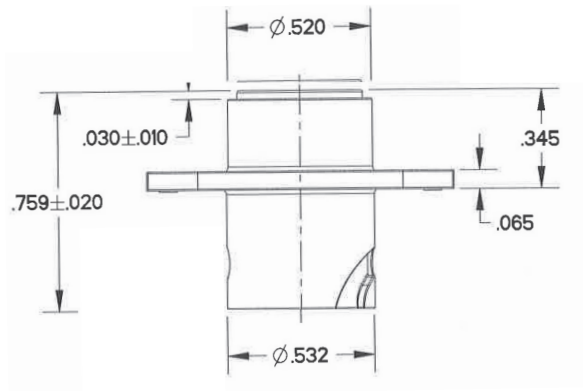
12 Position, Size 22 Jamnut Receptacle

| 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 |
| SJS112261 | 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     |            |     |        |             |           |



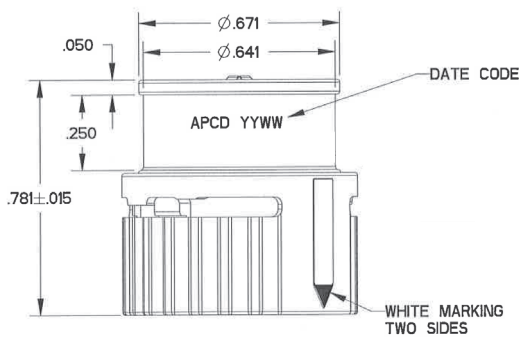
12 Position, Size 22 Square Receptacle

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



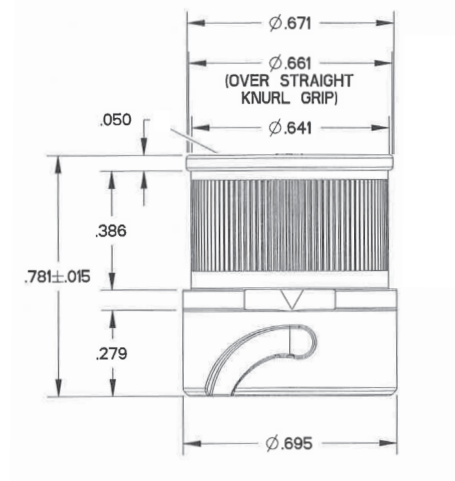
12 Position, Size 22 Inline Plug

| 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 |            |     |        |             |                        |



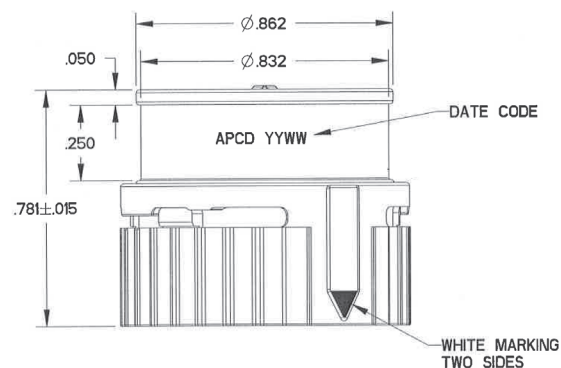
## 12 Position, Size 22 Inline Receptacle

| 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 | 12            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112220 | None          |              |               |            | B   | Green  | SJS112220   | SJS112210 |
| SJS112221 | 12            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112320 | None          |              |               |            | C   | White  | SJS112320   | SJS112310 |
| SJS112321 | 12            | 22           | M39029/58-360 |            |     |        |             |           |
| SJS112420 | None          |              |               |            | D   | Yellow | SJS112420   | SJS112410 |
| SJS112421 | 12            | 22           | M39029/58-360 |            |     |        |             |           |



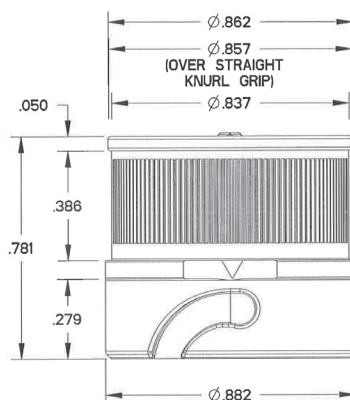
## 25 Position, Size 12 Inline Plug

| 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 |            |     |        |             |                        |



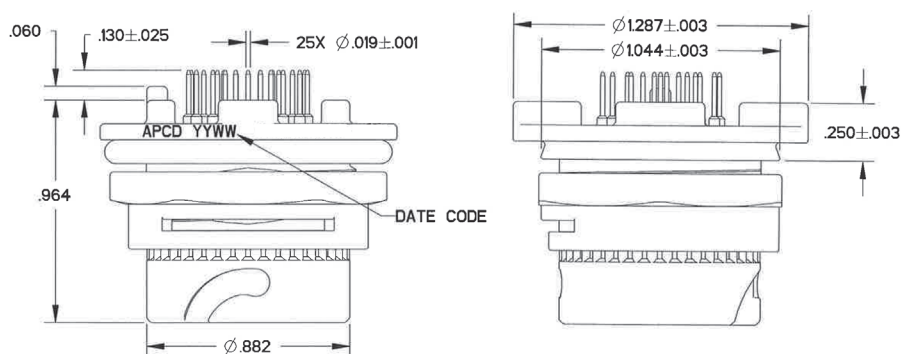
## 25 Position, Size 22 Inline Receptacle

| 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 |            |     |        |             |           |



## 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     |            |     |        |             |           |



## 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 | Epoxy Mount Cradle | Screw Mount Cradle |
|------------|----------------------|--------------------------|--------------------------|----------------------|-------------------------------|--------------------|--------------------|
| 5          | SJSA55000            | SJSA55100                | SJSA55200                | SJSA56000            | SJS257000                     | SJS257000G         | SJS257100          |
| 7          | SJS450350            | SJSA75100                | SJSA75200                | SJSA76000            | SJS883000                     | SJS883000G         | SJS450250          |
| 8          | SJSA85000            | SJSA85100                | SJSA85200                | SJSA86000            | SJS445000                     | SJS445000G         | SJS450100          |
| 10         | SJSA05000            | SJSA05100                | SJSA05200                | SJSA06000            | SJS991000                     | SJS991000G         | SJSA02000          |
| 11         |                      |                          |                          |                      | SJSA13000                     |                    | SJSA12000          |
| 14         | -                    | -                        | -                        | -                    | -                             |                    | SJSA42000          |

| Shell Size | Tube Mount Cradle | Single Side Tape Tube Mount Cradle | Double Side Tape Tube Mount Cradle | Dummy Flanges | Hard Protective Caps | Shielded Hard Protective Caps |
|------------|-------------------|------------------------------------|------------------------------------|---------------|----------------------|-------------------------------|
| 5          | SJSA5V0Y0         | SJS5AV010                          | SJS5AV020                          |               | SJSA5B000            | SJSA5B000P                    |
| 7          | SJSA7V0Y0         | SJSA7V010                          | SJSA7V020                          | SJS830220D    | SJSA7B000            | SJSA7B000P                    |
| 8          | SJSA8V0Y0         | SJSA8V010                          | SJSA8V020                          |               | SJSA8B000            | SJSA8B000P                    |
| 10         | SJSA0V0Y0         | SJSA0V010                          | SJSA0V020                          | SJS0AA730D    | SJSA0B000            | SJSA0B000P                    |
| 11         |                   |                                    |                                    |               |                      | SJS08RCAPM                    |
| 14         | -                 | -                                  | -                                  | -             | -                    | SJS12RCAPM                    |

## Tooling Part Numbers

| # of Positions | Contact Size | Shell Size | Key | Color | Part Numbers |                        |              |             |
|----------------|--------------|------------|-----|-------|--------------|------------------------|--------------|-------------|
| 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 |             |



Wire Information

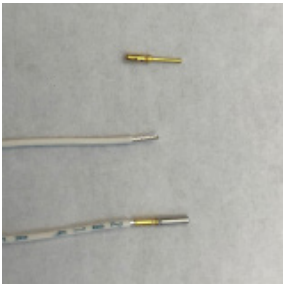
| Contact Size | Wire Size | Insulation O.D | Stripping Length "A" |
|--------------|-----------|----------------|----------------------|
| 8            | 8-10 AWG  | .124-.155 in   | .470 in              |
| 12           | 12-14 AWG | .097-.142 in   | .188 in              |
| 16           | 16-20 AWG | .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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