

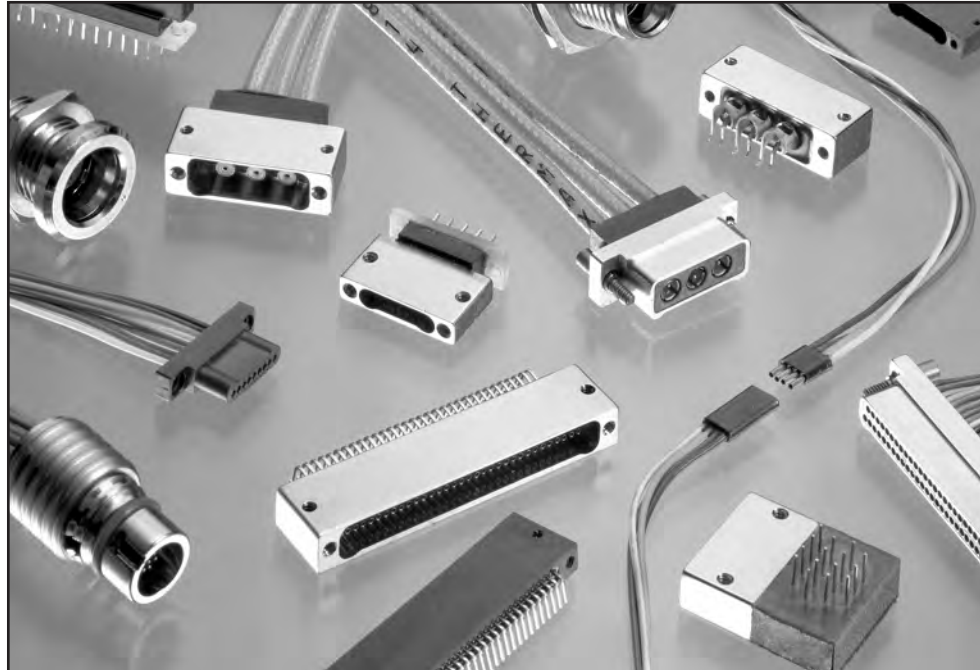
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**Nano-Miniature Connectors - Introduction**



Nano-miniature connectors constitute a family of inter-connect devices with center to center contact spacing of .025". In comparison to other connector families, they are often thought of as the smallest practical connector system for separable interfaces. Despite being smaller, these nano-miniature connectors are tested with a few size-related modifications per the guidelines of MIL-DTL-83513 (written for .050" micro-miniature connectors). Nano-miniature connectors combine their appealing size and weight with desired performance attributes such as high reliability, low contact resistance and wide operating temperature range,

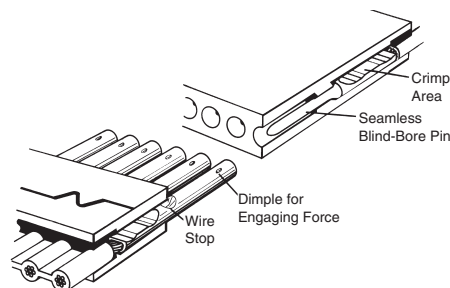
making them among the smallest and toughest connectors available to designers.

**The Contact System**

Nanonics connectors utilize the same contact system throughout the entire product family. This contact system uses a "spring socket" as opposed to most connector designs, which use a "spring pin". In this design, the socket member of the contact pair employs a dimple located inside the contact tube. When the pin is engaged with this socket, the dimple creates the desired spring action by forcing the pin to offset to the opposite side

of the socket tube. The result is a gold-on-gold mating area covering a minimum of 180° of the contact surface. This also creates a desirable mating force of no greater than 6 ounces per contact and a resistance of .003 ~ .008 ohms. This type of contact system begins with a pre-plated BeCu alloy material that is then formed to yield a rugged, seamless contact. Both the blind-bore seamless pin and the seamless one piece socket have a burnished gold finish on both the inside and outside surfaces. This gold finish provides contact integrity for superior reliability and environmental performance.

**Contact Configuration**



## Nano-Miniature Connectors

### Technical and Performance Data

#### Electrical

**Contact Resistance** – .003 - .008 ohms

**Current Rating** – 1 amp max. per contact

**Dielectric Withstanding Voltage** – Volts RMS 60 Hz at room ambient conditions. At sea level 500V. At 70,000 ft. 150V.

**Insulation Resistance** – 5000 megohms min. (@ 500 VDC) at room ambient conditions.

**Magnetic Permeability** – 2 mu max.

#### Mechanical

##### Contact Engagement & Separation

– Engaging force is 6.0 oz. max.  
Separation force is 0.5 oz. min.

##### Mating Force Maximum –

Calculated as 10 oz. multiplied by the number of contacts.

#### Environmental

**Temperature Range** – -200° C to +200° C

**Shock** – No discontinuity in excess of 1  $\mu$  sec. when tested in accordance with MIL-STD-1344, Method 2004.1, Test Condition E.

**Vibration** – No discontinuity in excess of 1  $\mu$  sec. when tested in accordance with MIL-STD-1344, Method 2005.1, Test Condition IV.

**Solderability** – Connectors shall meet the test requirements of MIL-STD-202, Method 208.

**Durability** – No mechanical or electrical defects detrimental to the function of the connectors after 500 cycles of mating and unmating, without the use of hardware.

**Humidity** – After exposure to humidity as specified by MIL-STD-1344, Method 1002.2, Type II, IR shall be 1 megohm min. (@ 100 VDC) within 2 hours of conditioning and 1000 megohms min. (@ 100 VDC) after 24 hours of conditioning.

**Salt Spray** – Connectors shall meet the performance requirements of contact resistance, mating and unmating forces, and contact retention after being subjected to the 48 hour 5 % solution salt spray test per MIL-STD-1344, Method 1001, Condition B.

**Fluid Immersion** – Unmated connectors after being fully immersed in one of the following fluids, for the prescribed time, will mate at a force of 10 oz. multiplied by the number of contacts or less: Perchloroethylene, 2 hours; Lubricating oil per MIL-L-23699, 20 hours.

##### Crimp Tensile Strength –

(Unassembled contacts with crimped stranded wire terminations) Wires will not pull out of the contacts when the following axial load is applied: #30 AWG, 2 lbs.

##### Thermal Vacuum Outgassing –

Connectors shall have a maximum total mass loss (TML) of 1.0 % of the original specimen mass and a maximum collected volatile condensable materials (CVCM) content of 0.1 % of the original specimen mass when tested in accordance with SP-R-0022A.

#### Material and Finish

**Contacts** – BeCu alloy plated with gold per MIL-G-45204 Type II over nickel per QQ-N-290.

##### Plastic Insulators and Shells –

30% glassed filled Liquid Crystal Polymer (LCP).

**Metal Shells** – 6061-T6 Aluminum with electroless nickel plating per MIL-C-26074. Stainless steel and gold plated shells are also available.

**DUALOBE Rectangular Connectors**



Nanonics D-style rectangular connectors have earned the distinction of being the most popular and widely utilized style of Nano connectors. These connectors incorporate the DUALOBE polarization scheme. This polarization scheme negates the need for mating guide pins and does not increase the package size. The DUALOBE series of connectors are available in both machined aluminum and molded plastic shells, both in one and two row connector housings. Single row configurations commonly have standard pin counts from 5 to 51, while the higher density two row configurations have pin counts from 9 to 65. These connectors can be terminated in many different ways. Standard configurations include wires, surface mount, thru-hole, solder

cup, "duckbill", and panel mount. Wired harness assemblies and custom configurations can also be accommodated. Such custom configurations include filtered, hermetic, environmentally sealed, and blind mate connectors.

This family of connectors is designed to meet the requirements of MIL-DTL-83513, with a few size related modifications. Designed primarily for the military and aerospace industry, the DUALOBE series is especially well suited when high reliability, coupled with reduced size and weight, are serious design parameters. A clear example of this is the use of Nanonics connectors in such applications as smart munitions, missile defense, aircraft communications, and UAV's. In addition to the above applications, with

the wide temperature range of the DUALOBE connector (-200°C to +200°C), the space and petroleum industries have also found many uses for this connector. The performance and reliability at cryogenic temperatures, along with the low outgassing material properties, has led to an increased usage in space applications. Such applications include nitrogen-cooled optics, low and high earth orbiting satellites, telescopes, deep space probes, orbiters, and rovers. On the opposite end of the spectrum, the petroleum exploration industry utilizes these connectors for their performance and reliability in downhole environments at temperatures exceeding 150°C.

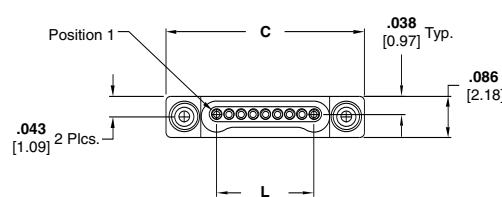
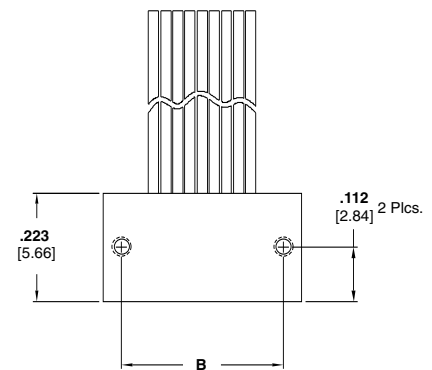
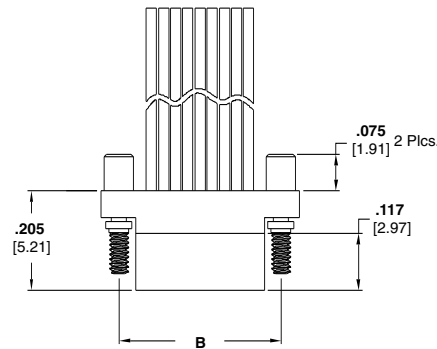
**Wired Connectors — Single Row, Flying Leads**



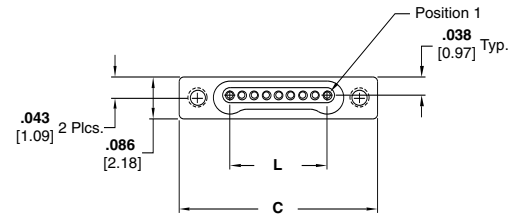
Plug



Receptacle



Plug with Flying Leads  
Drawing Number 1589455



Receptacle with Flying Leads  
Drawing Number 1589457

**Product Facts**

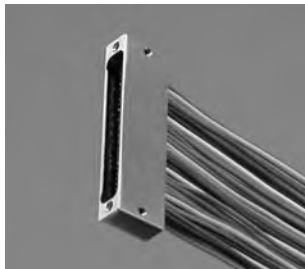
- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations

| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 5    | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 1.033 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |

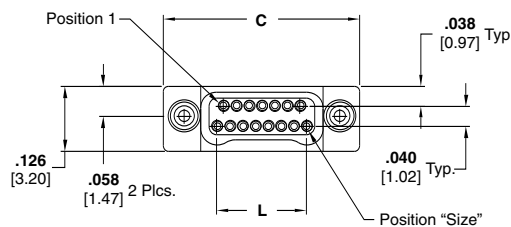
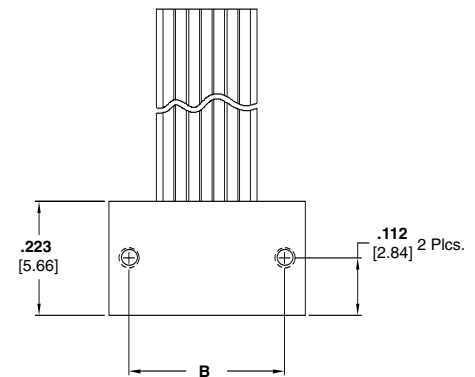
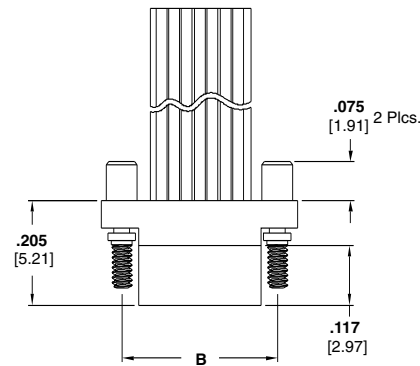
**Wired Connectors — Two Row, Flying Leads**



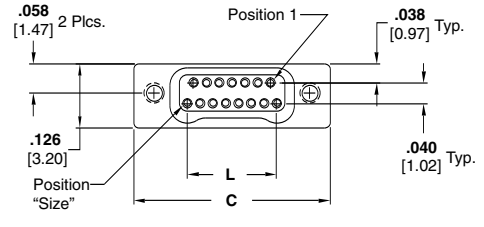
Plug



Receptacle



Plug with Flying Leads  
Drawing Number 1589472



Receptacle with Flying Leads  
Drawing Number 1589476

**Product Facts**

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations

| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 9    | 0.229 [5.82]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 15   | 0.304 [7.72]  | 0.3835 [9.74]  | 0.175 [4.45]  |
| 25   | 0.429 [10.90] | 0.5085 [12.92] | 0.300 [7.62]  |
| 37   | 0.579 [14.71] | 0.6585 [16.73] | 0.450 [11.43] |
| 51   | 0.754 [19.15] | 0.8335 [21.17] | 0.625 [15.88] |
| 65   | 0.929 [23.60] | 1.0085 [25.62] | 0.800 [20.32] |



**Part Numbering Guideline for Wired Connectors**

**DUALOBE Connectors - Wire Terminations**

| Class                            | S | X | X | XXX | XX | X | XX | XXX | X | Threads/Jackscrew                                                                                                                                                                                                                                                                                       |
|----------------------------------|---|---|---|-----|----|---|----|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S Duallobe                       |   |   |   |     |    |   |    |     |   | <b>Threads (Receptacles Only)</b><br><b>N</b> Thread for 1.0 mm Jackscrews<br><b>Q</b> Thread for 1.2 mm Jackscrews                                                                                                                                                                                     |
| <b>Rows</b>                      |   |   |   |     |    |   |    |     |   | <b>Jackscrews (Plugs Only)</b><br><b>M</b> 1.0 mm Non Captive Jackscrew<br><b>N</b> 1.0 mm Captive Jackscrew<br><b>Q</b> 1.2 mm Captive Jackscrew                                                                                                                                                       |
| S 1 Row                          |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| T 2 Row                          |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| <b>Type</b>                      |   |   |   |     |    |   |    |     |   | <b>Conductor Length</b><br><b>XXX</b> Three numbers only, length is in inches ( i.e. 012 = twelve inches)<br><b>CXX</b> A "C" followed by two numbers, length is in centimeters ( i.e. C06 = six centimeters)<br><b>MX</b> An "M" followed by two numbers, length is in meters ( i.e. M02 = two meters) |
| L LCP (Plastic)                  |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| M Metal (Al, Ni Plate)           |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| <b>Positions</b>                 |   |   |   |     |    |   |    |     |   | <b>Conductor Type</b><br><b>DX</b> White TEFLON<br><b>DY</b> White PTFE M16878/6<br><b>DC</b> Color Coded TEFLON<br><b>DM</b> Color Coded TEFLON per MIL-STD-681<br><b>DT</b> White TEFZEL M22759/33<br><b>GX</b> TEFLON Ribbon Cable FEP                                                               |
| 005 5 Position (single row only) |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| 009 9 Position                   |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| 015 15 Position                  |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| 025 25 Position                  |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| 037 37 Position                  |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| 051 51 Position                  |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| 065 65 Position (two row only)   |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| <b>Configurations</b>            |   |   |   |     |    |   |    |     |   | <b>Conductor Size/Strands</b><br><b>0</b> 28 AWG Solid<br><b>1</b> 30 AWG Solid<br><b>2</b> 30 AWG 7 Strand<br><b>3</b> 32 AWG 7 Strand<br><b>4</b> 34 AWG 7 Strand                                                                                                                                     |
| PC Plug                          |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |
| SC Receptacle                    |   |   |   |     |    |   |    |     |   |                                                                                                                                                                                                                                                                                                         |



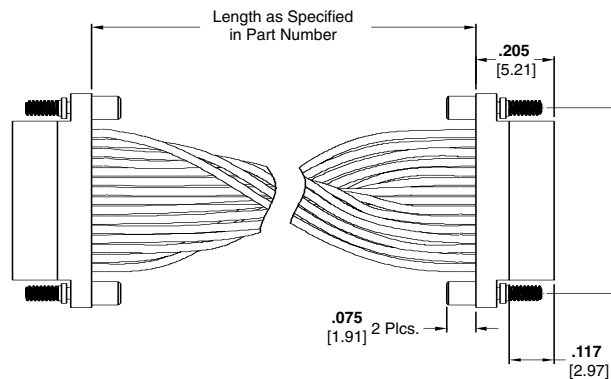
**Jumper Assembly Connectors — Single Row**



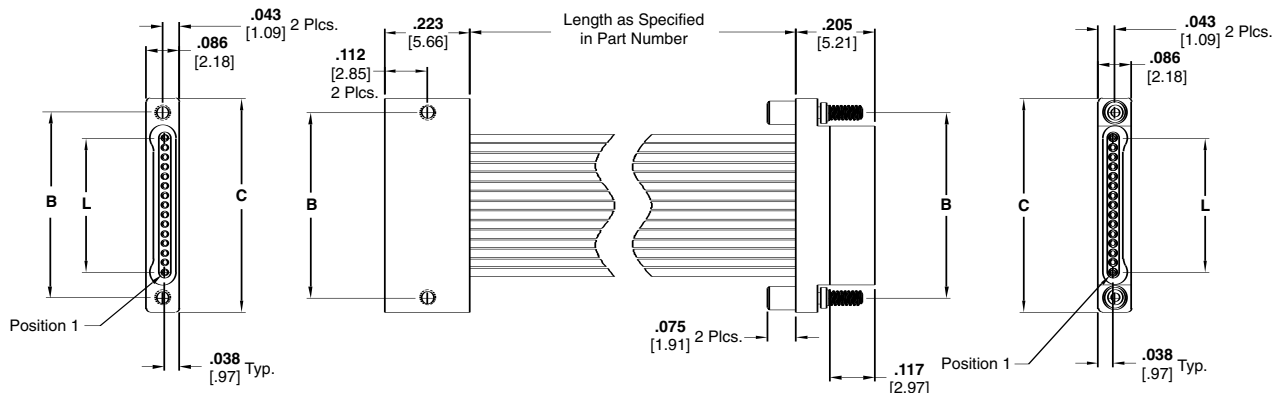
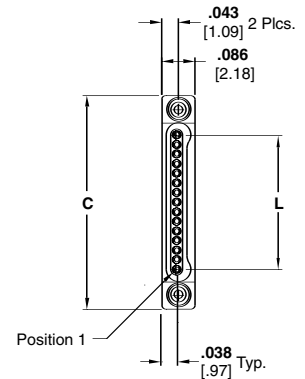
Plug to Receptacle

**Product Facts**

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations



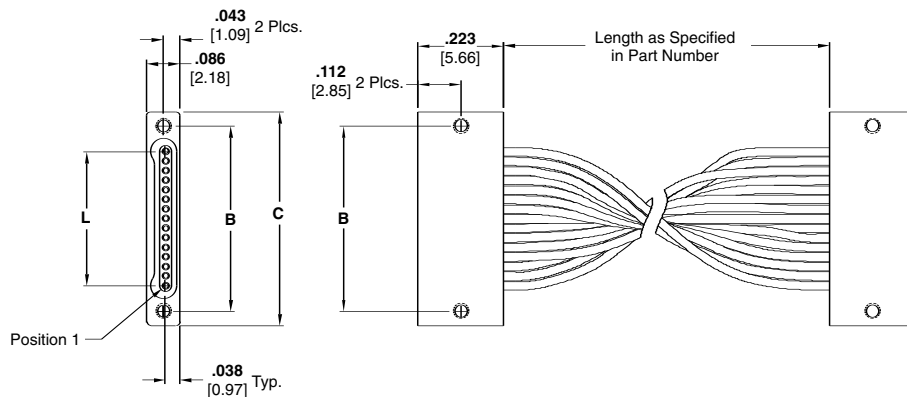
Plug to Plug  
Drawing Number 1589735



Plug to Receptacle  
Drawing Number 1589736

| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 5    | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 1.033 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |

**Jumper Assembly Connectors — Single Row** (Continued)



**Receptacle to Receptacle**  
**Drawing Number 1589803**

| Size | Dimensions           |                       |                      |
|------|----------------------|-----------------------|----------------------|
|      | B                    | C                     | L                    |
| 5    | <b>0.233</b> [5.92]  | <b>0.3085</b> [7.84]  | <b>0.100</b> [2.54]  |
| 9    | <b>0.333</b> [8.46]  | <b>0.4085</b> [10.38] | <b>0.200</b> [5.08]  |
| 15   | <b>0.483</b> [12.27] | <b>0.5585</b> [14.19] | <b>0.350</b> [8.89]  |
| 25   | <b>0.733</b> [18.62] | <b>0.8085</b> [20.54] | <b>0.600</b> [15.24] |
| 37   | <b>1.033</b> [26.24] | <b>1.1085</b> [28.16] | <b>0.900</b> [22.86] |
| 51   | <b>1.383</b> [35.13] | <b>1.4585</b> [37.05] | <b>1.250</b> [31.75] |

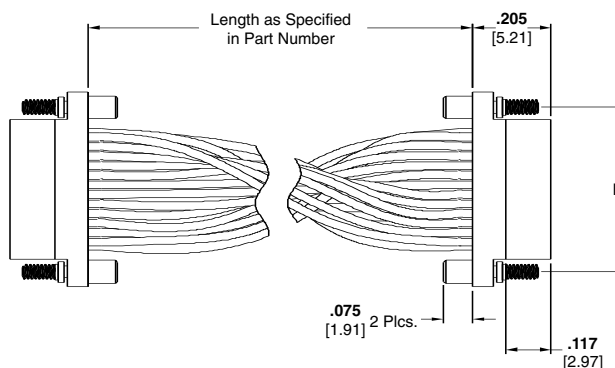
**Jumper Assembly Connectors — Two Row**



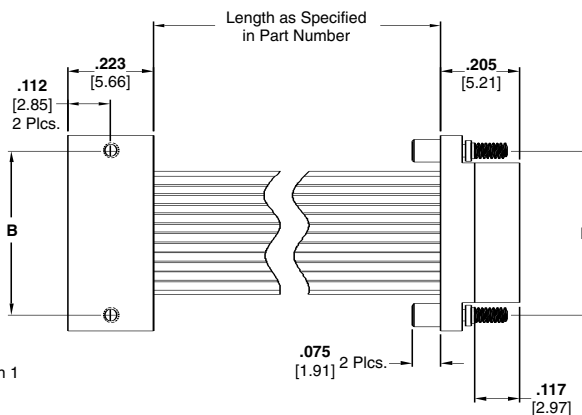
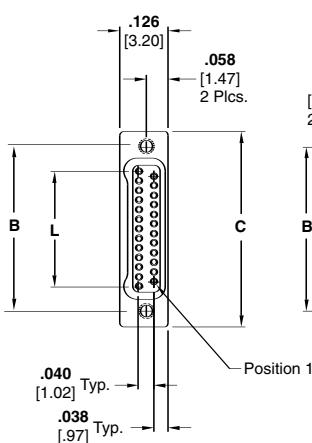
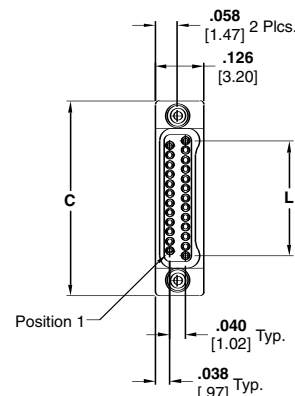
Plug to Receptacle

**Product Facts**

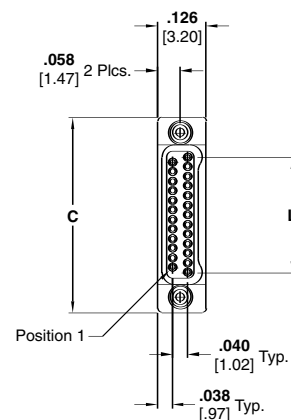
- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations



Plug to Plug  
Drawing Number 1589737

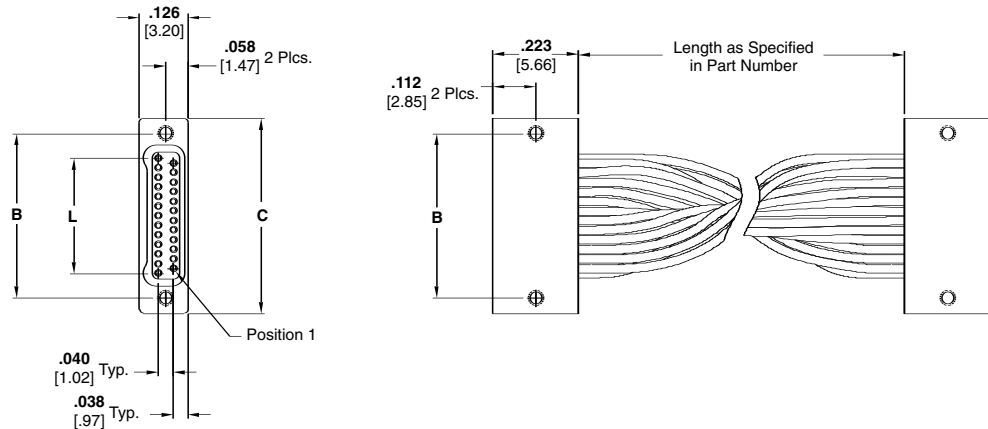


Plug to Receptacle  
Drawing Number 1589738



| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 9    | 0.229 [5.82]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 15   | 0.304 [7.72]  | 0.3835 [9.74]  | 0.175 [4.45]  |
| 25   | 0.429 [10.90] | 0.5085 [12.92] | 0.300 [7.62]  |
| 37   | 0.579 [14.71] | 0.6585 [16.73] | 0.450 [11.43] |
| 51   | 0.754 [19.15] | 0.8335 [21.17] | 0.625 [15.88] |
| 65   | 0.929 [23.60] | 1.0085 [25.62] | 0.800 [20.32] |

**Jumper Assembly Connectors — Two Row (Continued)**



**Receptacle to Receptacle**  
**Drawing Number 1589804**

| Size | Dimensions           |                       |                      |
|------|----------------------|-----------------------|----------------------|
|      | B                    | C                     | L                    |
| 9    | <b>0.229</b> [5.82]  | <b>0.3085</b> [7.84]  | <b>0.100</b> [2.54]  |
| 15   | <b>0.304</b> [7.72]  | <b>0.3835</b> [9.74]  | <b>0.175</b> [4.45]  |
| 25   | <b>0.429</b> [10.90] | <b>0.5085</b> [12.92] | <b>0.300</b> [7.62]  |
| 37   | <b>0.579</b> [14.71] | <b>0.6585</b> [16.73] | <b>0.450</b> [11.43] |
| 51   | <b>0.754</b> [19.15] | <b>0.8335</b> [21.17] | <b>0.625</b> [15.88] |
| 65   | <b>0.929</b> [23.60] | <b>1.0085</b> [25.62] | <b>0.800</b> [20.32] |

Part Numbering Guideline for Jumper Assemblies

DUALOBE Connectors - Jumper Terminations

| Class                               | J | X | X | XXX | XX | X | XX | XXX | X | Threads/Jackscrews                                                                                 |
|-------------------------------------|---|---|---|-----|----|---|----|-----|---|----------------------------------------------------------------------------------------------------|
| J Jumper                            |   |   |   |     |    |   |    |     |   | <div>Threads (Receptacles Only)</div> <div>Jack screws (Plugs Only)</div>                          |
| Rows                                |   |   |   |     |    |   |    |     |   | <div>N Thread for 1.0 mm Jack screws</div> <div>M 1.0 mm Non Captive Jack screws</div>             |
| S 1 Row                             |   |   |   |     |    |   |    |     |   | <div>N 1.0 mm Captive Jack screws</div>                                                            |
| T 2 Row                             |   |   |   |     |    |   |    |     |   | <div>Q Thread for 1.2 mm Jack screws</div> <div>Q 1.2 mm Captive Jack screws</div>                 |
| Type                                |   |   |   |     |    |   |    |     |   | Conductor Length                                                                                   |
| L LCP (Plastic)                     |   |   |   |     |    |   |    |     |   | <div>XXX Three numbers only, length is in inches ( i.e. 012 = twelve inches)</div>                 |
| M Metal (Al, Ni Plate)              |   |   |   |     |    |   |    |     |   | <div>CXX A "C" followed by two numbers, length is in centimeters ( i.e. C06 = 6 centimeters)</div> |
| Positions                           |   |   |   |     |    |   |    |     |   | <div>MXX An "M" followed by two numbers, length is in meters ( i.e. M02 = 2 meters)</div>          |
| 005 5 Position (single row only)    |   |   |   |     |    |   |    |     |   | Conductor Type                                                                                     |
| 009 9 Position                      |   |   |   |     |    |   |    |     |   | <div>DX White Teflon</div> <div>DM Color Coded Teflon per MIL-STD-681</div>                        |
| 015 15 Position                     |   |   |   |     |    |   |    |     |   | <div>DY White PTFE M16878/6</div> <div>DT White Tefzel M22759/33</div>                             |
| 025 25 Position                     |   |   |   |     |    |   |    |     |   | <div>DC Color Coded Teflon</div> <div>GX Teflon Ribbon Cable</div>                                 |
| 037 37 Position                     |   |   |   |     |    |   |    |     |   | Conductor Size/Strands                                                                             |
| 051 51 Position                     |   |   |   |     |    |   |    |     |   | <div>0 28 AWG Solid</div>                                                                          |
| 065 65 Position (two row only)      |   |   |   |     |    |   |    |     |   | <div>1 30 AWG Solid</div>                                                                          |
| Configuration                       |   |   |   |     |    |   |    |     |   | <div>2 30 AWG 7 Strand</div>                                                                       |
| PP Plug to Plug, 1 to 1             |   |   |   |     |    |   |    |     |   | <div>3 32 AWG 7 Strand</div>                                                                       |
| PR Plug to Receptacle, 1 to 1       |   |   |   |     |    |   |    |     |   | <div>4 34 AWG 7 Strand</div>                                                                       |
| PD Plug to Plug, low to high in row |   |   |   |     |    |   |    |     |   |                                                                                                    |
| RR Receptacle to Receptacle, 1 to 1 |   |   |   |     |    |   |    |     |   |                                                                                                    |

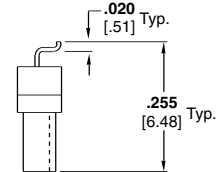
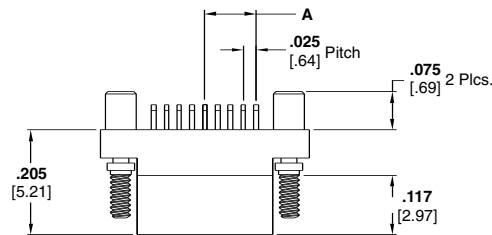
Surface Mount Connectors — Horizontal, Single Row



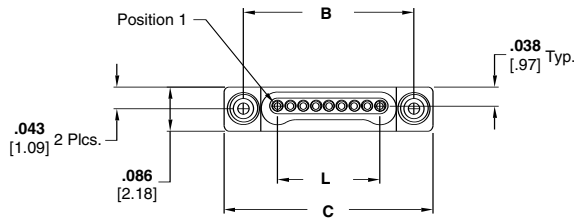
Receptacle

Product Facts

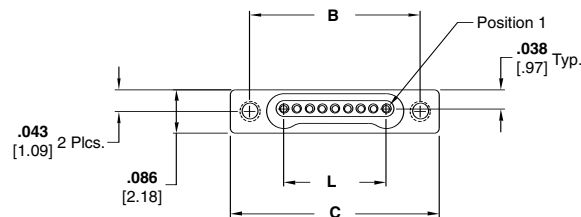
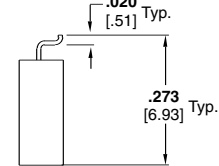
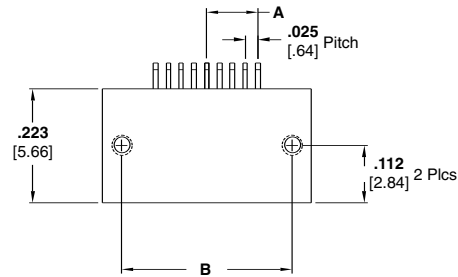
- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website



Jackscrews Omitted for Clarity



Plug Assembly  
Drawing Number 1589460



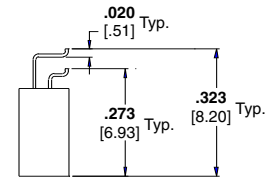
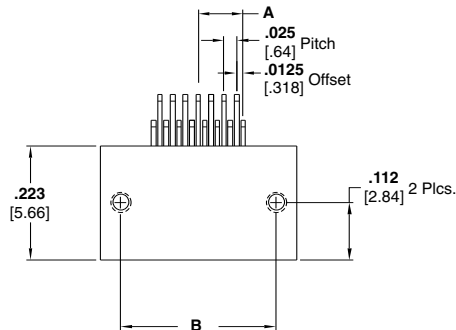
Receptacle Assembly  
Drawing Number 1589462

| Size | Dimensions    |               |                |               |
|------|---------------|---------------|----------------|---------------|
|      | A             | B             | C              | L             |
| 5    | 0.050 [1.27]  | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.100 [2.54]  | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.175 [4.45]  | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.300 [7.62]  | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 0.450 [11.43] | 1.085 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 0.625 [15.88] | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |

Surface Mount Connectors — Horizontal, Two Row

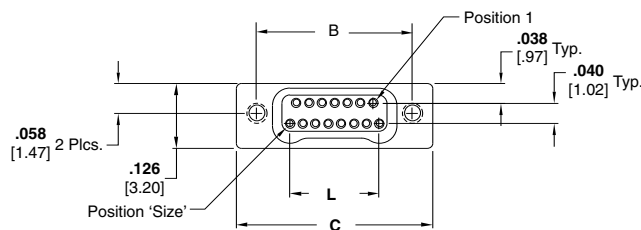


Receptacle

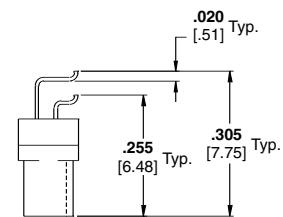
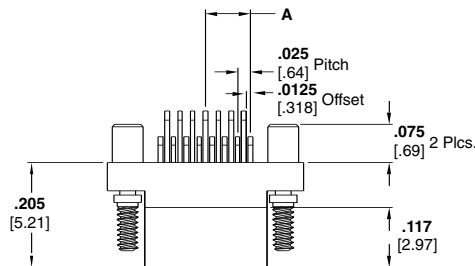


Product Facts

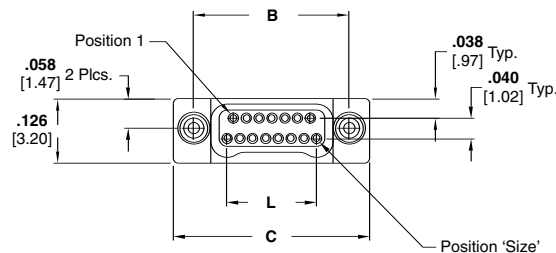
- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website



Receptacle Assembly  
Drawing Number 1589483



Jackscrews Omitted for Clarity



Plug Assembly  
Drawing Number 1589490

| Size | Dimensions    |               |                |               |
|------|---------------|---------------|----------------|---------------|
|      | A             | B             | C              | L             |
| 9    | 0.050 [1.27]  | 0.229 [5.82]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 15   | 0.075 [2.23]  | 0.304 [7.72]  | 0.3835 [9.74]  | 0.175 [4.45]  |
| 25   | 0.150 [3.81]  | 0.429 [10.90] | 0.5085 [12.92] | 0.300 [8.89]  |
| 37   | 0.225 [5.72]  | 0.579 [14.71] | 0.6585 [16.73] | 0.450 [11.43] |
| 51   | 0.313 [7.95]  | 0.754 [19.15] | 0.8335 [21.17] | 0.625 [15.88] |
| 65   | 0.400 [10.16] | 0.929 [23.60] | 1.0085 [25.62] | 0.800 [20.32] |



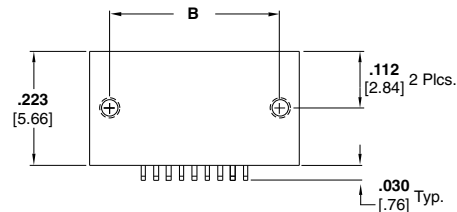
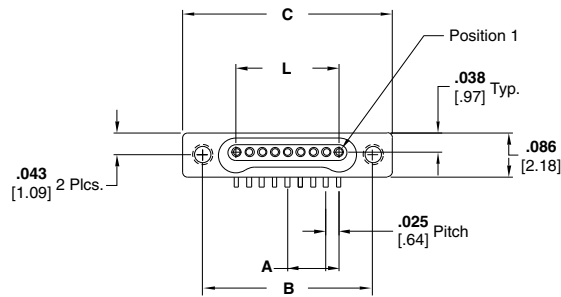
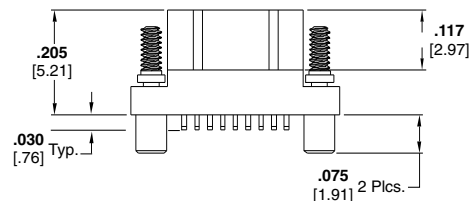
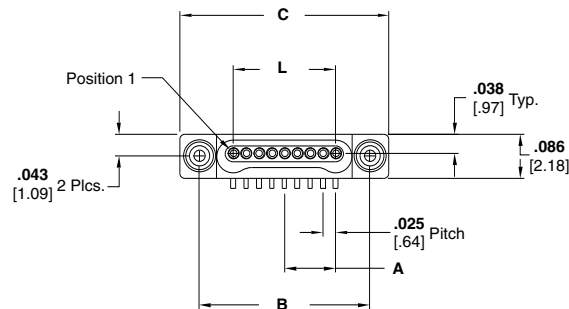
## Surface Mount Connectors — Vertical, Single Row



Receptacle

## Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website

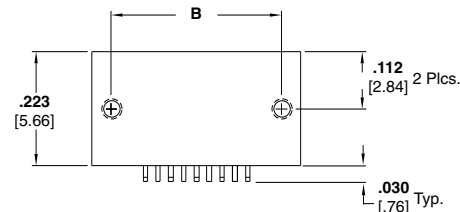
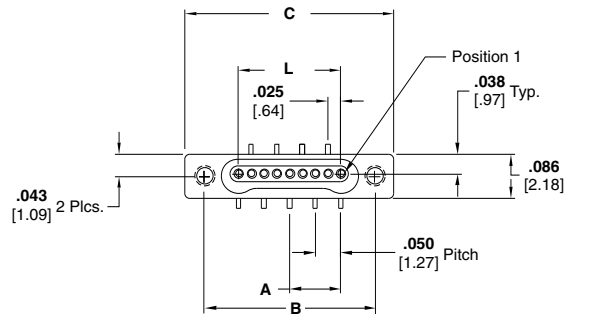

 Receptacle Assembly  
Drawing Number 1589463

 Plug Assembly  
Drawing Number 1589465

| Size | Dimensions    |               |                |               |
|------|---------------|---------------|----------------|---------------|
|      | A             | B             | C              | L             |
| 5    | 0.050 [1.27]  | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.100 [2.54]  | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.175 [4.45]  | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.300 [7.62]  | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 0.450 [11.43] | 1.085 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 0.625 [15.88] | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |

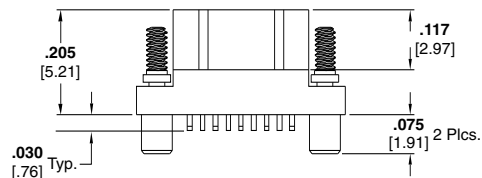
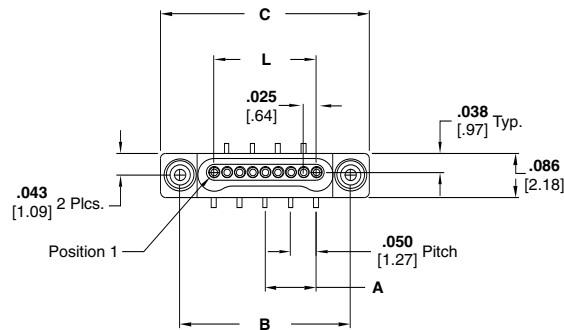
Surface Mount Connectors — Vertical, Single Row with Alternating Leads

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website



Receptacle Assembly  
Drawing Number 1589464



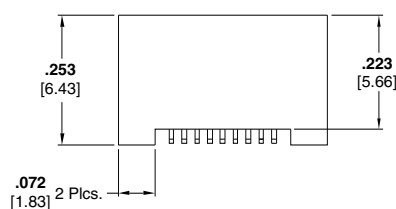
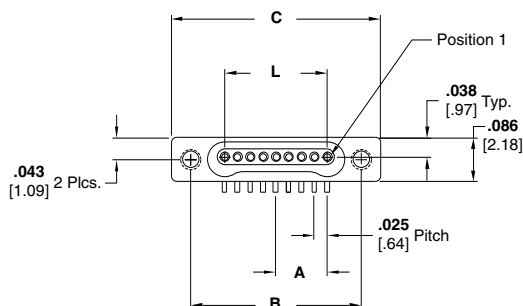
Plug Assembly  
Drawing Number 1589466

| Size | Dimensions    |               |                |               |
|------|---------------|---------------|----------------|---------------|
|      | A             | B             | C              | L             |
| 5    | 0.050 [1.27]  | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.100 [2.54]  | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.175 [4.45]  | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.300 [7.62]  | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 0.450 [11.43] | 1.085 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 0.625 [15.88] | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |

Surface Mount Connectors — Vertical, Single Row with Integrated Standoffs

Product Facts

- Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website



Receptacle Assembly  
Drawing Number 1589467

| Size | Dimensions    |               |                |               |
|------|---------------|---------------|----------------|---------------|
|      | A             | B             | C              | L             |
| 5    | 0.050 [1.27]  | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.100 [2.54]  | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.175 [4.45]  | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.300 [7.62]  | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 0.450 [11.43] | 1.085 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 0.625 [15.88] | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |

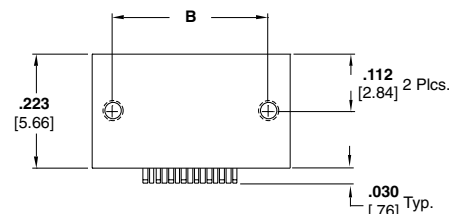
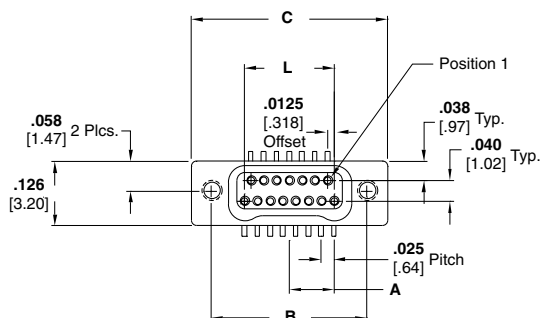
Surface Mount Connectors — Vertical, Two Row



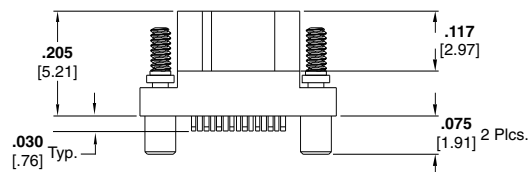
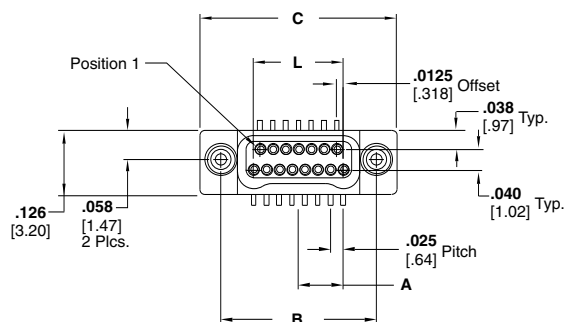
Receptacle

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website



Receptacle Assembly  
Drawing Number 1589484



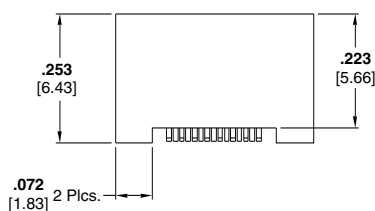
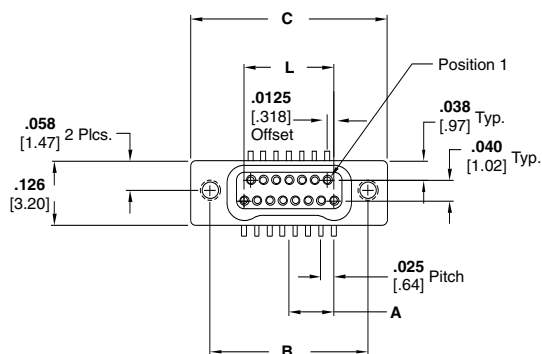
Plug Assembly  
Drawing Number 1589485

| Size | Dimensions    |               |                |               |
|------|---------------|---------------|----------------|---------------|
|      | A             | B             | C              | L             |
| 9    | 0.050 [1.27]  | 0.229 [5.82]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 15   | 0.075 [2.23]  | 0.304 [7.72]  | 0.3835 [9.74]  | 0.175 [4.45]  |
| 25   | 0.150 [3.81]  | 0.429 [10.90] | 0.5085 [12.92] | 0.300 [8.89]  |
| 37   | 0.225 [5.72]  | 0.579 [14.71] | 0.6585 [16.73] | 0.450 [11.43] |
| 51   | 0.313 [7.95]  | 0.754 [19.15] | 0.8335 [21.17] | 0.625 [15.88] |
| 65   | 0.400 [10.16] | 0.929 [23.60] | 1.0085 [25.62] | 0.800 [20.32] |

Surface Mount Connectors — Vertical, Two Row with Integrated Standoffs

Product Facts

- Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website



Receptacle Assembly  
Drawing Number 1589486

| Size | Dimensions    |               |                |              |
|------|---------------|---------------|----------------|--------------|
|      | A             | B             | C              | L            |
| 9    | 0.050 [1.27]  | 0.229 [5.82]  | 0.3085 [7.84]  | .100 [2.54]  |
| 15   | 0.875 [2.23]  | 0.304 [7.72]  | 0.3835 [9.74]  | .175 [4.45]  |
| 25   | 0.150 [3.81]  | 0.429 [10.90] | 0.5085 [12.92] | .300 [8.89]  |
| 37   | 0.225 [5.72]  | 0.579 [14.71] | 0.6585 [16.73] | .450 [11.43] |
| 51   | 0.313 [7.95]  | 0.754 [19.15] | 0.8335 [21.17] | .625 [15.88] |
| 65   | 0.400 [10.16] | 0.929 [23.60] | 1.0085 [25.62] | .800 [20.32] |

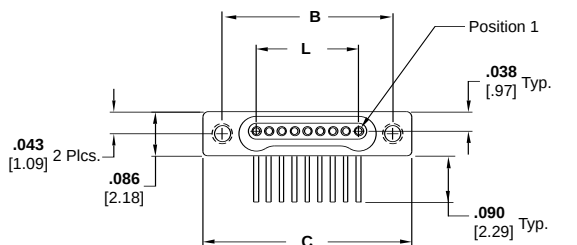
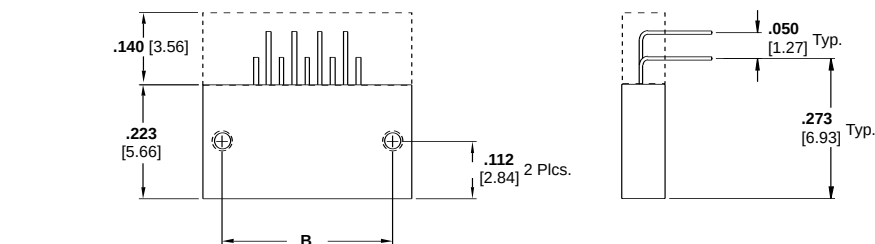
**Thru-Hole Connectors — Horizontal, 1 Row to 2 Row, .050 Spacing**



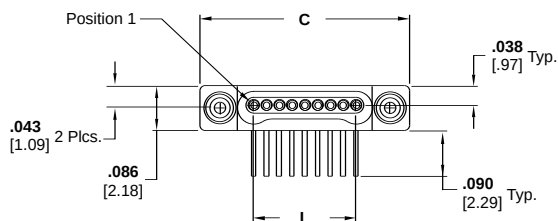
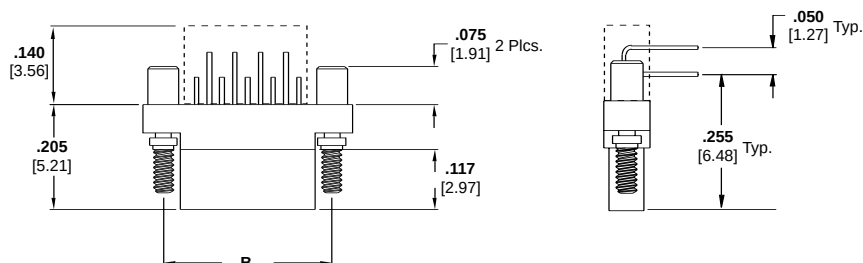
Receptacle

**Product Facts**

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact Tyco Electronics for custom configurations
- Suggested thru-hole layouts are available on the referenced drawings on the Tyco Electronics website



Receptacle Assembly  
Drawing Number 1589469



Plug Assembly  
Drawing Number 1589471

| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 5    | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 1.033 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |

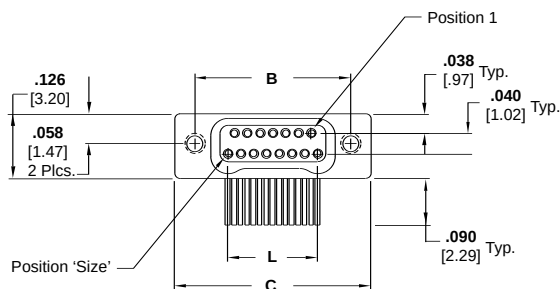
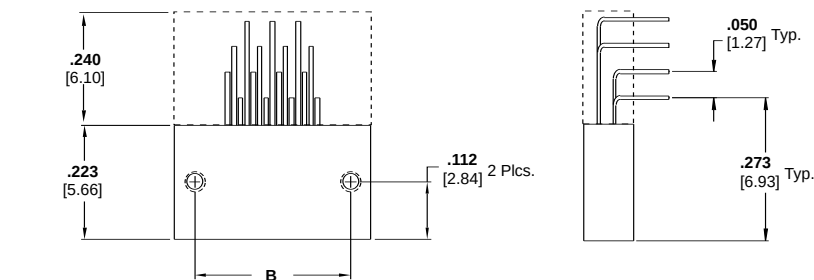
**Thru-Hole Connectors — Horizontal, 2 Row to 4 Row, .050 Spacing**



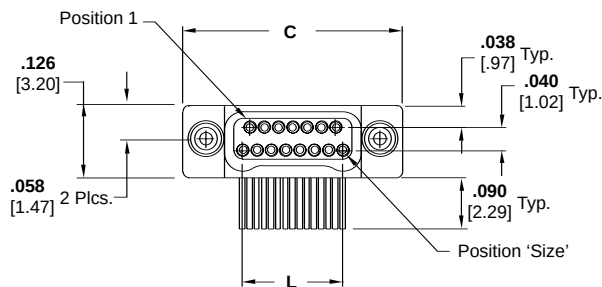
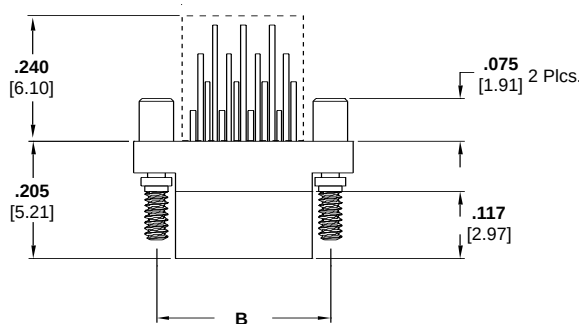
Receptacle

**Product Facts**

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations
- Suggested thru-hole layouts are available on the referenced drawings on the Tyco Electronics website



Receptacle Assembly  
Drawing Number 1589487



Plug Assembly  
Drawing Number 1589481

| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 9    | 0.229 [5.82]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 15   | 0.304 [7.72]  | 0.3835 [9.74]  | 0.175 [4.45]  |
| 25   | 0.429 [10.90] | 0.5085 [12.92] | 0.300 [7.62]  |
| 37   | 0.579 [14.71] | 0.6585 [16.73] | 0.450 [11.43] |
| 51   | 0.754 [19.15] | 0.8335 [21.17] | 0.625 [15.88] |
| 65   | 0.929 [23.60] | 1.0085 [25.62] | 0.800 [20.32] |

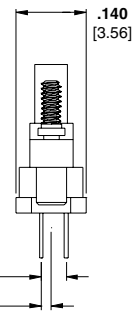
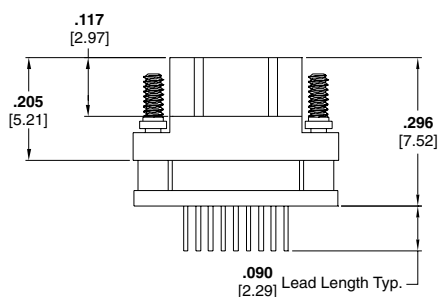
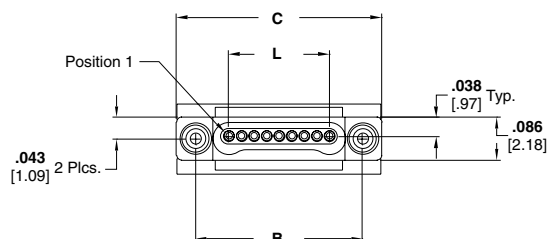
**Thru-Hole Connectors — Vertical Mount, 1 Row to 2 Row Connectors, .050 Spacing**



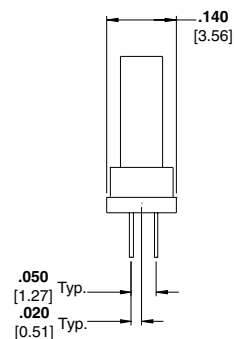
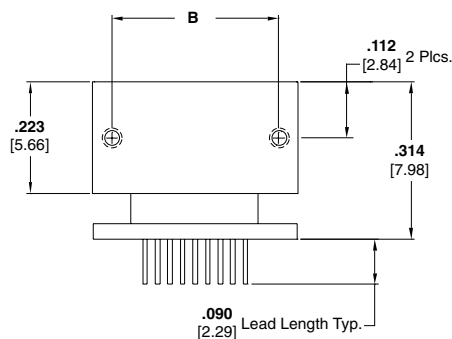
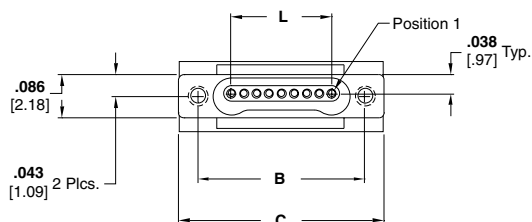
Receptacle

**Product Facts**

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37 and 51
- Contact Tyco Electronics for custom configurations
- Suggested thru-hole layouts are available on the referenced drawings on the Tyco Electronics website



**Plug Assembly**  
Drawing Number 1589461



**Receptacle Assembly**  
Drawing Number 1589470

| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 5    | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 1.033 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |



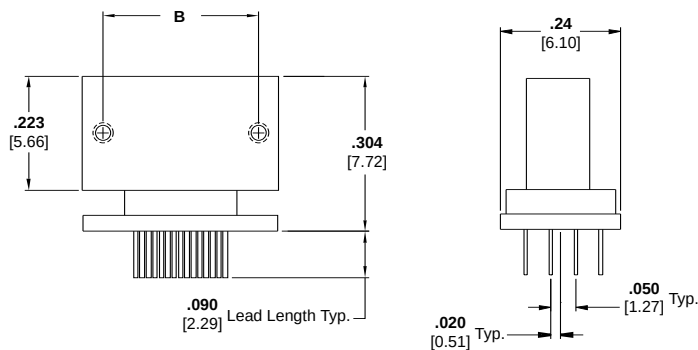
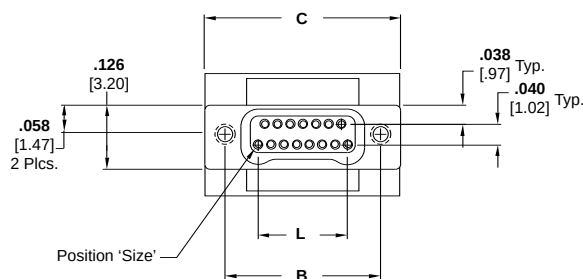
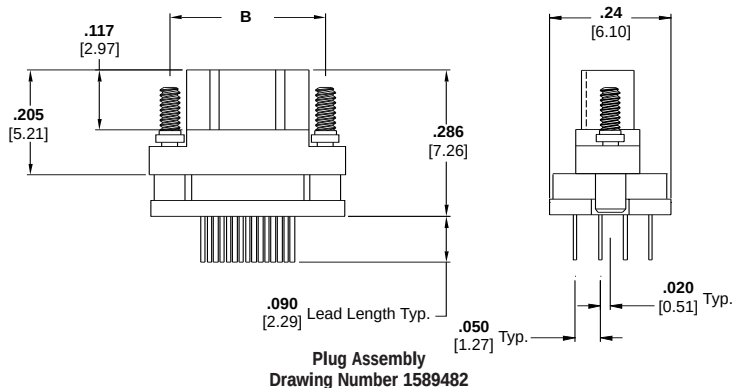
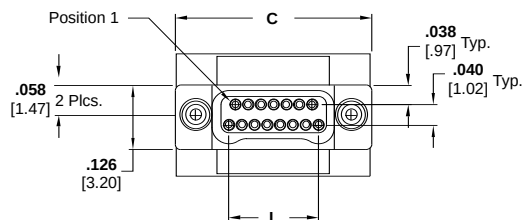
**Thru-Hole Connectors — Vertical Mount, 2 Row to 4 Row Connectors, .050 Spacing**



Receptacle

**Product Facts**

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations
- Suggested thru-hole layouts are available on the referenced drawings on the Tyco Electronics website



| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 9    | 0.229 [5.82]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 15   | 0.304 [7.72]  | 0.3835 [9.74]  | 0.175 [4.45]  |
| 25   | 0.429 [10.90] | 0.5085 [12.92] | 0.300 [7.62]  |
| 37   | 0.579 [14.71] | 0.6585 [16.73] | 0.450 [11.43] |
| 51   | 0.754 [19.15] | 0.8335 [21.17] | 0.625 [15.88] |
| 65   | 0.929 [23.60] | 1.0085 [25.62] | 0.800 [20.32] |

Part Numbering Guideline for Surface Mount and Thru-Hole Connectors

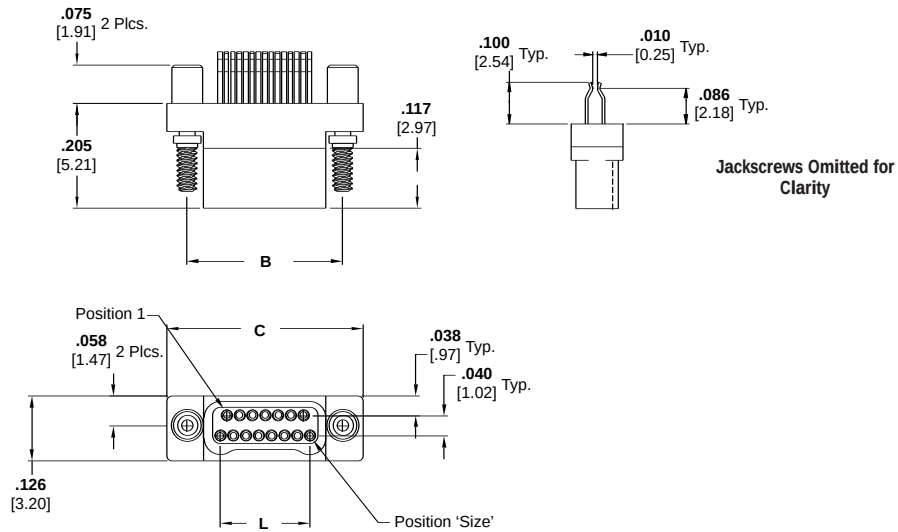
DUALOBE Connectors - Surface Mount and Thru Hole Terminations

| Class                            | S | X | X | XXX | XX(X) | X | X | Threads/Jackscrew                                                                                             |
|----------------------------------|---|---|---|-----|-------|---|---|---------------------------------------------------------------------------------------------------------------|
| S Duallobe                       |   |   |   |     |       |   |   |                                                                                                               |
| <b>Rows</b>                      |   |   |   |     |       |   |   |                                                                                                               |
| S 1 Row                          |   |   |   |     |       |   |   |                                                                                                               |
| T 2 Row                          |   |   |   |     |       |   |   |                                                                                                               |
| <b>Type</b>                      |   |   |   |     |       |   |   |                                                                                                               |
| L LCP (Plastic)                  |   |   |   |     |       |   |   |                                                                                                               |
| M Metal (Al, Ni Plate)           |   |   |   |     |       |   |   |                                                                                                               |
| <b>Positions</b>                 |   |   |   |     |       |   |   |                                                                                                               |
| 005 5 Position (single row only) |   |   |   |     |       |   |   |                                                                                                               |
| 009 9 Position                   |   |   |   |     |       |   |   |                                                                                                               |
| 015 15 Position                  |   |   |   |     |       |   |   |                                                                                                               |
| 025 25 Position                  |   |   |   |     |       |   |   |                                                                                                               |
| 037 37 Position                  |   |   |   |     |       |   |   |                                                                                                               |
| 051 51 Position                  |   |   |   |     |       |   |   |                                                                                                               |
| 065 65 Position (two row only)   |   |   |   |     |       |   |   |                                                                                                               |
|                                  |   |   |   |     |       |   |   | <b>Threads (Receptacles Only)</b>                                                                             |
|                                  |   |   |   |     |       |   |   | N Thread for 1.0 mm Jackscrews                                                                                |
|                                  |   |   |   |     |       |   |   | Q Thread for 1.2 mm Jackscrews                                                                                |
|                                  |   |   |   |     |       |   |   | <b>Jackscrews (Plugs Only)</b>                                                                                |
|                                  |   |   |   |     |       |   |   | M 1.0 mm Non Captive Jackscrews                                                                               |
|                                  |   |   |   |     |       |   |   | N 1.0 mm Captive Jackscrews                                                                                   |
|                                  |   |   |   |     |       |   |   | Q 1.2 mm Captive Jackscrews                                                                                   |
|                                  |   |   |   |     |       |   |   | <b>Mounting Hardware</b>                                                                                      |
|                                  |   |   |   |     |       |   |   | A 1.2 mm x .160"                                                                                              |
|                                  |   |   |   |     |       |   |   | C 1.0 mm x .200" w/ 2 standoffs                                                                               |
|                                  |   |   |   |     |       |   |   | D 1.2 mm x .160" w/ 2 standoffs                                                                               |
|                                  |   |   |   |     |       |   |   | H 1.0 mm x .160"                                                                                              |
|                                  |   |   |   |     |       |   |   | I 1.2 mm x .200"                                                                                              |
|                                  |   |   |   |     |       |   |   | K 1.0 mm x .200" w/ 4 standoffs                                                                               |
|                                  |   |   |   |     |       |   |   | L 1.2 mm x .200" w/ 2 standoffs                                                                               |
|                                  |   |   |   |     |       |   |   | P 1.2 mm x .200" w/ 4 standoffs                                                                               |
|                                  |   |   |   |     |       |   |   | S 1.0 mm x .160" w/ 2 standoffs                                                                               |
|                                  |   |   |   |     |       |   |   | <b>Configurations</b>                                                                                         |
|                                  |   |   |   |     |       |   |   | B2 Plug, Horizontal SMT                                                                                       |
|                                  |   |   |   |     |       |   |   | B4 Plug, Vertical SMT                                                                                         |
|                                  |   |   |   |     |       |   |   | B42 Plug, Vertical SMT, .020" Extended Leads                                                                  |
|                                  |   |   |   |     |       |   |   | B44 Plug, Vertical SMT, .040" Extended Leads                                                                  |
|                                  |   |   |   |     |       |   |   | B43 Plug, Vertical SMT, .020" Extended Leads, 2 side exit (single row only)                                   |
|                                  |   |   |   |     |       |   |   | B45 Plug, Vertical SMT, .040" Extended Leads, 2 side exit (single row only)                                   |
|                                  |   |   |   |     |       |   |   | L2 Receptacle, Horizontal SMT                                                                                 |
|                                  |   |   |   |     |       |   |   | L4 Receptacle, Vertical SMT                                                                                   |
|                                  |   |   |   |     |       |   |   | L42 Receptacle, Vertical SMT, .020" Extended Leads                                                            |
|                                  |   |   |   |     |       |   |   | L44 Receptacle, Vertical SMT, .040" Extended Leads                                                            |
|                                  |   |   |   |     |       |   |   | L43 Receptacle, Vertical SMT, .020" Extended Leads, 2 side exit (single row only)                             |
|                                  |   |   |   |     |       |   |   | L45 Receptacle, Vertical SMT, .040" Extended Leads, 2 side exit (single row only)                             |
|                                  |   |   |   |     |       |   |   | L8 Receptacle, Vertical SMT, w/ integrated standoffs (metal shell only)                                       |
|                                  |   |   |   |     |       |   |   | L82 Receptacle, Vertical SMT, w/ integrated standoffs, .020" Extended Leads (metal shell only)                |
|                                  |   |   |   |     |       |   |   | L84 Receptacle, Vertical SMT, w/ integrated standoffs, .040" Extended Leads (metal shell only)                |
|                                  |   |   |   |     |       |   |   | L83 Receptacle, Vertical SMT, w/ integrated standoffs, .020" Extended Leads (single row and metal shell only) |
|                                  |   |   |   |     |       |   |   | L85 Receptacle, Vertical SMT, w/ integrated standoffs, .040" Extended Leads (single row and metal shell only) |
|                                  |   |   |   |     |       |   |   | C5 Plug, Vertical Mount, Thru Hole                                                                            |
|                                  |   |   |   |     |       |   |   | C6 Plug, Horizontal Mount, Thru Hole                                                                          |
|                                  |   |   |   |     |       |   |   | M5 Receptacle, Vertical Mount, Thru Hole                                                                      |
|                                  |   |   |   |     |       |   |   | M6 Receptacle, Horizontal Mount, Thru Hole                                                                    |

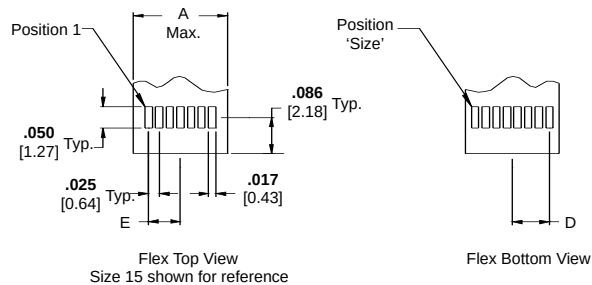
Flex Termination “Duckbill” Connectors — Two Row

Product Facts

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations



Plug Assembly  
Drawing Number 1589066



Typical Flex Pad Layout

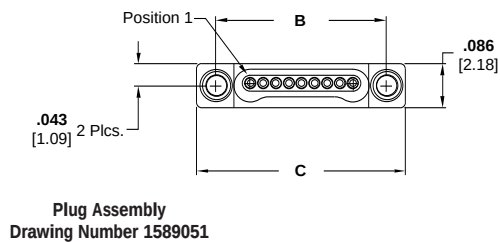
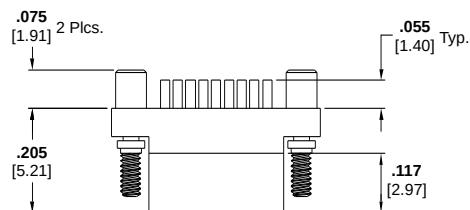
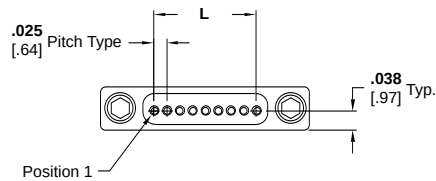
| Size | Dimensions   |               |                |               |               |               |
|------|--------------|---------------|----------------|---------------|---------------|---------------|
|      | A            | B             | C              | D             | E             | L             |
| 9    | 0.150 [3.81] | 0.229 [5.82]  | 0.3085 [7.84]  | 0.0500 [1.27] | 0.0375 [0.95] | 0.100 [2.54]  |
| 15   | 0.225 [5.72] | 0.304 [7.72]  | 0.3835 [9.74]  | 0.0875 [2.22] | 0.0750 [1.90] | 0.175 [4.45]  |
| 25   | 0.350 [8.89] | 0.429 [10.90] | 0.5085 [12.92] | 0.1500 [3.81] | 0.1375 [3.49] | 0.300 [7.62]  |
| 37   | 0.500 [12.7] | 0.579 [14.71] | 0.6585 [16.73] | 0.2250 [5.72] | 0.2125 [5.40] | 0.450 [11.43] |
| 51   | 0.675 [17.1] | 0.754 [19.15] | 0.8335 [21.17] | 0.3125 [7.94] | 0.3000 [7.62] | 0.625 [15.88] |
| 65   | 0.850 [21.6] | 0.929 [23.60] | 1.0085 [25.62] | 0.4000 [10.2] | 0.3875 [9.84] | 0.800 [20.32] |



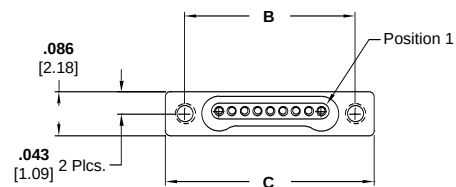
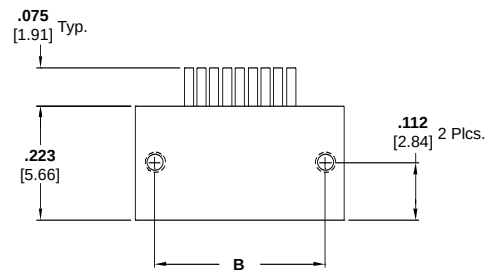
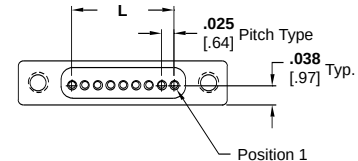
**Solder Cup Connectors — Single Row**

**Product Facts**

- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37 and 51
- Contact Tyco Electronics for custom configurations



**Plug Assembly**  
Drawing Number 1589051



**Receptacle Assembly**  
Drawing Number 1589052

| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 5    | 0.233 [5.92]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 9    | 0.333 [8.46]  | 0.4085 [10.38] | 0.200 [5.08]  |
| 15   | 0.483 [12.27] | 0.5585 [14.19] | 0.350 [8.89]  |
| 25   | 0.733 [18.62] | 0.8085 [20.54] | 0.600 [15.24] |
| 37   | 1.033 [26.24] | 1.1085 [28.16] | 0.900 [22.86] |
| 51   | 1.383 [35.13] | 1.4585 [37.05] | 1.250 [31.75] |



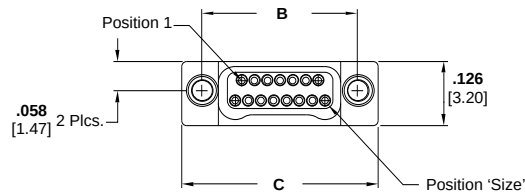
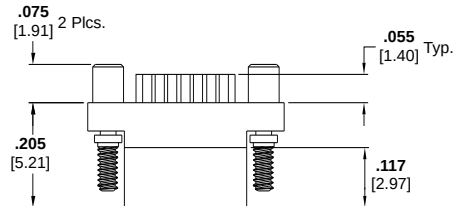
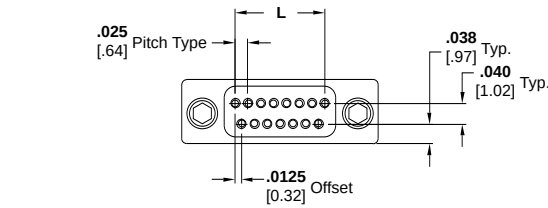
Plug



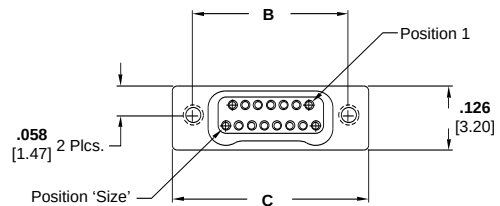
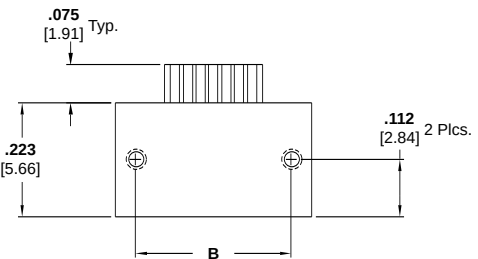
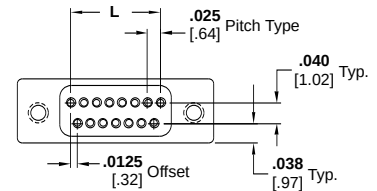
Receptacle

### Product Facts

- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations



Plug Assembly  
Drawing Number 1589053



Receptacle Assembly  
Drawing Number 1589054

| Size | Dimensions    |                |               |
|------|---------------|----------------|---------------|
|      | B             | C              | L             |
| 9    | 0.229 [5.82]  | 0.3085 [7.84]  | 0.100 [2.54]  |
| 15   | 0.304 [7.72]  | 0.3835 [9.74]  | 0.175 [4.45]  |
| 25   | 0.429 [10.90] | 0.5085 [12.92] | 0.300 [7.62]  |
| 37   | 0.579 [14.71] | 0.6585 [16.73] | 0.450 [11.43] |
| 51   | 0.754 [19.15] | 0.8335 [21.17] | 0.625 [15.88] |
| 65   | 0.929 [23.60] | 1.0085 [25.62] | 0.800 [20.32] |

**Part Numbering Guideline for Solder Cup Connectors**

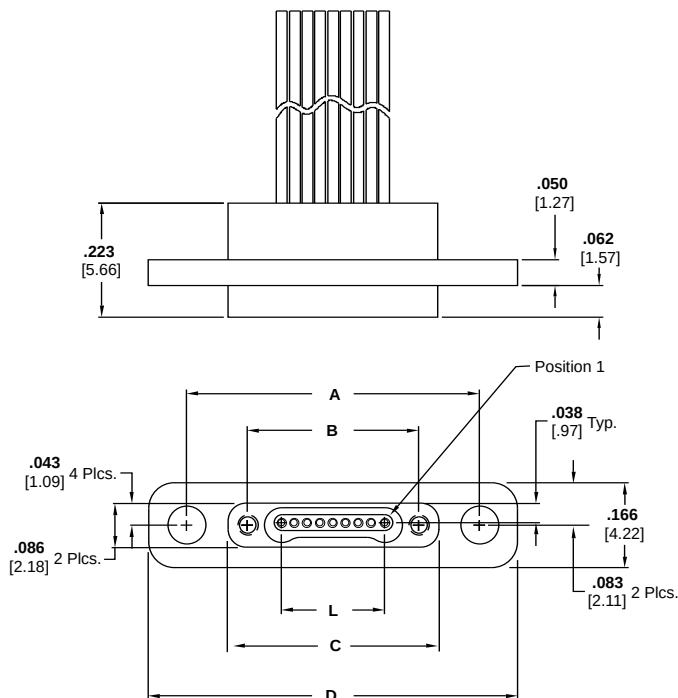
**DUALOBE Connectors - Solder Cup Termination**

|                                  |   |   |   |     |       |    |   |                                   |
|----------------------------------|---|---|---|-----|-------|----|---|-----------------------------------|
| <b>Class</b>                     | S | X | X | XXX | 11500 | XX | X | <b>Threads/Jackscrew</b>          |
| S Duallobe                       |   |   |   |     |       |    |   |                                   |
| <b>Rows</b>                      |   |   |   |     |       |    |   | <b>Threads (Receptacles Only)</b> |
| S 1 Row                          |   |   |   |     |       |    |   | N Thread for 1.0 mm Jackscrews    |
| T 2 Row                          |   |   |   |     |       |    |   | Q Thread for 1.2 mm Jackscrews    |
| <b>Type</b>                      |   |   |   |     |       |    |   | <b>Jackscrews (Plugs Only)</b>    |
| L LCP (Plastic)                  |   |   |   |     |       |    |   | M 1.0 mm Non Captive Jackscrews   |
| M Metal (Al, Ni Plate)           |   |   |   |     |       |    |   | N 1.0 mm Captive Jackscrews       |
|                                  |   |   |   |     |       |    |   | Q 1.2 mm Captive Jackscrews       |
| <b>Positions</b>                 |   |   |   |     |       |    |   | <b>Configuration</b>              |
| 005 5 Position (single row only) |   |   |   |     |       |    |   | PC Plug                           |
| 009 9 Position                   |   |   |   |     |       |    |   | SC Receptacle                     |
| 015 15 Position                  |   |   |   |     |       |    |   |                                   |
| 025 25 Position                  |   |   |   |     |       |    |   |                                   |
| 037 37 Position                  |   |   |   |     |       |    |   |                                   |
| 051 51 Position                  |   |   |   |     |       |    |   |                                   |
| 065 65 Position (two row only)   |   |   |   |     |       |    |   |                                   |
|                                  |   |   |   |     |       |    |   | <b>Termination Code</b>           |
|                                  |   |   |   |     |       |    |   | 11500 Solder Cup Termination      |

Panel Mount Connectors — Single Row, Flying Leads

Product Facts

- Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37 and 51
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations



Receptacle Assembly  
Drawing Number 1589851

| Size | Dimensions    |               |               |               |               |
|------|---------------|---------------|---------------|---------------|---------------|
|      | A             | B             | C             | D             | L             |
| 5    | 0.470 [11.94] | 0.233 [5.92]  | 0.310 [7.87]  | 0.620 [15.75] | 0.100 [2.54]  |
| 9    | 0.570 [14.48] | 0.333 [8.46]  | 0.410 [10.41] | 0.720 [18.29] | 0.200 [5.08]  |
| 15   | 0.720 [18.29] | 0.483 [12.27] | 0.560 [14.22] | 0.870 [22.10] | 0.350 [8.89]  |
| 25   | 0.970 [24.64] | 0.733 [18.62] | 0.810 [20.57] | 1.120 [28.45] | 0.600 [15.24] |
| 37   | 1.270 [32.26] | 1.033 [26.24] | 1.110 [28.19] | 1.420 [36.07] | 0.900 [22.86] |
| 51   | 1.620 [41.15] | 1.383 [35.13] | 1.460 [37.08] | 1.770 [44.96] | 1.250 [31.75] |



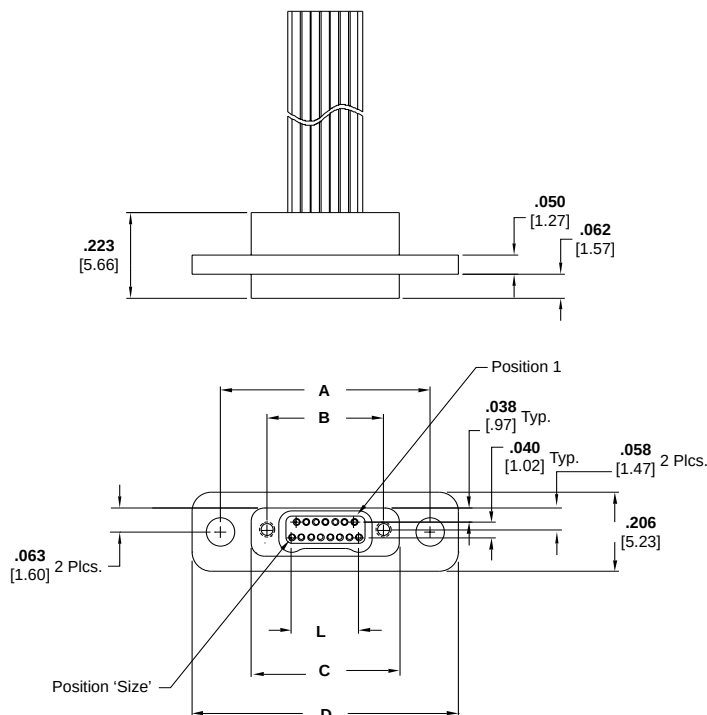
Panel Mount Connectors — Two Row, Flying Leads



Receptacle

Product Facts

- Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations

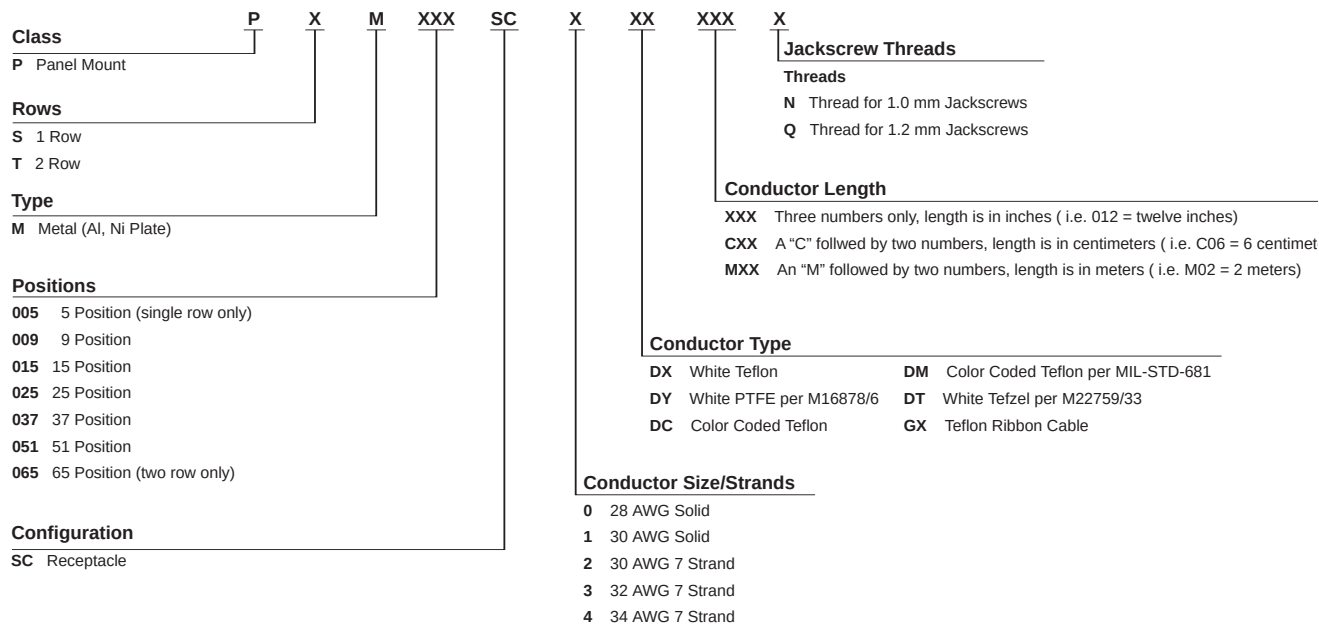


Receptacle Assembly  
Drawing Number 1589050

| Size | Dimensions    |               |               |               |               |
|------|---------------|---------------|---------------|---------------|---------------|
|      | A             | B             | C             | D             | L             |
| 9    | 0.470 [11.94] | 0.229 [5.82]  | 0.310 [7.87]  | 0.620 [15.75] | 0.100 [2.54]  |
| 15   | 0.545 [13.84] | 0.304 [7.72]  | 0.385 [9.78]  | 0.695 [17.65] | 0.175 [4.45]  |
| 25   | 0.670 [17.02] | 0.429 [10.90] | 0.510 [12.95] | 0.820 [20.83] | 0.300 [7.62]  |
| 37   | 0.820 [20.83] | 0.579 [14.71] | 0.660 [16.76] | 0.970 [24.64] | 0.450 [11.43] |
| 51   | 0.995 [25.27] | 0.754 [19.15] | 0.835 [21.21] | 1.145 [29.08] | 0.625 [15.88] |
| 65   | 1.170 [29.72] | 0.929 [23.60] | 1.010 [25.65] | 1.320 [33.53] | 0.800 [20.32] |

Part Numbering Guideline for Panel Mount Connectors

DUALOBE Connectors - Panel Mount



### Part Number Index Cross Reference

| Nanonics<br>Part Number | Tyco<br>Part Number | Nanonics<br>Part Number | Tyco<br>Part Number | Nanonics<br>Part Number | Tyco<br>Part Number | Nanonics<br>Part Number | Tyco<br>Part Number |
|-------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|
| <b>Wired Connectors</b> |                     | SSL015SC2DC005N         | 9-1589457-6         | SSM009PC0DC012N         | 0-1589827-7         | SSM015PC2DC003N         | 8-1589455-6         |
| SSL005PC0DC006N         | 0-1589455-2         | SSL015SC2DC006N         | 1-1589457-2         | SSM009PC0DC024N         | 5-1589455-3         | SSM015PC2DC006          | 8-1589455-7         |
| SSL005PC0DC012N         | 0-1589455-3         | SSL015SC2DC012N         | 1-1589457-3         | SSM009PC0DM024N         | 5-1589455-4         | SSM015PC2DC006N         | 8-1589455-8         |
| SSL005PC0DX012M         | 7-1589456-3         | SSL015SC2DC024N         | 1-1589457-4         | SSM009PC0DX012N         | 5-1589455-5         | SSM015PC2DC008N         | 8-1589455-9         |
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| STM051SC2DC012N         | 5-1589477-0         | STM065PC2DY012Q         | 2-1589788-7         | JSL037PD2GX0C02N         | 7-1589671-5         | JSM037PD2GX0C02N        | 0-1589797-2         |
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| JTM009PP2DT004N      | 3-1589673-5      | JTM025PR2DX001N      | 2-1589738-7      | JTM051PR2DC006Q      | 2-1589738-4      | SSM005L85HN          | 0-1589468-1      |
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| STM037L84N              | 1-1589486-9         | STM065L4KN              | 7-1589484-5         | SSM025M6HN              | 2-1589469-8         | STM009M5HN              | 1-1589488-8         |
| STM037L84PQ             | 3-1589486-6         | STM065L82AQ             | 0-1589486-6         | SSM025M6SN              | 3-1589469-0         | STM009M5LQ              | 1-1589488-9         |
| STM037L84SN             | 3-1589486-8         | STM065L82HN             | 0-1589486-7         | SSM037C5Q               | 0-1589461-4         | STM009M5PQ              | 5-1589488-9         |
| STM037L8HN              | 4-1589486-0         | STM065L82IQ             | 1-1589486-4         | SSM037C6N               | 0-1589471-3         | STM009M5Q               | 2-1589488-0         |
| STM051B2H               | 0-1589480-2         | STM065L82LQ             | 2-1589486-3         | SSM037M6HN              | 3-1589469-2         | STM009M6AN              | 1-1589487-9         |
| STM051B2N               | 0-1589490-6         | STM065L84HN             | 2-1589486-6         | SSM037M6HQ              | 4-1589469-2         | STM009M6AQ              | 5-1589487-6         |
| STM051B2Q               | 0-1589490-8         | STM065L84IQ             | 0-1589486-8         | SSM037M6SN              | 3-1589469-3         | STM009M6CN              | 6-1589487-9         |
| STM051B42N              | 1-1589485-0         | STM065L84N              | 3-1589486-1         | SSM051C5N               | 0-1589461-3         | STM009M6DQ              | 2-1589487-0         |
| STM051B4N               | 2-1589485-2         | STM065L8HN              | 1-1589486-8         | SSM051M5CN              | 1-1589470-3         | STM009M6HN              | 2-1589487-1         |
| STM051H5                | 0-1589813-4         |                         |                     | SSM051M6N               | 4-1589469-4         | STM009M6IQ              | 5-1589487-7         |
| STM051L23N              | 5-1589483-9         | <b>Through-Hole</b>     |                     | SSM051M6SN              | 3-1589469-4         | STM009M6SN              | 2-1589487-2         |
| STM051L2AQ              | 6-1589483-0         | SSL005M6SN              | 0-1589469-6         | STL009M5CN              | 4-1589488-8         | STM015C5N               | 0-1589482-7         |
| STM051L2CN              | 6-1589483-2         | SSL009M5CN              | 1-1589470-5         | STL009M5KN              | 6-1589488-5         | STM015C6N               | 0-1589481-3         |
| STM051L2HN              | 6-1589483-3         | SSL009M6A               | 3-1589469-5         | STL009M5L               | 0-1589488-7         | STM015M5AN              | 2-1589488-1         |
| STM051L2HQ              | 6-1589483-4         | SSL009M6CN              | 3-1589469-9         | STL009M6CN              | 6-1589487-1         | STM015M5AQ              | 7-1589488-1         |
| STM051L2IQ              | 7-1589483-9         | SSL009M6D               | 0-1589469-7         | STL009M6HN              | 7-1589487-8         | STM015M5CN              | 2-1589488-2         |
| STM051L2JN              | 6-1589483-5         | SSL009M6H               | 0-1589469-8         | STL015C5N               | 0-1589482-6         | STM015M5HN              | 2-1589488-3         |
| STM051L2Q               | 6-1589483-6         | SSL009M6SN              | 0-1589469-9         | STL015M5CN              | 0-1589488-8         | STM015M5KN              | 2-1589488-4         |
| STM051L2SN              | 6-1589483-8         | SSL015M5KN              | 0-1589470-2         | STL015M5KN              | 6-1589488-6         | STM015M5LN              | 2-1589488-5         |
| STM051L2TQ              | 9-1589483-6         | SSL015M6A               | 3-1589469-6         | STL015M5SN              | 5-1589488-1         | STM015M5LQ              | 2-1589488-6         |
| STM051L42HN             | 6-1589484-3         | SSL015M6CN              | 3-1589469-8         | STL015M6CN              | 0-1589487-6         | STM015M5PQ              | 2-1589488-7         |
| STM051L42KN             | 6-1589484-4         | SSL015M6D               | 1-1589469-0         | STL015M6HN              | 6-1589487-4         | STM015M5SN              | 6-1589488-7         |
| STM051L42N              | 6-1589484-5         | SSL015M6N               | 1-1589469-1         | STL015M6KN              | 7-1589487-5         | STM015M6AN              | 2-1589487-3         |
| STM051L44HN             | 6-1589484-6         | SSL015M6SN              | 4-1589469-5         | STL015M6SN              | 0-1589487-7         | STM015M6CN              | 6-1589487-8         |
| STM051L44KN             | 6-1589484-7         | SSL025M5CN              | 0-1589470-3         | STL025C5N               | 0-1589482-1         | STM015M6DQ              | 2-1589487-4         |
| STM051L44PQ             | 6-1589484-8         | SSL025M6A               | 3-1589469-7         | STL025C6N               | 0-1589481-1         | STM015M6HN              | 2-1589487-5         |
| STM051L44Q              | 6-1589484-9         | SSL025M6CN              | 4-1589469-0         | STL025M5                | 1-1589488-0         | STM015M6IQ              | 5-1589487-8         |
| STM051L4CN              | 7-1589484-8         | SSL025M6D               | 1-1589469-2         | STL025M5CN              | 1-1589488-1         | STM015M6N               | 2-1589487-6         |
| STM051L4HN              | 9-1589484-1         | SSL025M6DQ              | 1-1589469-3         | STL025M5KN              | 5-1589488-2         | STM015M6S               | 2-1589487-7         |
| STM051L4KN              | 7-1589484-0         | SSL025M6H               | 1-1589469-4         | STL025M6                | 0-1589487-9         | STM015M6SN              | 2-1589487-8         |
| STM051L4PQ              | 7-1589484-1         | SSL025M6HN              | 1-1589469-5         | STL025M6D               | 6-1589487-3         | STM015M9AN              | 0-1589489-1         |
| STM051L4SN              | 9-1589484-5         | SSL025M6SQ              | 1-1589469-6         | STL025M6DQ              | 1-1589487-0         | STM015M9HN              | 0-1589489-3         |
| STM051L82AQ             | 3-1589486-9         | SSL037M5N               | 0-1589470-4         | STL025M6HN              | 6-1589487-5         | STM025C5N               | 0-1589482-2         |
| STM051L82HN             | 2-1589486-0         | SSL037M6SN              | 4-1589469-1         | STL025M6KN              | 7-1589487-6         | STM025C5Q               | 1-1589482-1         |
| STM051L82IQ             | 1-1589486-5         | SSM005M6SN              | 1-1589469-7         | STL025M6N               | 1-1589487-1         | STM025C6N               | 0-1589481-4         |
| STM051L82LQ             | 2-1589486-2         | SSM009C5Q               | 0-1589461-1         | STL025M6SN              | 1-1589487-2         | STM025M5AQ              | 6-1589488-4         |
| STM051L84HN             | 2-1589486-8         | SSM009C6Q               | 0-1589471-1         | STL037M5CN              | 4-1589488-9         | STM025M5CN              | 2-1589488-8         |
| STM051L8HN              | 1-1589486-0         | SSM009M5CN              | 0-1589470-5         | STL037M5LQ              | 1-1589488-3         | STM025M5HN              | 2-1589488-9         |
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| STM025M6CN           | 3-1589487-0      |
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| STM025M6HN           | 3-1589487-2      |
| STM025M6IQ           | 5-1589487-9      |
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| STM025M6Q            | 3-1589487-4      |
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| STM037C5             | 0-1589482-9      |
| STM037C5N            | 1-1589482-6      |
| STM037C5Q            | 1-1589482-2      |
| STM037C6N            | 0-1589481-5      |
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| STM037M5AN           | 3-1589488-3      |
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| STM037M6AN           | 3-1589487-6      |
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| STM037M6CN           | 7-1589487-9      |
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| STM037M6IQ           | 6-1589487-0      |
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| STM051C5N            | 0-1589482-3      |
| STM051C5Q            | 0-1589482-4      |
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| STM051M5AQ           | 3-1589488-9      |
| STM051M5CN           | 4-1589488-0      |
| STM051M5DQ           | 4-1589488-1      |
| STM051M5LQ           | 4-1589488-2      |
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| STM051M5SN           | 6-1589488-8      |
| STM051M6CN           | 4-1589487-3      |
| STM051M6DQ           | 4-1589487-4      |
| STM051M6HN           | 4-1589487-5      |
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| STM065M5IQ           | 7-1589488-2      |
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#### Flex Term "Duckbill"

| Nanonics Part Number | Tyco Part Number |
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| STL00911378PC        | 0-1589066-3      |
| STL00911378PCN       | 0-1589066-4      |
| STL00911378SCN       | 0-1589067-1      |
| STL01511378PCN       | 0-1589066-5      |
| STL02511378PCN       | 0-1589066-6      |
| STL02511378SCN       | 0-1589067-2      |
| STL03711378PC        | 2-1589066-4      |
| STL03711378PCN       | 0-1589066-7      |
| STL05111378PCN       | 0-1589066-8      |
| STL05111378SCHN      | 0-1589067-3      |
| STL06511378PC        | 0-1589066-9      |
| STL06511378PCN       | 1-1589066-0      |
| STL06511378SCN       | 0-1589067-4      |
| STM00911378PCN       | 1-1589066-1      |
| STM00911378SCN       | 0-1589067-6      |
| STM01511378PCN       | 2-1589066-3      |
| STM01511378SCN       | 0-1589067-7      |
| STM02511378PC        | 1-1589066-2      |
| STM02511378PCN       | 1-1589066-3      |
| STM02511378SCN       | 0-1589067-8      |
| STM03711378PCN       | 1-1589066-4      |
| STM03711378PCQ       | 1-1589066-5      |
| STM03711378SCN       | 1-1589067-2      |
| STM05111378PC        | 1-1589066-6      |
| STM05111378PCM       | 1-1589066-7      |
| STM05111378PCN       | 1-1589066-8      |
| STM05111378PCQ       | 1-1589066-9      |
| STM05111378SCN       | 0-1589067-9      |
| STM06511378PC        | 2-1589066-2      |
| STM06511378PCN       | 2-1589066-0      |
| STM06511378PCQ       | 2-1589066-1      |
| STM06511378SCN       | 1-1589067-0      |

#### Solder Cup Termination

| Nanonics Part Number | Tyco Part Number |
|----------------------|------------------|
| SSL00511500PCN       | 0-1589051-1      |
| SSL00511500SCN       | 0-1589052-1      |
| SSL00911500PC        | 0-1589051-2      |
| SSL00911500PCN       | 0-1589051-3      |
| SSL00911500SCN       | 0-1589052-2      |
| SSL01511500PCM       | 0-1589051-4      |
| SSL01511500PCN       | 0-1589051-5      |
| SSL01511500SCN       | 0-1589052-3      |
| SSM00511500PC        | 1-1589051-4      |
| SSM00511500PCN       | 0-1589051-6      |
| SSM00511500PCN       | 0-1589051-7      |
| SSM00511500SCN       | 0-1589052-4      |
| SSM00911500PC        | 0-1589051-8      |
| SSM00911500PCN       | 0-1589051-9      |
| SSM00911500SCN       | 1-1589052-1      |
| SSM01511500PCN       | 1-1589051-0      |
| SSM01511500SC        | 0-1589052-5      |
| SSM01511500SCN       | 1-1589052-0      |
| SSM02511500SCQ       | 0-1589052-7      |
| SSM03711500PC        | 1-1589051-1      |
| SSM03711500PCN       | 1-1589051-2      |
| SSM05111500PCN       | 1-1589051-3      |
| SSM05111500SCN       | 0-1589052-8      |
| STL00911500PC        | 2-1589053-2      |
| STL00911500PCN       | 0-1589053-1      |
| STL00911500SCN       | 0-1589054-1      |
| STL01511500PC        | 2-1589053-1      |
| STL01511500PCN       | 0-1589053-2      |
| STL01511500SCN       | 0-1589054-2      |
| STL02511500PC        | 0-1589053-3      |
| STL02511500PCN       | 0-1589053-4      |
| STL02511500SC        | 0-1589054-3      |
| STL03711500PCN       | 0-1589053-5      |
| STL03711500SCN       | 0-1589054-4      |
| STL05111500PCN       | 0-1589053-6      |
| STL06511500PCN       | 1-1589053-8      |
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| STM00911500SCN       | 0-1589054-5      |
| STM01511500PCN       | 0-1589053-8      |
| STM01511500PCQ       | 0-1589053-9      |
| STM01511500SCHN      | 0-1589054-6      |
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| STM01511500SCQ       | 1-1589054-4      |
| STM02511500PC        | 1-1589053-0      |
| STM02511500PCN       | 1-1589053-1      |
| STM02511500PCQ       | 2-1589053-3      |
| STM02511500SC        | 0-1589054-8      |
| STM02511500SCN       | 0-1589054-9      |
| STM03711500PCN       | 1-1589053-2      |
| STM03711500PCQ       | 1-1589053-3      |
| STM03711500SCN       | 1-1589054-0      |
| STM05111500PCN       | 1-1589053-4      |
| STM05111500PCQ       | 1-1589053-5      |
| STM05111500SCN       | 1-1589054-1      |
| STM05111500SCQ       | 1-1589054-5      |
| STM06511500PC        | 1-1589053-6      |

| Nanonics Part Number | Tyco Part Number |
|----------------------|------------------|
| STM06511500PCN       | 1-1589053-7      |
| STM06511500SCN       | 1-1589054-2      |
| STM06511500SCQ       | 1-1589054-6      |

#### Panel Mount

| Nanonics Part Number | Tyco Part Number |
|----------------------|------------------|
| PSM005SC2DC024N      | 0-1589851-2      |
| PSM009SC2DC060N      | 0-1589851-1      |
| PTM009SC2DC060N      | 0-1589050-7      |
| PTM015SC2DC024N      | 0-1589050-4      |
| PTM015SC2DC060N      | 0-1589050-5      |
| PTM025SC2DC060N      | 0-1589050-6      |
| PTM037SC2DC018N      | 0-1589050-3      |
| PTM065SC2DC018N      | 0-1589050-2      |

**Environmentally Sealed Circular Connectors**



Nanonics environmentally sealed circular offering represents one of the industry's smallest and most reliable connector designs. These connectors are ideally suited for applications where high density and reliability, and reduced size and weight are serious design parameters. Along with these attributes, they also meet the immersion requirements of IP67, more specifically, one meter of water for two hours. Utilizing the same contact

system and materials as the Dualobe® rectangular series of connectors, the circular connectors are manufactured to the performance specifications of MIL-DTL-83513.

The plug connectors are offered in both a quick disconnect or threaded coupling configuration, and the receptacle connectors are offered in either a flush mount or panel mount configuration. The quick disconnect plug will mate with both the flush and panel

mount receptacles, while the threaded coupling plug will only mate with the panel mount receptacle. These connectors are available in pin counts of 7, 19, and 44. Optional backshells are also available for the plug connectors and the panel mount receptacle. Ideal for cable-to-cable or cable-to-panel applications, Tyco Electronics can also accommodate harness assemblies and custom configurations.

**Specifications**

**Technical and Performance Data**

**Electrical**

**Contact Resistance** – .003 - .008 ohms

**Current Rating** – 1 amp max. per contact

**Dielectric Withstanding Voltage** – Volts RMS 60 Hz at room ambient conditions. At sea level 500V. At 70,000 ft. 150V.

**Insulation Resistance** – 5000 megohms min. (@ 500 VDC) at room ambient conditions.

**Magnetic Permeability** – 2 mu max.

**Temperature Range** — -55°C to +200°C

**Durability** – 250 mates/demates

**Jam Nut Torque—**

7 Pos. - 6 in-lbs. max.

19 Pos. - 8 in-lbs. max.

44 Pos. - 10 in-lbs. max.

**Coupling Nut Torque –**

7 Pos. - 6 in-lbs. max.

19 Pos. - 8 in-lbs. max.

44 Pos. - 10 in-lbs. max.

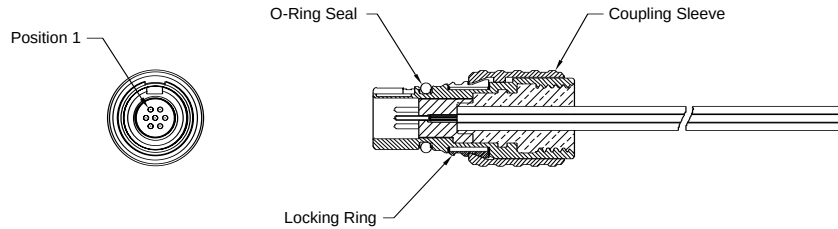
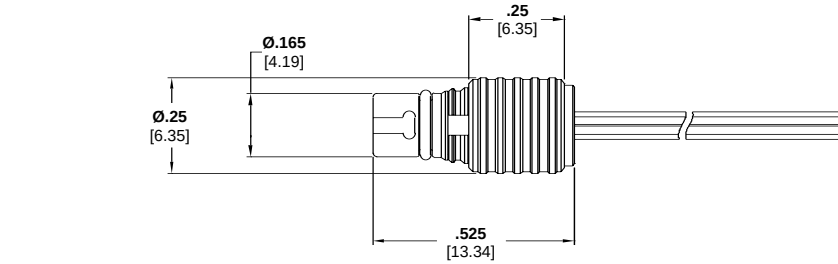
**Quick Disconnect — Plug Assemblies**



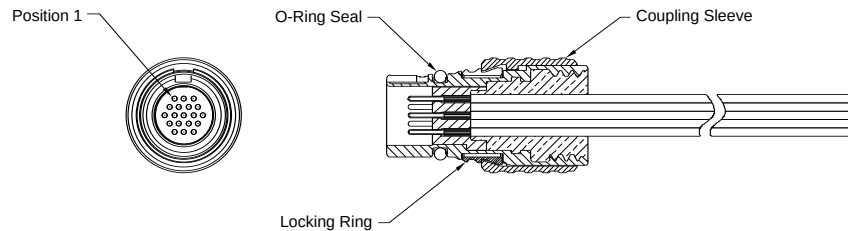
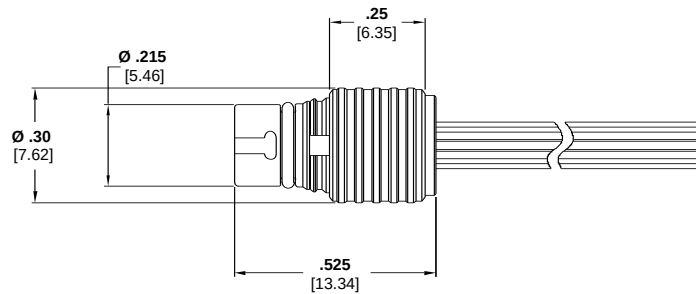
19 Position

**Product Facts**

- Metal Shell
- Positions: 7, 19 and 44
- Environmental O-ring seal
- Push-Pull quick-disconnect coupling
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations

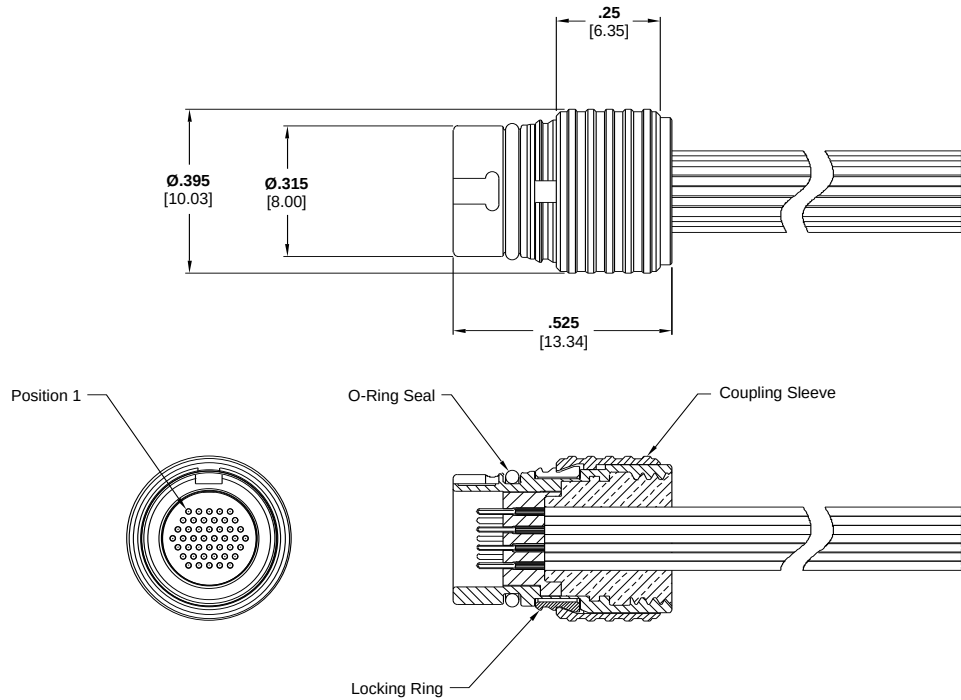


7 Position  
Drawing Number 1589055



19 Position  
Drawing Number 1589057

**Quick Disconnect — Plug Assemblies (Continued)**



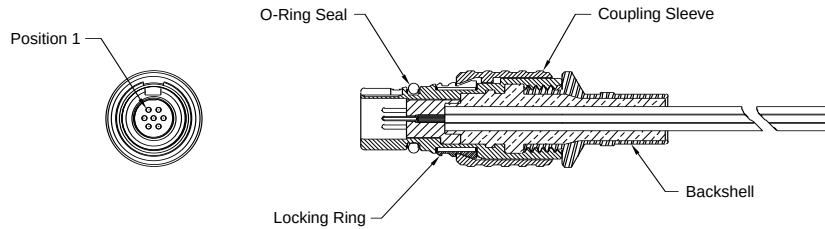
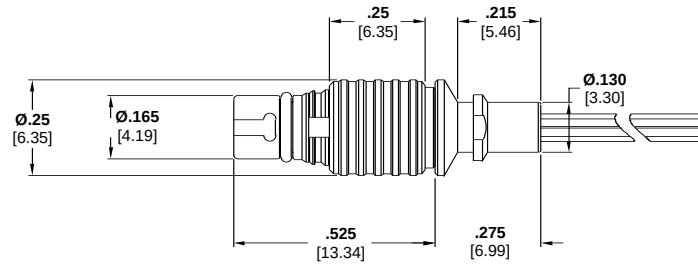
**44 Position**  
**Drawing Number 1589059**



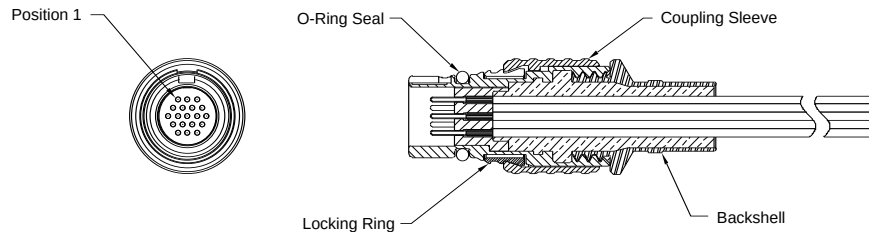
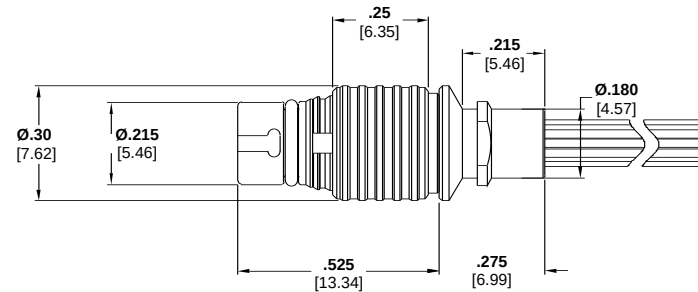
**Quick Disconnect — Plug Assemblies with Backshells**

**Product Facts**

- Metal Shell
- Positions: 7, 19 and 44
- Environmental O-ring seal
- Factory wired to your specifications
- Backshell installed at factory
- Contact Tyco Electronics for custom configurations

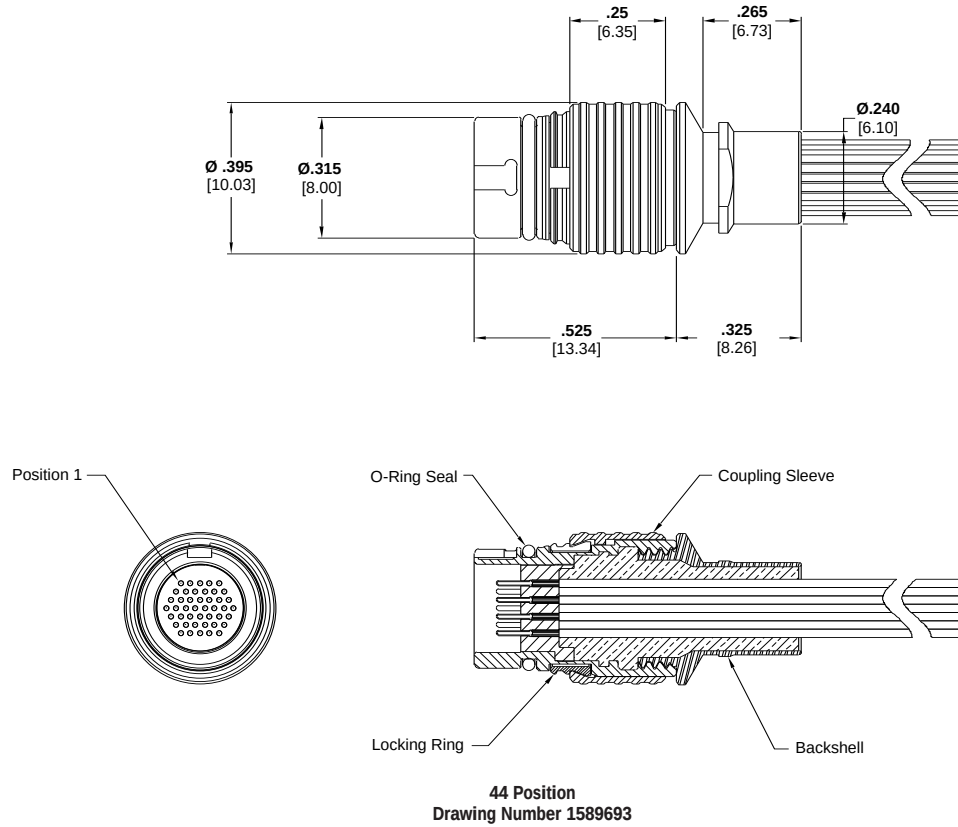


**7 Position**  
**Drawing Number 1589691**



**19 Position**  
**Drawing Number 1589692**

**Quick Disconnect — Plug Assemblies with Backshells (Continued)**





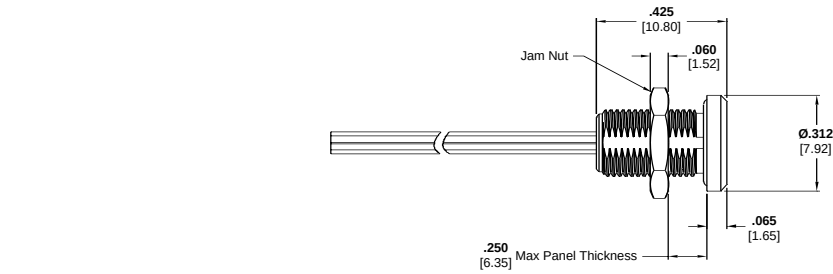
**Quick Disconnect — Receptacle Assemblies, Flush Mount**



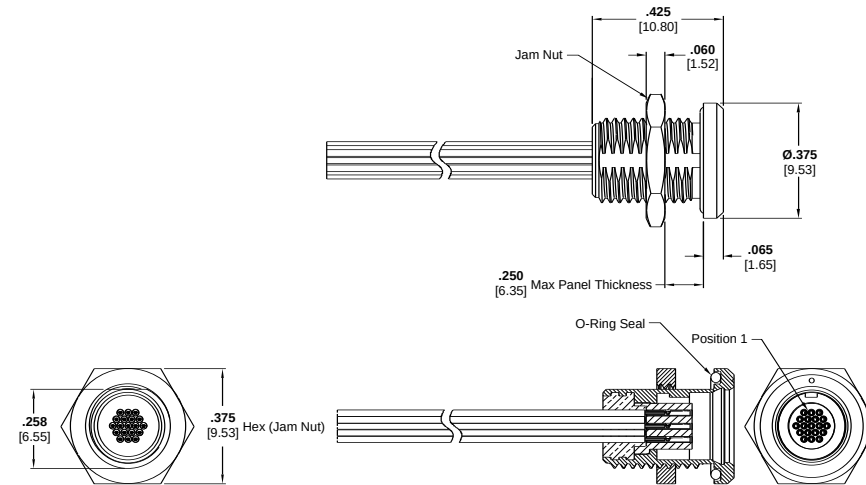
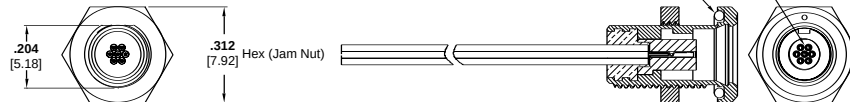
19 Position

**Product Facts**

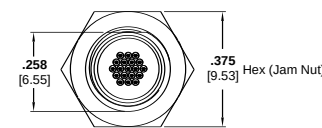
- Metal Shell
- Positions: 7, 19 and 44
- Bulkhead O-ring seal
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations



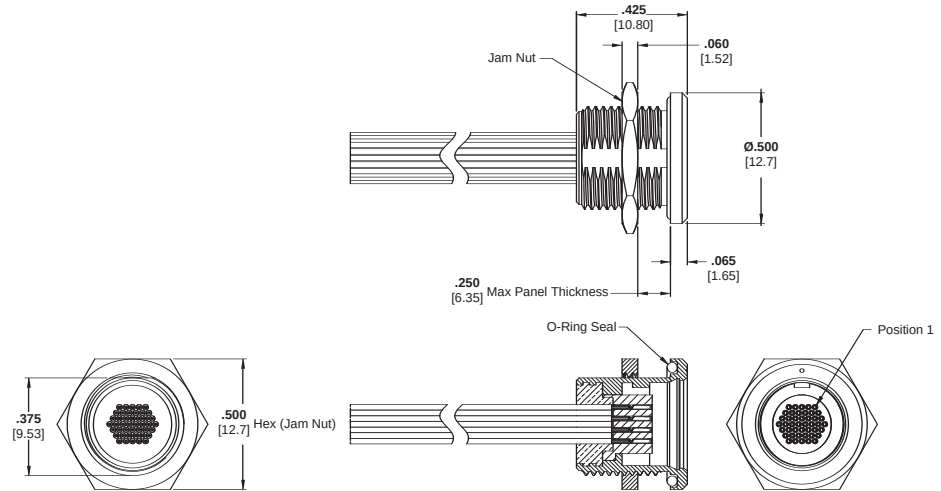
7 Position  
Drawing Number 1589056



19 Position  
Drawing Number 1589058



**Quick Disconnect — Receptacle Assemblies, Flush Mount (Continued)**



**44 Position**  
**Drawing Number 1589690**

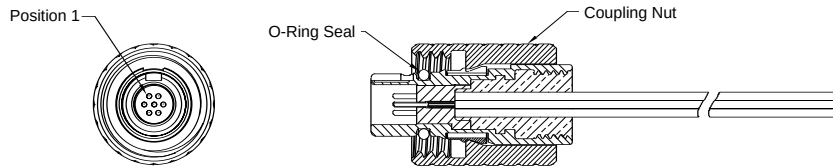
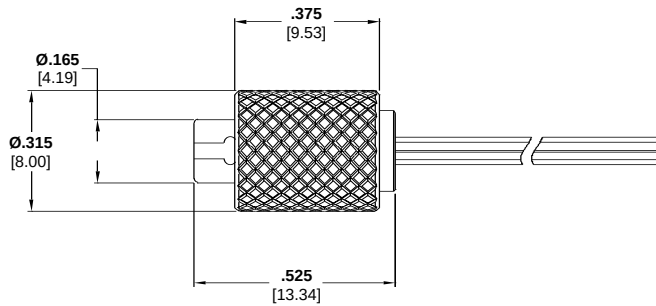
**Threaded Coupling — Plug Assemblies**



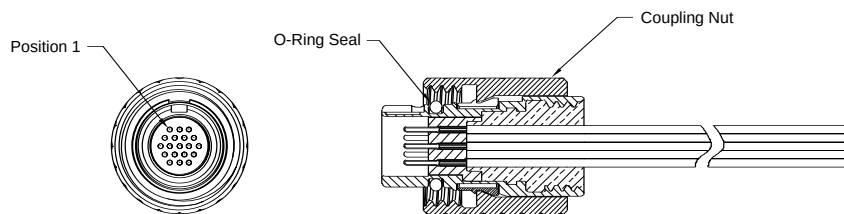
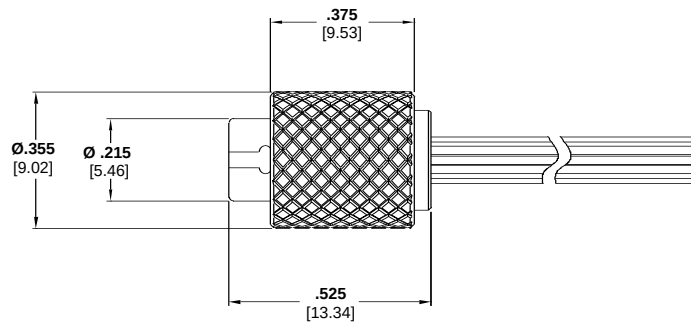
19 Position

**Product Facts**

- Metal Shell
- Positions: 7, 19 and 44
- Environmental O-ring seal
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations

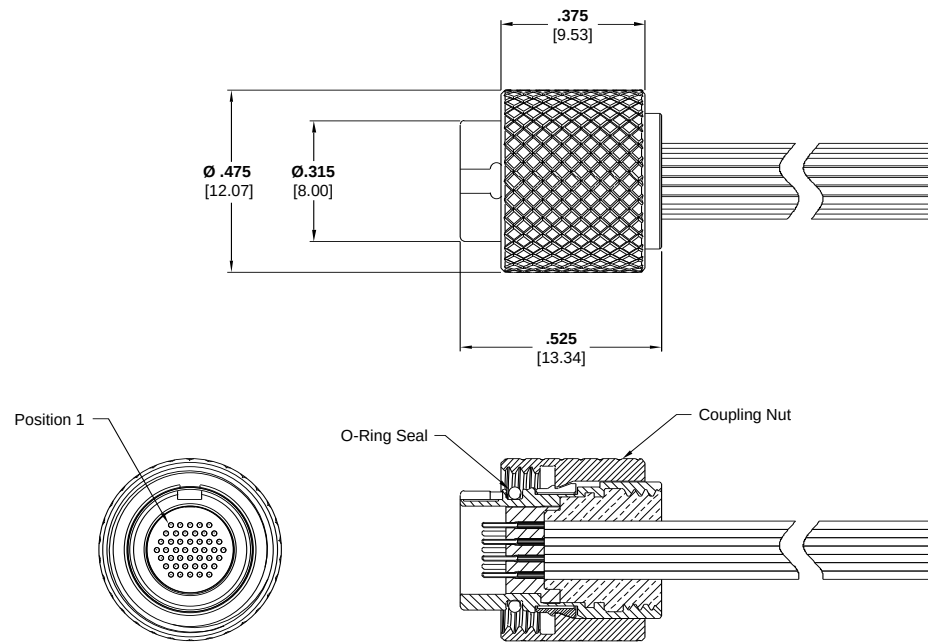


7 Position  
Drawing Number 1589063



19 Position  
Drawing Number 1589064

**Threaded Coupling — Plug Assemblies (Continued)**

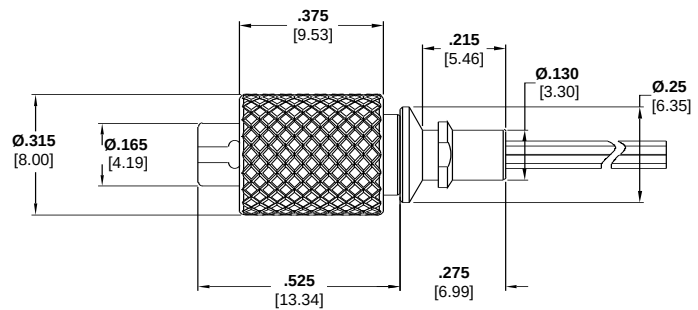


**44 Position**  
**Drawing Number 1589065**

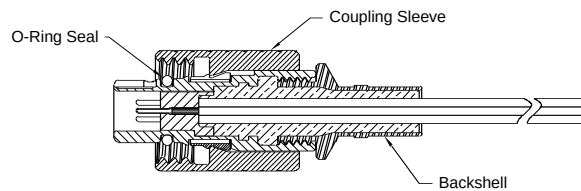
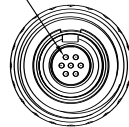
**Threaded Coupling — Plug Assemblies with Backshells**

**Product Facts**

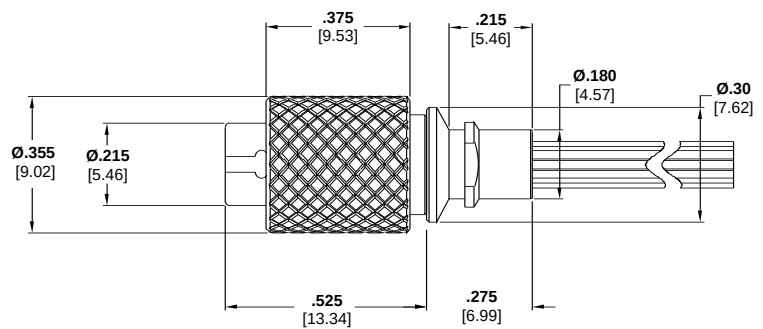
- Metal Shell
- Positions: 7, 19 and 44
- Environmental O-ring seal
- Factory wired to your specifications
- Backshell installed at factory
- Contact Tyco Electronics for custom configurations



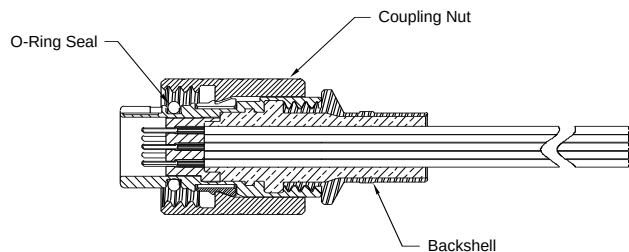
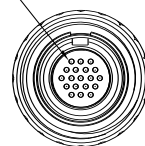
Position 1



**7 Position**  
**Drawing Number 1589686**

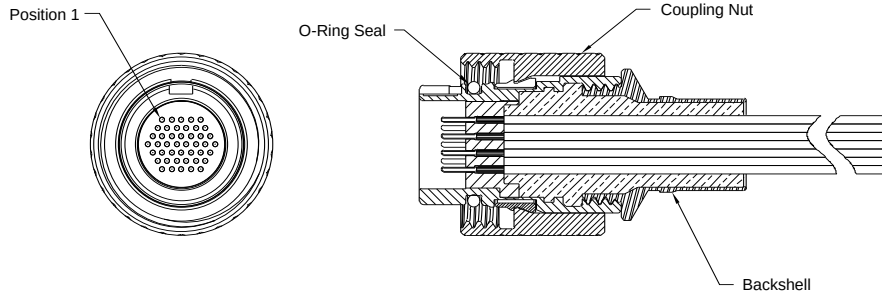
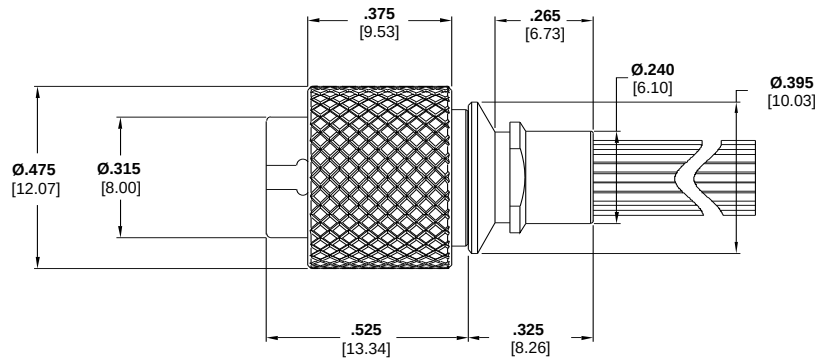


Position 1



**19 Position**  
**Drawing Number 1589688**

**Threaded Coupling — Plug Assemblies with Backshells (Continued)**

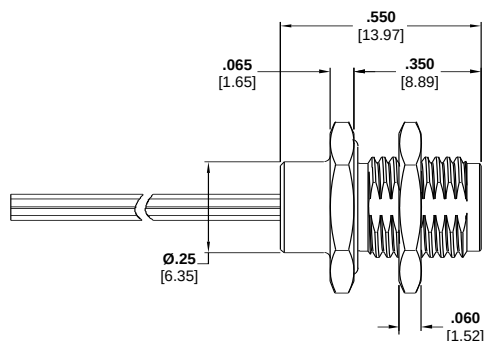


**44 Position  
Drawing Number 1589694**

**Threaded Coupling/Quick Disconnect — Receptacle Assemblies, Panel Mount**

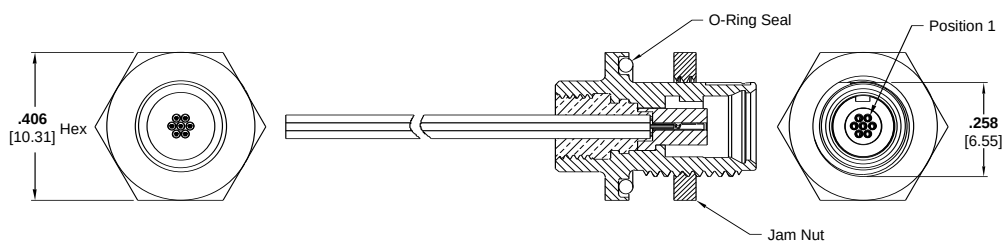


19 Position

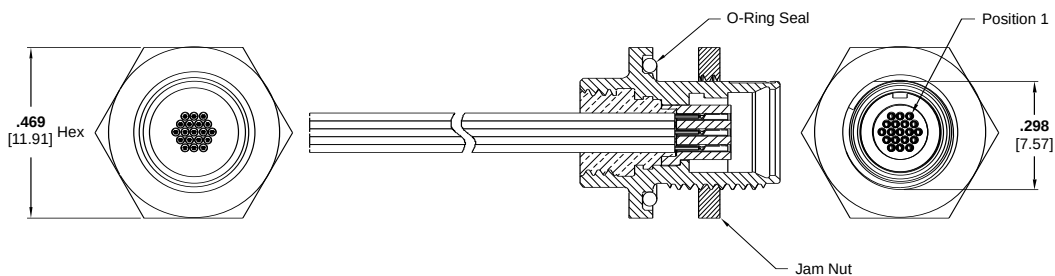
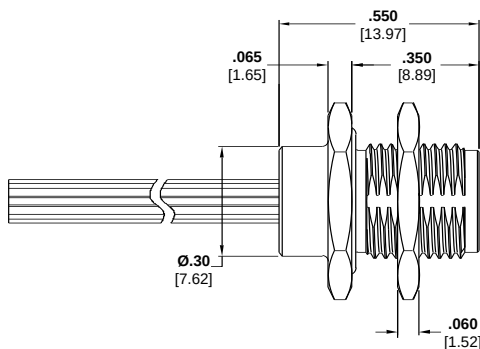


**Product Facts**

- Metal Shell
- Positions: 7, 19 and 44
- Bulkhead O-ring seal
- Factory wired to your specifications
- Panel Mount receptacle mates with the Quick Disconnect Plug and the Threaded Coupling Plug
- Contact Tyco Electronics for custom configurations

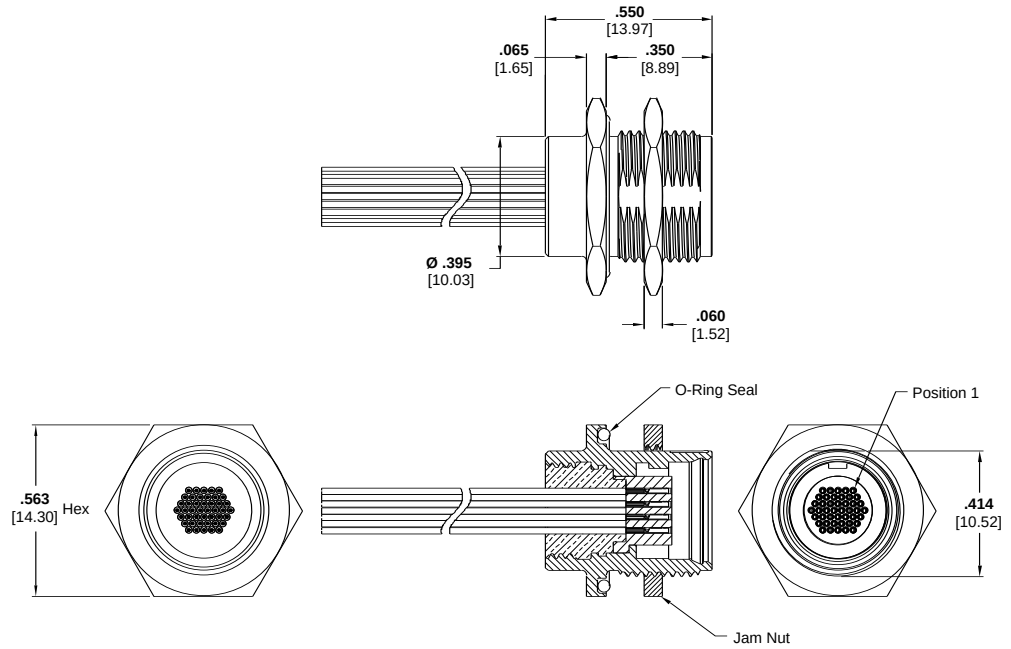


7 Position  
Drawing Number 1589060



19 Position  
Drawing Number 1589061

**Threaded Coupling/Quick Disconnect — Receptacle Assemblies, Panel Mount (Continued)**



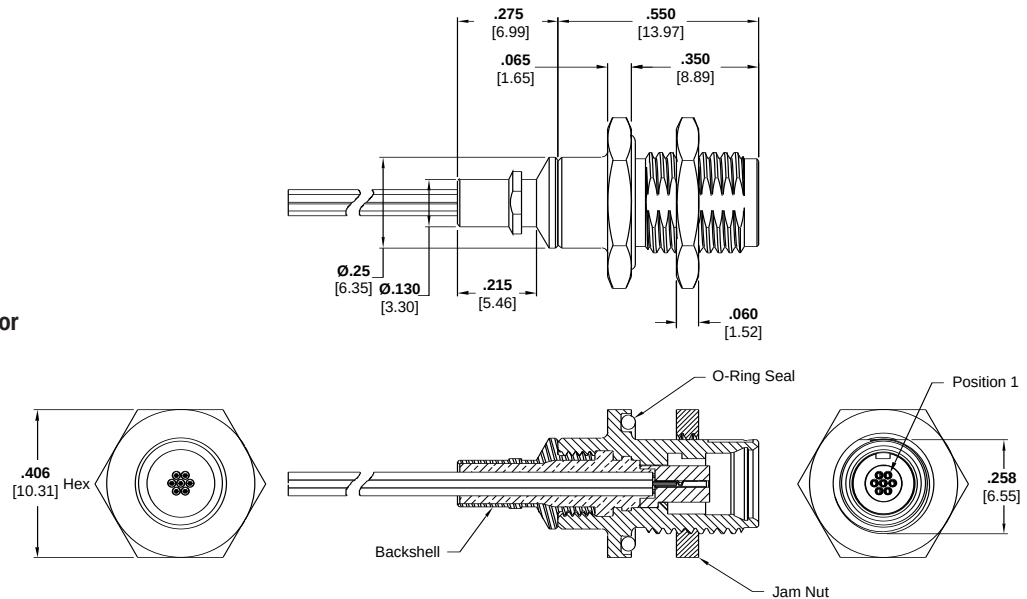
**44 Position**  
**Drawing Number 1589062**



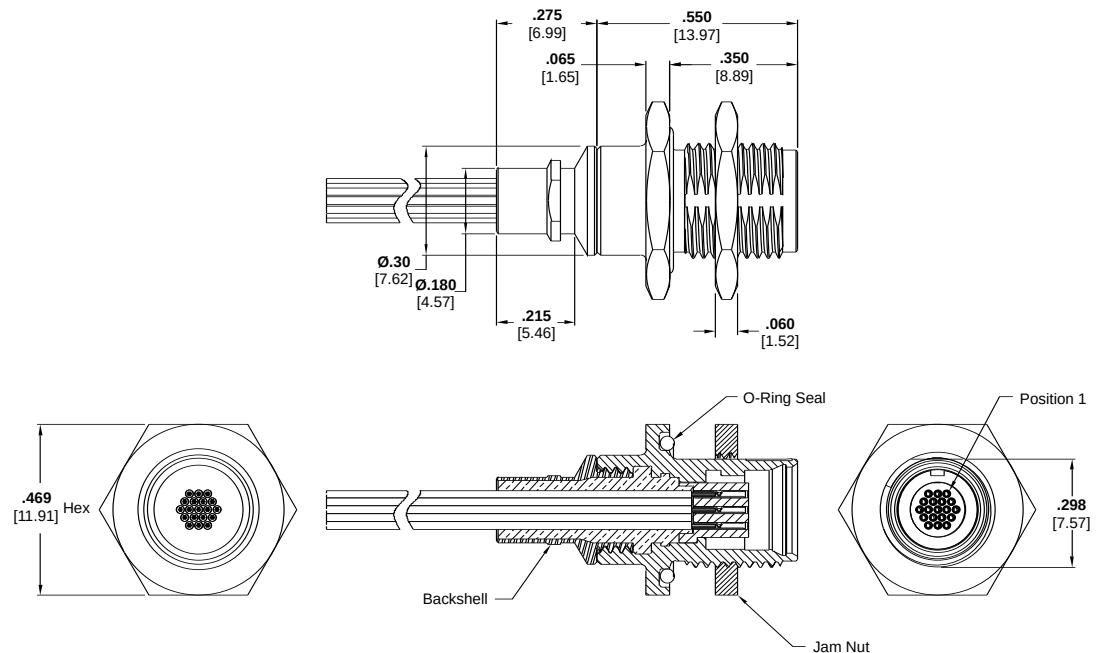
**Threaded Coupling/Quick Disconnect — Panel Mount Recp. Assemblies w/Backshells**

**Product Facts**

- Metal Shell
- Positions: 7, 19 and 44
- Bulkhead O-ring seal
- Factory wired to your specifications
- Panel Mount receptacle mates with the Quick Disconnect Plug and the Threaded Coupling Plug
- Contact Tyco Electronics for custom configurations

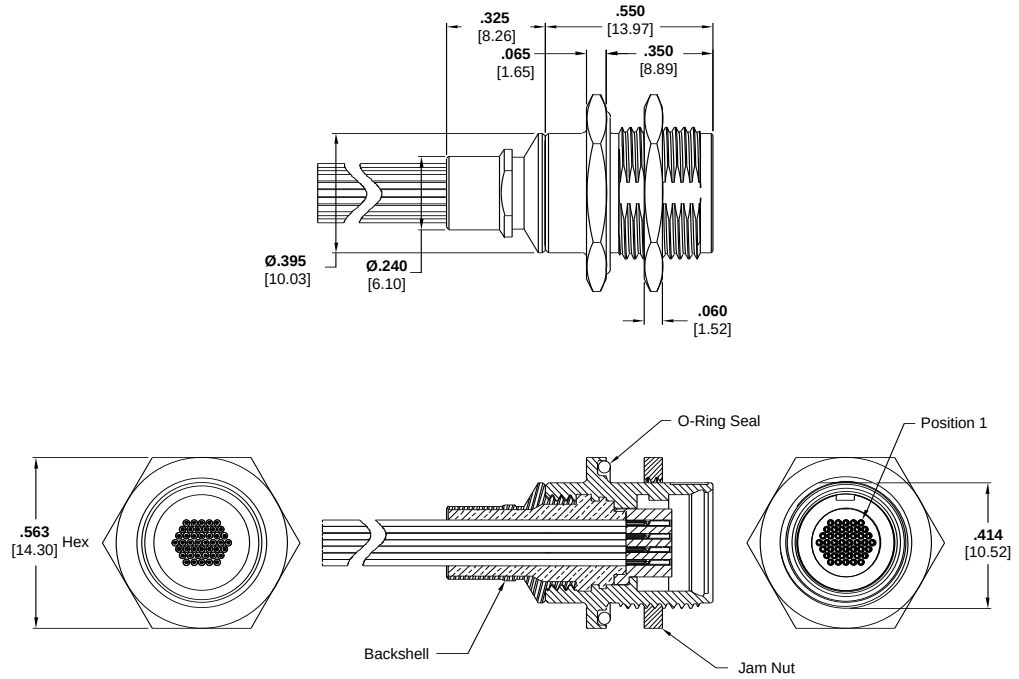


**Receptacle Assembly 7 Position**  
**Drawing Number 1589685**



**Receptacle Assembly 19 Position**  
**Drawing Number 1589687**

**Threaded Coupling/Quick Disconnect — Panel Mount Recp. Assemblies w/Backshells (Continued)**



**Receptacle Assembly 44 Position  
Drawing Number 1589695**

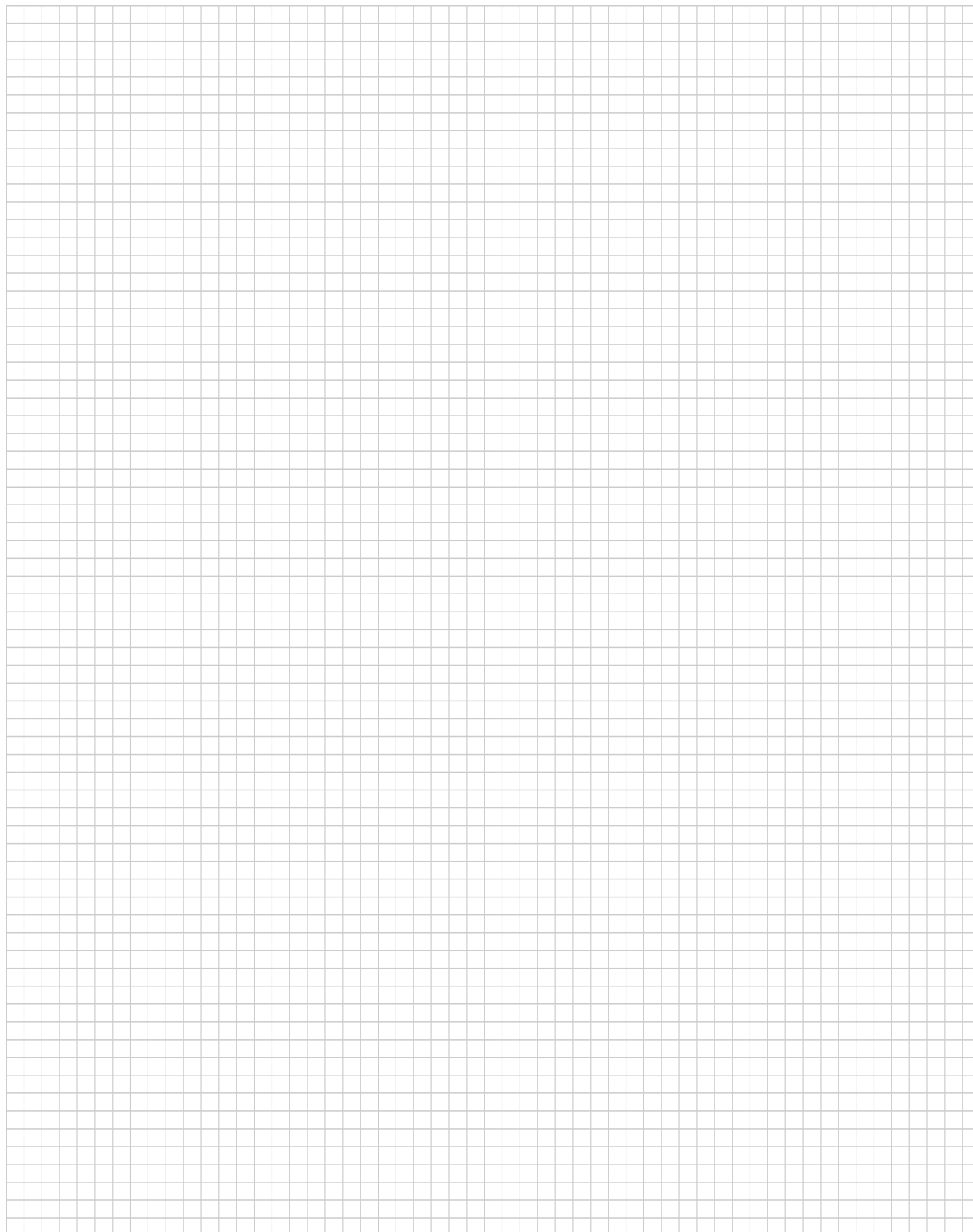
**Part Numbering Guideline for Environmentally Sealed Circular Connectors**

**Circular Connectors - Wire Terminations**

| Class/Type                                                                   | XXX | XXX | XX | X | XX | XXX | X(X) | Circular Mounting/Features                                                                     |
|------------------------------------------------------------------------------|-----|-----|----|---|----|-----|------|------------------------------------------------------------------------------------------------|
| <b>QCM</b> Quick Disconnect, Circular, Metal                                 |     |     |    |   |    |     |      | <b>Mounting (Receptacles Only)</b>                                                             |
| <b>TCM</b> Threaded Coupling, Circular, Metal<br>(TCM leadoff for plug only) |     |     |    |   |    |     |      | <b>Features (Optional)</b>                                                                     |
|                                                                              |     |     |    |   |    |     |      | <b>P</b> Panel Mount                                                                           |
|                                                                              |     |     |    |   |    |     |      | <b>B</b> Backshell (cannot be used with flush mount)                                           |
|                                                                              |     |     |    |   |    |     |      | <b>F</b> Flush Mount                                                                           |
| <b>Positions</b>                                                             |     |     |    |   |    |     |      | <b>Conductor Length</b>                                                                        |
| <b>007</b> 7 Position                                                        |     |     |    |   |    |     |      | <b>XXX</b> Three numbers only, length is in inches ( i.e. 012 = twelve inches)                 |
| <b>019</b> 19 Position                                                       |     |     |    |   |    |     |      | <b>CXX</b> A "C" followed by two numbers, length is in centimeters ( i.e. C06 = 6 centimeters) |
| <b>044</b> 44 Position                                                       |     |     |    |   |    |     |      | <b>MX</b> An "M" followed by two numbers, length is in meters ( i.e. M02 = 2 meters)           |
| <b>Configuration</b>                                                         |     |     |    |   |    |     |      | <b>Conductor Type</b>                                                                          |
| <b>PC</b> Plug                                                               |     |     |    |   |    |     |      | <b>DX</b> White Teflon                                                                         |
| <b>SC</b> Receptacle                                                         |     |     |    |   |    |     |      | <b>DY</b> White PTFE per M16878/6                                                              |
|                                                                              |     |     |    |   |    |     |      | <b>DC</b> Color Coded Teflon                                                                   |
|                                                                              |     |     |    |   |    |     |      | <b>DM</b> Color Coded Teflon per MIL-STD-681                                                   |
|                                                                              |     |     |    |   |    |     |      | <b>DT</b> White Tefzel per M22759/33                                                           |
| <b>Conductor Size/Strands</b>                                                |     |     |    |   |    |     |      |                                                                                                |
| <b>0</b> 28 AWG Solid                                                        |     |     |    |   |    |     |      |                                                                                                |
| <b>1</b> 30 AWG Solid                                                        |     |     |    |   |    |     |      |                                                                                                |
| <b>2</b> 30 AWG 7 Strand                                                     |     |     |    |   |    |     |      |                                                                                                |
| <b>3</b> 32 AWG 7 Strand                                                     |     |     |    |   |    |     |      |                                                                                                |
| <b>4</b> 34 AWG 7 Strand                                                     |     |     |    |   |    |     |      |                                                                                                |

## Part Number Index Cross Reference

| Nanonics<br>Part Number | Tyco<br>Part Number | Nanonics<br>Part Number | Tyco<br>Part Number | Nanonics<br>Part Number  | Tyco<br>Part Number | Nanonics<br>Part Number | Tyco<br>Part Number |
|-------------------------|---------------------|-------------------------|---------------------|--------------------------|---------------------|-------------------------|---------------------|
| <b>Quick Disconnect</b> |                     | QCM019PC2DCC10          | 1-1589057-1         | QCM044SC2DC019PB         | 0-1589695-1         | TCM044PC2DC036          | 0-1589065-8         |
| QCM007PC2DC003          | 0-1589055-1         | QCM019PC2DMC150         | 1-1589057-2         | QCM044SC2DC020F          | 0-1589690-1         | TCM044PC2DC036B         | 0-1589694-5         |
| QCM007PC2DC006          | 0-1589055-2         | QCM019PC2DMC150B        | 0-1589692-4         | QCM044SC2DC020P          | 1-1589062-2         | TCM044PC2DC202B         | 0-1589694-7         |
| QCM007PC2DC006B         | 0-1589691-5         | QCM019PC2DMC46          | 0-1589057-8         | QCM044SC2DC024F          | 0-1589690-8         | TCM044PC2DM036          | 1-1589065-1         |
| QCM007PC2DC012          | 0-1589055-3         | QCM019PC2DMM01          | 1-1589057-0         | QCM044SC2DC024P          | 1-1589062-6         | TCM044PC2DM120          | 1-1589065-6         |
| QCM007PC2DC012B         | 0-1589691-1         | QCM019PC2DXC30          | 0-1589057-9         | QCM044SC2DC036P          | 0-1589062-5         | TCM044PC2DM120B         | 0-1589694-6         |
| QCM007PC2DC018B         | 0-1589691-2         | QCM019SC0DC012F         | 0-1589058-1         | QCM044SC2DC060F          | 0-1589690-6         | TCM044PC2DMC46          | 1-1589065-0         |
| QCM007PC2DC020          | 0-1589055-6         | QCM019SC0DC036P         | 1-1589061-4         | QCM044SC2DC080P          | 1-1589062-1         |                         |                     |
| QCM007PC2DC020B         | 0-1589691-9         | QCM019SC0DCC15P         | 0-1589061-1         | QCM044SC2DC180F          | 0-1589690-2         |                         |                     |
| QCM007PC2DC028          | 1-1589055-3         | QCM019SC0DM012F         | 1-1589058-7         | QCM044SC2DM036P          | 0-1589062-9         |                         |                     |
| QCM007PC2DC036B         | 0-1589691-3         | QCM019SC0DM072F         | 0-1589058-2         | QCM044SC2DM120P          | 1-1589062-0         |                         |                     |
| QCM007PC2DC040          | 0-1589055-8         | QCM019SC0DMC30P         | 1-1589061-2         | QCM044SC2DMC16P          | 0-1589062-6         |                         |                     |
| QCM007PC2DC072          | 0-1589055-9         | QCM019SC0DXC15P         | 0-1589061-2         | QCM044SC2DMC46P          | 0-1589062-7         |                         |                     |
| QCM007PC2DCC20B         | 0-1589691-6         | QCM019SC2DC003F         | 1-1589058-8         | QCM044SC2DMC50P          | 1-1589062-7         |                         |                     |
| QCM007PC2DCC30          | 1-1589055-0         | QCM019SC2DC003P         | 0-1589061-3         | QCM044SC3DC012F          | 0-1589690-7         |                         |                     |
| QCM007PC2DCC50B         | 1-1589691-0         | QCM019SC2DC006F         | 0-1589058-3         |                          |                     |                         |                     |
| QCM007PC2DCM01          | 1-1589055-4         | QCM019SC2DC006P         | 0-1589061-4         | <b>Threaded Coupling</b> |                     |                         |                     |
| QCM007PC2DCM02          | 1-1589055-8         | QCM019SC2DC012F         | 1-1589058-6         | TCM007PC2DC003           | 0-1589063-1         |                         |                     |
| QCM007PC2DCM03          | 1-1589055-5         | QCM019SC2DC012P         | 0-1589061-5         | TCM007PC2DC006           | 0-1589063-2         |                         |                     |
| QCM007PC2DMC150         | 1-1589055-6         | QCM019SC2DC018F         | 0-1589058-4         | TCM007PC2DC006B          | 0-1589686-2         |                         |                     |
| QCM007PC2DMC150B        | 0-1589691-7         | QCM019SC2DC020F         | 0-1589058-5         | TCM007PC2DC012           | 0-1589063-4         |                         |                     |
| QCM007PC2DMC46          | 1-1589055-1         | QCM019SC2DC020P         | 0-1589061-6         | TCM007PC2DC012B          | 0-1589686-3         |                         |                     |
| QCM007PC2DMC50          | 1-1589055-7         | QCM019SC2DC024P         | 1-1589061-5         | TCM007PC2DC018B          | 0-1589686-4         |                         |                     |
| QCM007PC2DMC50B         | 0-1589691-8         | QCM019SC2DC036P         | 0-1589061-7         | TCM007PC2DC020           | 0-1589063-9         |                         |                     |
| QCM007PC2DX006B         | 0-1589691-4         | QCM019SC2DC180F         | 1-1589058-4         | TCM007PC2DC036           | 0-1589063-7         |                         |                     |
| QCM007SC2DC003P         | 0-1589060-1         | QCM019SC2DCC30P         | 0-1589061-8         | TCM007PC2DCM02           | 1-1589063-0         |                         |                     |
| QCM007SC2DC004P         | 0-1589060-2         | QCM019SC2DM006PB        | 0-1589687-2         | TCM007PC2DM003           | 0-1589063-8         |                         |                     |
| QCM007SC2DC006F         | 0-1589056-1         | QCM019SC2DM024P         | 1-1589061-6         | TCM007PC2DM006B          | 0-1589686-1         |                         |                     |
| QCM007SC2DC006P         | 0-1589060-3         | QCM019SC2DM027PB        | 0-1589687-1         | TCM007PC2DYC10B          | 0-1589686-5         |                         |                     |
| QCM007SC2DC012P         | 0-1589060-4         | QCM019SC2DM036P         | 1-1589061-0         | TCM007PC2DYM01B          | 0-1589686-6         |                         |                     |
| QCM007SC2DC012PB        | 0-1589685-2         | QCM019SC2DMC05F         | 1-1589058-5         | TCM019PC0DC036           | 1-1589064-5         |                         |                     |
| QCM007SC2DC018PB        | 0-1589685-3         | QCM019SC2DMC16F         | 0-1589058-6         | TCM019PC0DCC10           | 0-1589064-1         |                         |                     |
| QCM007SC2DC020F         | 0-1589056-2         | QCM019SC2DMC30P         | 1-1589061-3         | TCM019PC0DXC10           | 0-1589064-2         |                         |                     |
| QCM007SC2DC020P         | 1-1589060-1         | QCM019SC2DMC46F         | 0-1589058-7         | TCM019PC2DC003           | 0-1589064-3         |                         |                     |
| QCM007SC2DC036P         | 0-1589060-7         | QCM019SC2DXC30F         | 0-1589058-8         | TCM019PC2DC006           | 0-1589064-4         |                         |                     |
| QCM007SC2DC036PB        | 0-1589685-4         | QCM019SC2DXC30P         | 0-1589061-9         | TCM019PC2DC006B          | 0-1589688-2         |                         |                     |
| QCM007SC2DCC15F         | 0-1589056-9         | QCM019SC4DX006P         | 1-1589061-1         | TCM019PC2DC012           | 0-1589064-6         |                         |                     |
| QCM007SC2DCC15P         | 1-1589060-4         | QCM044PC2DC003          | 0-1589059-1         | TCM019PC2DC012B          | 0-1589688-3         |                         |                     |
| QCM007SC2DCC20F         | 0-1589056-7         | QCM044PC2DC006          | 0-1589059-2         | TCM019PC2DC020           | 1-1589064-4         |                         |                     |
| QCM007SC2DCC30F         | 0-1589056-3         | QCM044PC2DC006B         | 0-1589693-1         | TCM019PC2DC024           | 0-1589064-8         |                         |                     |
| QCM007SC2DCC30P         | 0-1589060-9         | QCM044PC2DC012          | 0-1589059-4         | TCM019PC2DC036           | 0-1589064-9         |                         |                     |
| QCM007SC2DM003P         | 1-1589060-0         | QCM044PC2DC012B         | 0-1589693-2         | TCM019PC2DC060B          | 0-1589688-4         |                         |                     |
| QCM007SC2DM006PB        | 0-1589685-5         | QCM044PC2DC020          | 0-1589059-6         | TCM019PC2DC066           | 1-1589064-1         |                         |                     |
| QCM007SC2DM050PB        | 0-1589685-1         | QCM044PC2DC030          | 0-1589059-7         | TCM019PC2DCC30           | 1-1589064-2         |                         |                     |
| QCM007SC2DMC05F         | 0-1589056-8         | QCM044PC2DC036          | 1-1589059-1         | TCM019PC2DM006B          | 0-1589688-1         |                         |                     |
| QCM007SC2DMC16F         | 0-1589056-4         | QCM044PC2DC040          | 1-1589059-2         | TCM019PC2DM024           | 1-1589064-6         |                         |                     |
| QCM007SC2DMC46F         | 0-1589056-5         | QCM044PC2DC050          | 1-1589059-0         | TCM019PC2DM036           | 1-1589064-3         |                         |                     |
| QCM007SC2DX006F         | 0-1589056-6         | QCM044PC2DC060B         | 0-1589693-3         | TCM044PC0DM036           | 1-1589065-3         |                         |                     |
| QCM007SC2DYC15P         | 1-1589060-2         | QCM044PC2DC120B         | 0-1589693-4         | TCM044PC0DM048           | 1-1589065-4         |                         |                     |
| QCM007SC2DYM02P         | 1-1589060-5         | QCM044PC2DC180B         | 0-1589693-5         | TCM044PC0DM060           | 1-1589065-5         |                         |                     |
| QCM007SC2DYM1.5P        | 1-1589060-3         | QCM044SC0DM036P         | 1-1589062-3         | TCM044PC2DC003           | 0-1589065-1         |                         |                     |
| QCM019PC0DC012          | 0-1589057-1         | QCM044SC0DM048P         | 1-1589062-4         | TCM044PC2DC006           | 0-1589065-2         |                         |                     |
| QCM019PC0DM072B         | 0-1589692-1         | QCM044SC0DM060P         | 1-1589062-5         | TCM044PC2DC006B          | 0-1589694-1         |                         |                     |
| QCM019PC2DC003          | 0-1589057-3         | QCM044SC2DC003P         | 0-1589062-1         | TCM044PC2DC012           | 0-1589065-4         |                         |                     |
| QCM019PC2DC006          | 0-1589057-4         | QCM044SC2DC006F         | 0-1589690-3         | TCM044PC2DC012B          | 0-1589694-2         |                         |                     |
| QCM019PC2DC006B         | 0-1589692-3         | QCM044SC2DC006P         | 0-1589062-2         | TCM044PC2DC018B          | 0-1589694-3         |                         |                     |
| QCM019PC2DC012          | 0-1589057-5         | QCM044SC2DC012F         | 0-1589690-4         | TCM044PC2DC019B          | 0-1589694-4         |                         |                     |
| QCM019PC2DC020          | 0-1589057-6         | QCM044SC2DC012P         | 0-1589062-3         | TCM044PC2DC020           | 1-1589065-2         |                         |                     |
| QCM019PC2DC020B         | 0-1589692-5         | QCM044SC2DC018F         | 0-1589690-5         | TCM044PC2DC020B          | 0-1589694-8         |                         |                     |
| QCM019PC2DC120B         | 0-1589692-2         | QCM044SC2DC018P         | 0-1589062-8         | TCM044PC2DC024           | 1-1589065-7         |                         |                     |

**Engineering Notes**

## Coaxial Connectors



The Nanonics 50 ohm coaxial connector system combines the benefits of the rectangular DUALOBE connectors while offering the flexibility to terminate up to nine coaxial contacts within the same metal connector housing. Furthermore, with this unique design, five signal contacts, terminated

with 30 AWG or smaller discrete wire, can also be integrated into this connector package. These connectors are typically used in applications with frequencies up to 20 GHz.

RG-178 coaxial cable is the standard cable used on these connectors. The

receptacle coax connector is also available in a horizontal surface mount configuration allowing for wire to board applications. Harness assemblies and custom configurations can also be accommodated.

### Specifications

#### Technical and Performance Data

##### Electrical

**Contact Resistance** – .003 - .008 ohms

**Current Rating** – 1 amp max. per contact

**Dielectric Withstanding Voltage** – Volts RMS 60 Hz at room ambient conditions. At sea level 500V. At 70,000 ft. 150V.

**Insulation Resistance** – 5000 megohms min. (@ 500 VDC) at room ambient conditions.

**Magnetic Permeability** – 2 mu max.

**Temperature Range** — -55°C to +125°C

**Outer Coaxial Contacts** – BeCu Alloy plated with gold per MIL-G-45204 over nickel

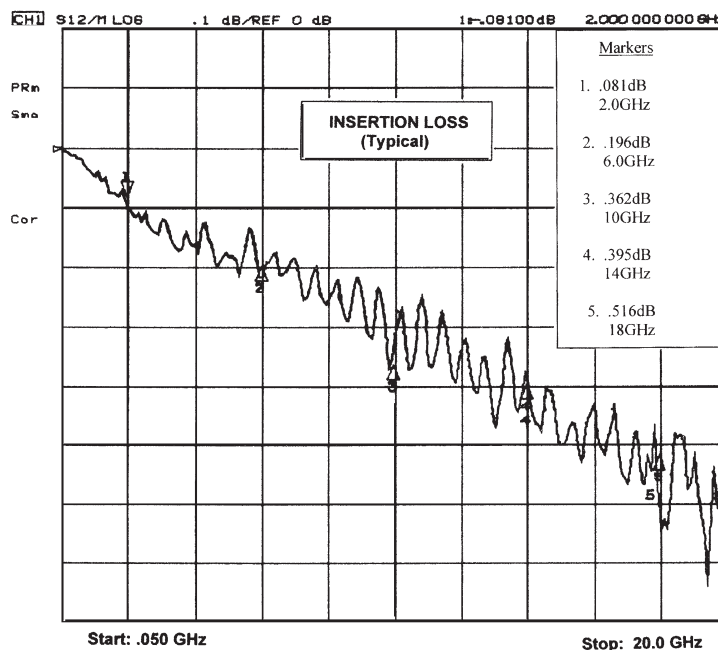
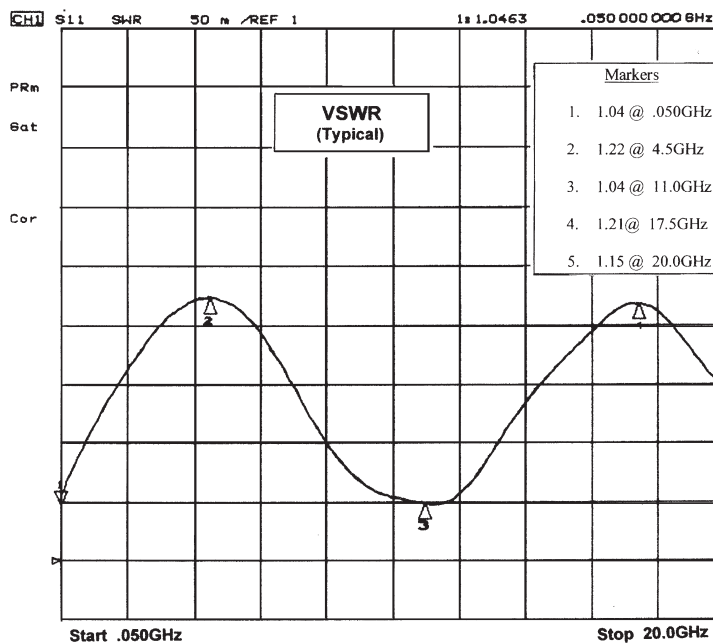
**Dielectric Insert** – Teflon

**Braid Termination** – Soldered to outer coaxial contacts with SN63P637 solder

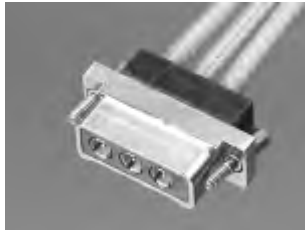
**Backpotting** – Standard for wire terminations

Typical VSWR and Insertion Loss

Note: Insertion Loss of 30 AWG Coax Cable @ (50 Ohm) is approximately 1.0db/ft. @ 3 GHz. The connector system with 6" of coax on each side, is better than 1.5db @ 3 GHz.



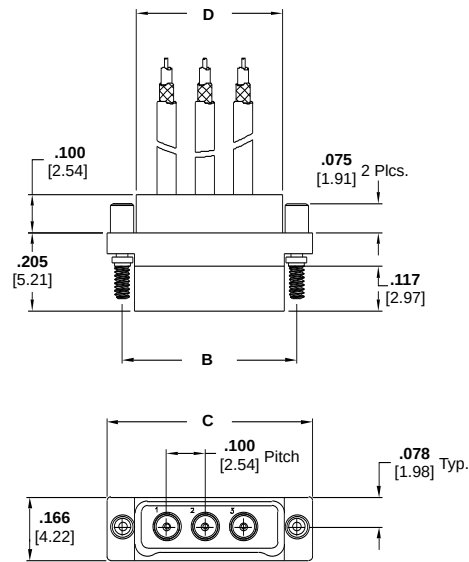
50 Ohm Coax Connectors



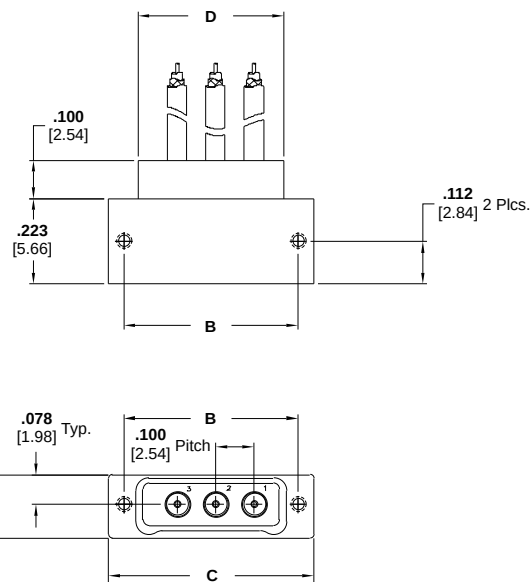
Plug



Receptacle



Plug Assembly  
Drawing Number 1589070



Receptacle Assembly  
Drawing Number 1589071

Product Facts

- Metal Shell
- Standard Sizes: 1-9
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations

| Size | Dimensions    |               |               | No. Coax |
|------|---------------|---------------|---------------|----------|
|      | B             | C             | D             |          |
| 1    | 0.254 [6.45]  | 0.335 [8.51]  | 0.180 [4.57]  | 1        |
| 2    | 0.354 [8.99]  | 0.435 [11.05] | 0.280 [7.11]  | 2        |
| 3    | 0.454 [11.53] | 0.535 [13.59] | 0.380 [9.65]  | 3        |
| 4    | 0.554 [14.07] | 0.635 [16.13] | 0.480 [12.19] | 4        |
| 5    | 0.654 [16.61] | 0.735 [18.67] | 0.580 [14.73] | 5        |
| 6    | 0.754 [19.15] | 0.835 [21.21] | 0.680 [17.27] | 6        |
| 7    | 0.854 [21.69] | 0.935 [23.75] | 0.780 [19.81] | 7        |
| 8    | 0.954 [24.23] | 1.035 [26.29] | 0.880 [22.35] | 8        |
| 9    | 1.054 [26.77] | 1.135 [28.83] | 0.980 [24.89] | 9        |

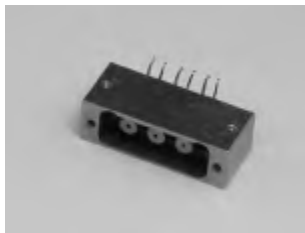


**Part Numbering Guideline for 50 Ohm Coax Connectors**

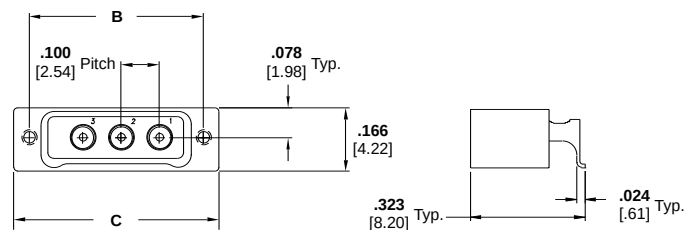
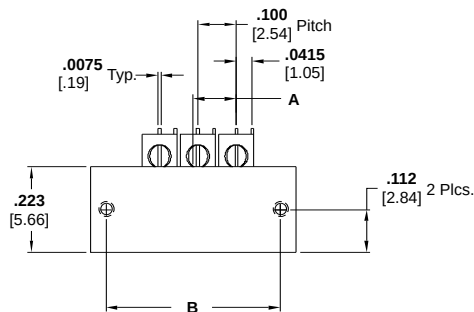
**Coax Only Connectors - Wire Terminations**

| Class/Type      | CX | XXX | XX | 2 | RG | XXX | X                                                                                       |
|-----------------|----|-----|----|---|----|-----|-----------------------------------------------------------------------------------------|
| CX Coax, 50 Ohm |    |     |    |   |    |     | Threads/Jackscrews                                                                      |
|                 |    |     |    |   |    |     | Threads (Receptacles Only)                                                              |
|                 |    |     |    |   |    |     | N Thread for 1.0 mm Jackscrews                                                          |
|                 |    |     |    |   |    |     | Q Thread for 1.2 mm Jackscrews                                                          |
|                 |    |     |    |   |    |     | Jackscrews (Plugs Only)                                                                 |
|                 |    |     |    |   |    |     | M 1.0 mm Non Captive Jackscrews                                                         |
|                 |    |     |    |   |    |     | N 1.0 mm Captive Jackscrews                                                             |
|                 |    |     |    |   |    |     | Q 1.2 mm Captive Jackscrews                                                             |
|                 |    |     |    |   |    |     | Conductor Length                                                                        |
|                 |    |     |    |   |    |     | XXX Three numbers only, length is in inches ( i.e. 012 = twelve inches)                 |
|                 |    |     |    |   |    |     | CXX A "C" followed by two numbers, length is in centimeters ( i.e. C06 = 6 centimeters) |
|                 |    |     |    |   |    |     | MXX An "M" followed by two numbers, length is in meters ( i.e. M02 = 2 meters)          |
|                 |    |     |    |   |    |     | Conductor Type                                                                          |
|                 |    |     |    |   |    |     | RG RG 178 Coaxial Cable                                                                 |
|                 |    |     |    |   |    |     | Conductor Size                                                                          |
|                 |    |     |    |   |    |     | 2 30 AWG                                                                                |
| Positions       |    |     |    |   |    |     |                                                                                         |
| 010 1 Position  |    |     |    |   |    |     |                                                                                         |
| 020 2 Position  |    |     |    |   |    |     |                                                                                         |
| 030 3 Position  |    |     |    |   |    |     |                                                                                         |
| 040 4 Position  |    |     |    |   |    |     |                                                                                         |
| 050 5 Position  |    |     |    |   |    |     |                                                                                         |
| 060 6 Position  |    |     |    |   |    |     |                                                                                         |
| 070 7 Position  |    |     |    |   |    |     |                                                                                         |
| 080 8 Position  |    |     |    |   |    |     |                                                                                         |
| 090 9 Position  |    |     |    |   |    |     |                                                                                         |
| Configuration   |    |     |    |   |    |     |                                                                                         |
| PC Plug         |    |     |    |   |    |     |                                                                                         |
| SC Receptacle   |    |     |    |   |    |     |                                                                                         |

Horizontal SMT 50 Ohm Coax Connectors



Surface Mount



Receptacle Assembly  
Drawing Number 1589072

Product Facts

- Metal Shell
- Standard Sizes: 1-9
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations

| Size | Dimensions     |               |               | No. Coax |
|------|----------------|---------------|---------------|----------|
|      | A              | B             | C             |          |
| 1    | 0.0125 [.32]   | 0.254 [6.45]  | 0.335 [8.51]  | 1        |
| 2    | 0.0625 [1.59]  | 0.354 [8.99]  | 0.435 [11.05] | 2        |
| 3    | 0.1125 [2.86]  | 0.454 [11.53] | 0.535 [13.59] | 3        |
| 4    | 0.1625 [4.13]  | 0.554 [14.07] | 0.635 [16.13] | 4        |
| 5    | 0.2125 [5.40]  | 0.654 [16.61] | 0.735 [18.67] | 5        |
| 6    | 0.2625 [6.67]  | 0.754 [19.15] | 0.835 [21.21] | 6        |
| 7    | 0.3125 [7.94]  | 0.854 [21.69] | 0.935 [23.75] | 7        |
| 8    | 0.3625 [9.21]  | 0.954 [24.23] | 1.035 [26.29] | 8        |
| 9    | 0.4125 [10.48] | 1.054 [26.77] | 1.135 [28.83] | 9        |

**Part Numbering Guideline for Horizontal SMT 50 Ohm Coax Connectors**

**Coax Only Connectors - SMT Termination**

| Class/Type       | CX | XXX | L2 | XXX | X                              |
|------------------|----|-----|----|-----|--------------------------------|
| CX Coax, 50 ohm  |    |     |    |     | <b>Jackscrew Threads</b>       |
|                  |    |     |    |     | <b>Threads</b>                 |
|                  |    |     |    |     | N Thread for 1.0 mm Jackscrews |
|                  |    |     |    |     | Q Thread for 1.2 mm Jackscrews |
|                  |    |     |    |     | <b>Mounting Hardware</b>       |
|                  |    |     |    |     | A 1.2 mm x .160"               |
|                  |    |     |    |     | H 1.0 mm x .160"               |
|                  |    |     |    |     | <b>Configuration</b>           |
|                  |    |     | L2 |     | Receptacle, Horizontal SMT     |
| <b>Positions</b> |    |     |    |     |                                |
| 010 1 Position   |    |     |    |     |                                |
| 020 2 Position   |    |     |    |     |                                |
| 030 3 Position   |    |     |    |     |                                |
| 040 4 Position   |    |     |    |     |                                |
| 050 5 Position   |    |     |    |     |                                |
| 060 6 Position   |    |     |    |     |                                |
| 070 7 Position   |    |     |    |     |                                |
| 080 8 Position   |    |     |    |     |                                |
| 090 9 Position   |    |     |    |     |                                |

50 Ohm Coax with Mixed Signal Connectors



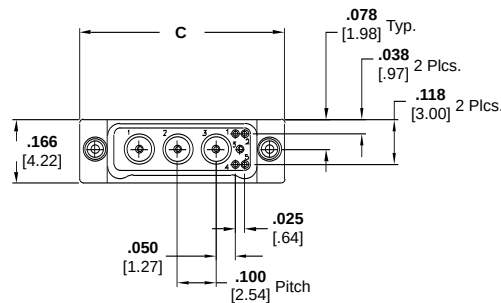
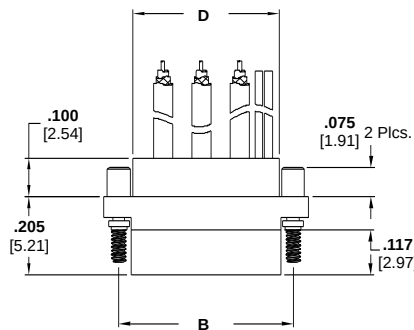
Plug



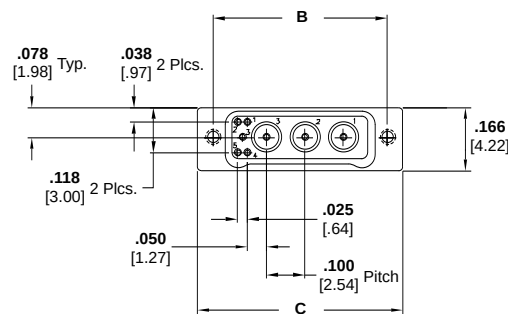
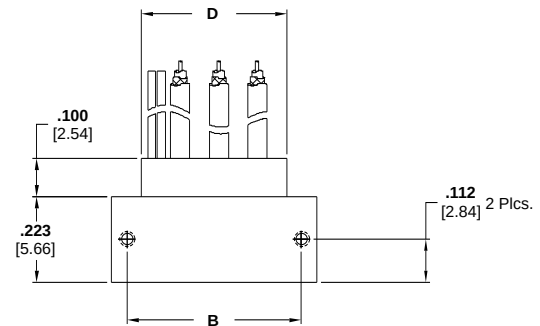
Receptacle

Product Facts

- Metal Shell
- Standard Sizes: 1-9 coaxial contacts with 5 signal contacts
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations



Plug Assembly  
Drawing Number 1589068



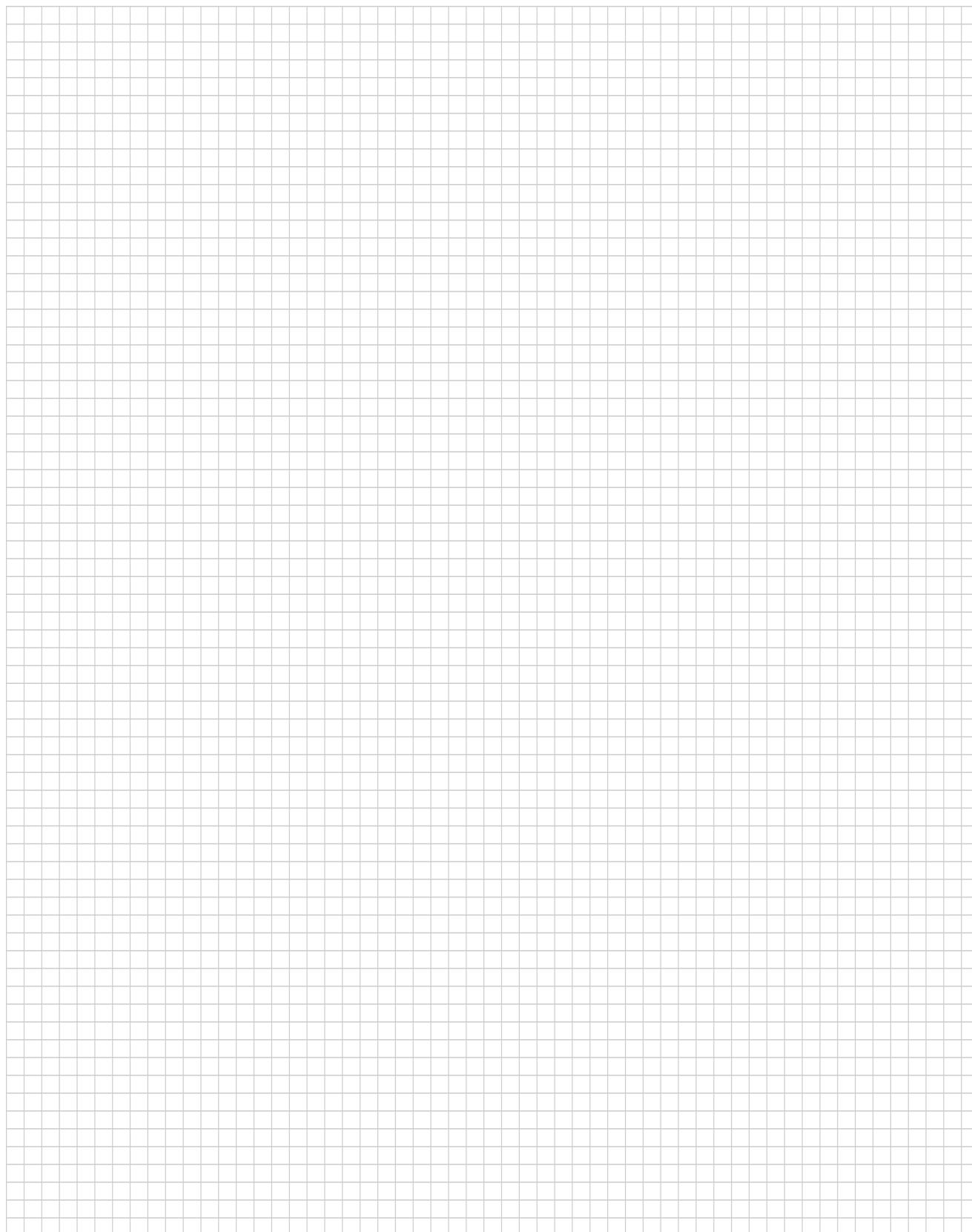
Receptacle Assembly  
Drawing Number 1589069

| Size | Dimensions    |               |               | No. Coax |
|------|---------------|---------------|---------------|----------|
|      | B             | C             | D             |          |
| 1    | 0.254 [6.45]  | 0.335 [8.51]  | 0.180 [4.57]  | 1        |
| 2    | 0.354 [8.99]  | 0.435 [11.05] | 0.280 [7.11]  | 2        |
| 3    | 0.454 [11.53] | 0.535 [13.59] | 0.380 [9.65]  | 3        |
| 4    | 0.554 [14.07] | 0.635 [16.13] | 0.480 [12.19] | 4        |
| 5    | 0.654 [16.61] | 0.735 [18.67] | 0.580 [14.73] | 5        |
| 6    | 0.754 [19.15] | 0.835 [21.21] | 0.680 [17.27] | 6        |
| 7    | 0.854 [21.69] | 0.935 [23.75] | 0.780 [19.81] | 7        |
| 8    | 0.954 [24.23] | 1.035 [26.29] | 0.880 [22.35] | 8        |
| 9    | 1.054 [26.77] | 1.135 [28.83] | 0.980 [24.89] | 9        |

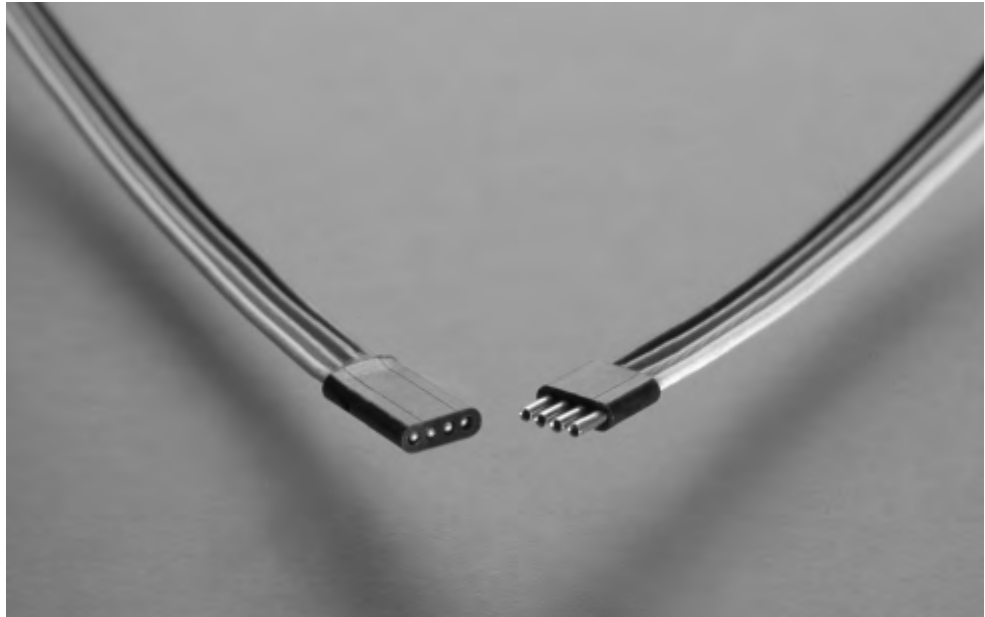


Part Number Index Cross Reference

| Nanonics<br>Part Number | Tyco<br>Part Number | Nanonics<br>Part Number        | Tyco<br>Part Number | Nanonics<br>Part Number    | Tyco<br>Part Number |
|-------------------------|---------------------|--------------------------------|---------------------|----------------------------|---------------------|
| <b>Coax Only</b>        |                     | <b>Coax with Mixed Signals</b> |                     | <b>Horizontal SMT Coax</b> |                     |
| CX010PC2RG006N          | 0-1589070-1         | CX015PC2RC012                  | 0-1589068-1         | CX010L2AQ                  | 1-1589072-3         |
| CX010PC2RG018N          | 0-1589070-2         | CX015PC2RC012N                 | 0-1589068-5         | CX010L2HN                  | 0-1589072-1         |
| CX010PC2RG048Q          | 2-1589070-8         | CX015SC2RC012N                 | 0-1589069-1         | CX020L2HN                  | 1-1589072-2         |
| CX010PC2RG072N          | 0-1589070-3         | CX035PC2RC006N                 | 0-1589068-2         | CX030L23N                  | 0-1589072-2         |
| CX010PC2RGC10Q          | 2-1589070-1         | CX035PC2RC018N                 | 0-1589068-3         | CX030L23Q                  | 0-1589072-5         |
| CX010SC2RG048Q          | 2-1589071-3         | CX035SC2RC006N                 | 0-1589069-2         | CX030L2HN                  | 0-1589072-3         |
| CX020PC2RG018N          | 0-1589070-4         | CX035SC2RC018N                 | 0-1589069-3         | CX040L2AQ                  | 1-1589072-0         |
| CX020PC2RG048N          | 2-1589070-5         | CX045PC2RC006N                 | 0-1589068-4         | CX040L2HN                  | 1-1589072-6         |
| CX020PC2RG060N          | 1-1589070-8         | CX045PC2RC036N                 | 0-1589068-9         | CX050L23Q                  | 0-1589072-6         |
| CX020SC2RG012N          | 2-1589071-0         | CX045PC2RC036Q                 | 1-1589068-0         | CX050L2HN                  | 0-1589072-9         |
| CX020SC2RG018N          | 2-1589071-5         | CX045SC2RC006N                 | 0-1589069-4         | CX060L2AQ                  | 1-1589072-1         |
| CX020SC2RG024N          | 0-1589071-8         | CX045SC2RC006Q                 | 0-1589069-7         | CX060L2HN                  | 1-1589072-5         |
| CX020SC2RG024Q          | 2-1589071-8         | CX055PC2RC006N                 | 0-1589068-6         | CX070L2AQ                  | 1-1589072-4         |
| CX020SC2RG060N          | 2-1589071-2         | CX055SC2RC006N                 | 0-1589069-5         | CX080L2HN                  | 0-1589072-4         |
| CX030PC2RG006N          | 0-1589070-5         | CX095PC2RC006N                 | 0-1589068-7         |                            |                     |
| CX030PC2RG012           | 0-1589070-6         | CX095PC2RC036N                 | 0-1589068-8         |                            |                     |
| CX030PC2RG012N          | 0-1589070-7         | CX095SC2RC006N                 | 0-1589069-6         |                            |                     |
| CX030PC2RG018N          | 0-1589070-8         |                                |                     |                            |                     |
| CX030PC2RG020Q          | 0-1589070-9         |                                |                     |                            |                     |
| CX030PC2RG048N          | 2-1589070-4         |                                |                     |                            |                     |
| CX030PC2RG060N          | 2-1589070-6         |                                |                     |                            |                     |
| CX030SC2RG006N          | 0-1589071-3         |                                |                     |                            |                     |
| CX030SC2RG012           | 0-1589071-4         |                                |                     |                            |                     |
| CX030SC2RG012N          | 1-1589071-8         |                                |                     |                            |                     |
| CX030SC2RG060N          | 2-1589071-1         |                                |                     |                            |                     |
| CX040PC2RG012N          | 1-1589070-0         |                                |                     |                            |                     |
| CX040PC2RG030N          | 1-1589070-1         |                                |                     |                            |                     |
| CX040PC2RG039Q          | 3-1589070-7         |                                |                     |                            |                     |
| CX040PC2RG060N          | 1-1589070-7         |                                |                     |                            |                     |
| CX040SC2RG012           | 0-1589071-5         |                                |                     |                            |                     |
| CX040SC2RG024N          | 0-1589071-7         |                                |                     |                            |                     |
| CX050PC2RG006N          | 1-1589070-4         |                                |                     |                            |                     |
| CX050SC2RG006N          | 1-1589071-9         |                                |                     |                            |                     |
| CX060PC2RG012N          | 3-1589070-8         |                                |                     |                            |                     |
| CX060PC2RG012Q          | 3-1589070-3         |                                |                     |                            |                     |
| CX060PC2RG018N          | 3-1589070-5         |                                |                     |                            |                     |
| CX060PC2RG036N          | 3-1589070-0         |                                |                     |                            |                     |
| CX060PC2RG072N          | 3-1589070-1         |                                |                     |                            |                     |
| CX060PC2RG144N          | 3-1589070-2         |                                |                     |                            |                     |
| CX060PC2RGC10Q          | 2-1589070-0         |                                |                     |                            |                     |
| CX060SC2RG012Q          | 2-1589071-6         |                                |                     |                            |                     |
| CX070PC2RGC10Q          | 2-1589070-3         |                                |                     |                            |                     |
| CX080PC2RG006N          | 2-1589070-2         |                                |                     |                            |                     |
| CX080PC2RG012N          | 3-1589070-9         |                                |                     |                            |                     |
| CX080PC2RG012Q          | 3-1589070-4         |                                |                     |                            |                     |
| CX080PC2RG018N          | 3-1589070-6         |                                |                     |                            |                     |
| CX080PC2RG024N          | 2-1589070-9         |                                |                     |                            |                     |
| CX080PC2RG036N          | 1-1589070-5         |                                |                     |                            |                     |
| CX080PC2RG048N          | 1-1589070-6         |                                |                     |                            |                     |
| CX080PC2RG060N          | 1-1589070-9         |                                |                     |                            |                     |
| CX080PC2RGC10N          | 2-1589070-7         |                                |                     |                            |                     |
| CX080SC2RG012N          | 2-1589071-4         |                                |                     |                            |                     |
| CX080SC2RG012Q          | 2-1589071-7         |                                |                     |                            |                     |
| CX080SC2RG015N          | 1-1589071-7         |                                |                     |                            |                     |
| CX080SC2RG024N          | 0-1589071-9         |                                |                     |                            |                     |
| CX090PC2RG036N          | 1-1589070-2         |                                |                     |                            |                     |
| CX090SC2RG036N          | 0-1589071-6         |                                |                     |                            |                     |



**Strip Connectors**



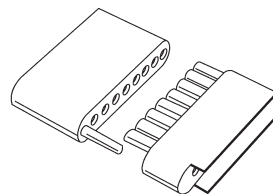
The Nanonics strip connectors are the smallest connectors in the Nanonics product line. They are molded from LCP and are ideal for applications where the height and weight of the connector is a serious design parameter. Just .040" in height, these

connectors are well suited for low-profile applications. Standard sizes are 4, 9, and 15, while 25, 37, and 51 are also available upon request. Standard configurations include wired, surface mount, or thru-hole terminations.

Guide pins are available for polarization. Harness assemblies and custom configurations can also be accommodated.

**Polarization**

Polarization of the strips is accomplished with the use of optional polarizing guide posts.



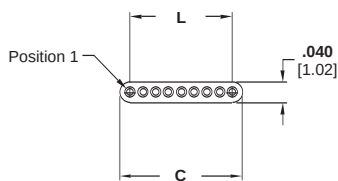
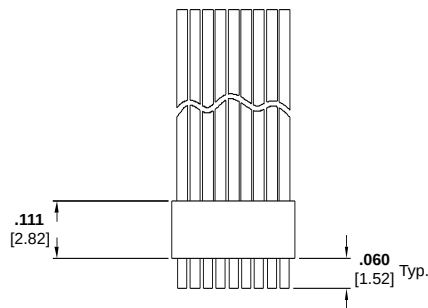
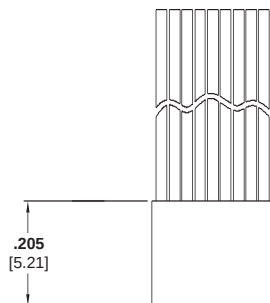
Polarization Position  
"T" Shown



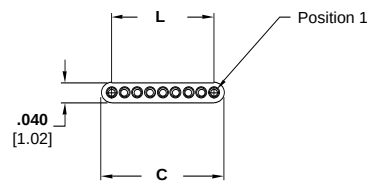
**Wired Connectors — Unshrouded, Flying Leads**

**Product Facts**

- Plastic Shell
- Standard Sizes: 4, 9, 15, 25, 37 and 51
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations



**Plug Assembly**  
Drawing Number 1589448



**Receptacle Assembly**  
Drawing Number 1589449

| Size | Dimensions    |               |
|------|---------------|---------------|
|      | C             | L             |
| 4    | 0.115 [2.92]  | 0.075 [1.91]  |
| 9    | 0.240 [6.10]  | 0.200 [5.08]  |
| 15   | 0.390 [9.91]  | 0.350 [8.89]  |
| 25   | 0.640 [16.26] | 0.600 [15.24] |
| 37   | 0.940 [23.88] | 0.900 [22.86] |
| 51   | 1.290 [32.77] | 1.250 [31.75] |

**Part Numbering Guideline for Strip Wired Connectors**

**Strip Connectors - Wire Terminations**

| Class/Row/Type                                                                                                                   | USS | XXX | XX | X | XX | XXX | X                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------|-----|-----|----|---|----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USS Unshrouded, 1 row, strip                                                                                                     |     |     |    |   |    |     | <b>Polarization (optional)</b><br>Plug contains guide post<br>Receptacle accepts guide post                                                                                                                                                                                     |
| <b>Positions</b>                                                                                                                 |     |     |    |   |    |     | <b>Conductor Length</b><br>XXX Three numbers only, length is in inches ( i.e. 012 = twelve inches)<br>CXX A "C" followed by two numbers, length is in centimeters ( i.e. C06 = 6 centimeters)<br>MXX An "M" followed by two numbers, length is in meters ( i.e. M02 = 2 meters) |
| 004 4 Position<br>009 9 Position<br>015 15 Position<br>025 25 Position                                                           |     |     |    |   |    |     | <b>Conductor Type</b><br>DX White Teflon<br>DY White PTFE per M16878/6<br>DC Color Coded Teflon<br>DM Color Coded Teflon per MIL-STD-681<br>DT White Tefzel per M22759/33                                                                                                       |
| <b>Configuration</b><br>PC Plug<br>SC Receptacle                                                                                 |     |     |    |   |    |     |                                                                                                                                                                                                                                                                                 |
| <b>Conductor Size/Strands</b><br>0 28 AWG Solid<br>1 30 AWG Solid<br>2 30 AWG 7 Strand<br>3 32 AWG 7 Strand<br>4 34 AWG 7 Strand |     |     |    |   |    |     |                                                                                                                                                                                                                                                                                 |

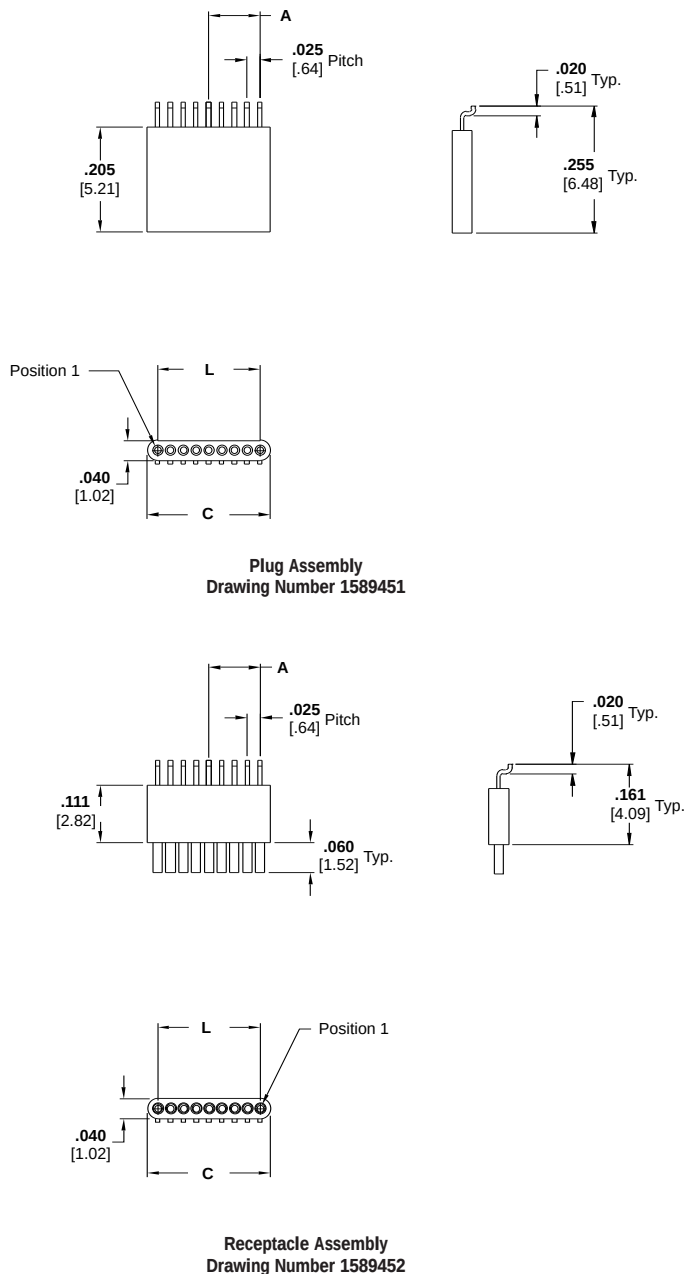
**Polarization (Strip Type Only)**

|             |  |
|-------------|--|
| T = One Pin |  |
| U = One Pin |  |
| V = One Pin |  |
| W = Two Pin |  |
| Y = Two Pin |  |
| Z = Two Pin |  |

Surface Mount Connectors — Unshrouded

Product Facts

- Plastic Shell
- Standard Sizes: 4, 9, 15, 25, 37 and 51
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations
- Suggested Pad Layouts are available on the referenced drawings on the Tyco Electronics website

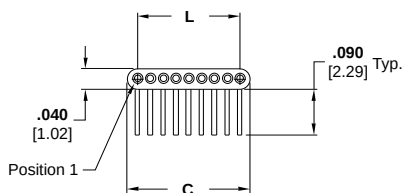
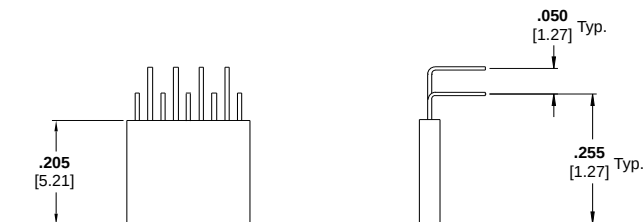


| Size | Dimensions     |               |               |
|------|----------------|---------------|---------------|
|      | A              | C             | L             |
| 4    | 0.0375 [ .95]  | 0.115 [2.92]  | 0.075 [1.91]  |
| 9    | 0.1000 [2.54]  | 0.240 [6.10]  | 0.200 [5.08]  |
| 15   | 0.1750 [4.45]  | 0.390 [9.91]  | 0.350 [8.89]  |
| 25   | 0.3000 [7.62]  | 0.640 [16.26] | 0.600 [15.24] |
| 37   | 0.4500 [11.43] | 0.940 [23.88] | 0.900 [22.86] |
| 51   | 0.6250 [15.88] | 1.290 [32.77] | 1.250 [31.75] |

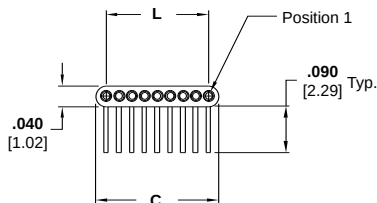
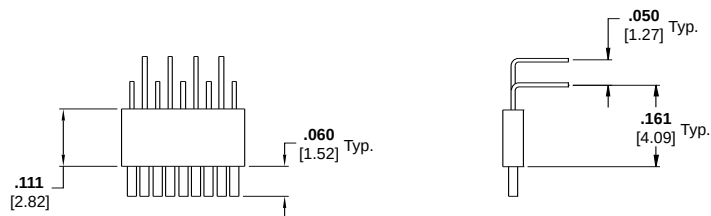
**Thru-Hole Connectors — Unshrouded, Horizontal, 1 Row to 2 Row, .050 Spacing**

**Product Facts**

- Plastic Shell
- Standard Sizes: 4, 9, 15, 25, 37 and 51
- Factory wired to your specifications
- Contact Tyco Electronics for custom configurations
- Suggested Thru-Hole Layouts are available on the referenced drawings on the Tyco Electronics website



**Plug Assembly**  
Drawing Number 1589453



**Receptacle Assembly**  
Drawing Number 1589454

| Size | Dimensions    |               |
|------|---------------|---------------|
|      | C             | L             |
| 4    | 0.115 [2.92]  | 0.075 [1.91]  |
| 9    | 0.240 [6.10]  | 0.200 [5.08]  |
| 15   | 0.390 [9.91]  | 0.350 [8.89]  |
| 25   | 0.640 [16.26] | 0.600 [15.24] |
| 37   | 0.940 [23.88] | 0.900 [22.86] |
| 51   | 1.290 [32.77] | 1.250 [31.75] |

**Part Numbering Guideline for Surface Mount and Thru Hole Termination**

**Strip Connectors - Surface Mount and Thru Hole Terminations**

| Class/Row/Type               | USS | XXX | XX | X                                                                                           |
|------------------------------|-----|-----|----|---------------------------------------------------------------------------------------------|
| USS Unshrouded, 1 row, strip |     |     |    | <b>Polarization (optional)</b><br>Plug contains guide post<br>Receptacle accepts guide post |
| <b>Positions</b>             |     |     |    | <b>Configuration</b>                                                                        |
| 004 4 Position               |     |     |    | B2 Plug, Horizontal SMT                                                                     |
| 009 9 Position               |     |     |    | L2 Receptacle, Horizontal SMT                                                               |
| 015 15 Position              |     |     |    | C6 Plug, Horizontal Mount, Thru Hole                                                        |
| 025 25 Position              |     |     |    | M6 Receptacle, Horizontal Mount, Thru Hole                                                  |

**Polarization (Strip Type Only)**

|             |                                                                                     |
|-------------|-------------------------------------------------------------------------------------|
| T = One Pin |    |
| U = One Pin |    |
| V = One Pin |    |
| W = Two Pin |   |
| Y = Two Pin |  |
| Z = Two Pin |  |

### Part Number Index Cross Reference

| Nanonics<br>Part Number  | Tyco<br>Part Number | Nanonics<br>Part Number | Tyco<br>Part Number | Nanonics<br>Part Number | Tyco<br>Part Number | Nanonics<br>Part Number | Tyco<br>Part Number |
|--------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|
| <b>Wire Terminations</b> |                     | USS004SC3DC018          | 1-1589449-8         | USS009SC3DC036          | 7-1589449-6         | <b>Surface Mount</b>    |                     |
| USS004PC2DC003           | 0-1589448-1         | USS004SC3DX004T         | 1-1589449-9         | USS009SC3DX004T         | 4-1589449-4         | USS004B2                | 0-1589451-1         |
| USS004PC2DC006           | 0-1589448-2         | USS004SC4DXC30          | 8-1589449-2         | USS015PC1DC036T         | 7-1589448-3         | USS004B2T               | 0-1589451-2         |
| USS004PC2DC006T          | 5-1589448-5         | USS009PC0DC006T         | 1-1589448-6         | USS015PC1DC036W         | 7-1589448-4         | USS004B4                | 0-1589775-1         |
| USS004PC2DC008           | 6-1589448-8         | USS009PC2DC006          | 1-1589448-7         | USS015PC2DC006          | 3-1589448-5         | USS004B45T              | 0-1589450-1         |
| USS004PC2DC012           | 0-1589448-3         | USS009PC2DC006W         | 1-1589448-8         | USS015PC2DC012          | 3-1589448-6         | USS004B4T               | 3-1589683-2         |
| USS004PC2DC012T          | 0-1589448-4         | USS009PC2DC008U         | 5-1589448-2         | USS015PC2DC012T         | 3-1589448-7         | USS004L2                | 0-1589452-1         |
| USS004PC2DC012U          | 0-1589448-5         | USS009PC2DC012          | 1-1589448-9         | USS015PC2DC012V         | 3-1589448-8         | USS004L2T               | 0-1589452-2         |
| USS004PC2DC024           | 0-1589448-6         | USS009PC2DC012T         | 2-1589448-0         | USS015PC2DC018          | 3-1589448-9         | USS009B2                | 0-1589451-3         |
| USS004PC2DC036           | 0-1589448-7         | USS009PC2DC012V         | 2-1589448-1         | USS015PC2DC018V         | 5-1589448-6         | USS009B2T               | 0-1589451-5         |
| USS004PC2DC036T          | 0-1589448-8         | USS009PC2DC018V         | 2-1589448-2         | USS015PC2DMC60T         | 4-1589448-0         | USS009B2TE              | 1-1589451-5         |
| USS004PC2DCC20T          | 5-1589448-9         | USS009PC2DC024          | 2-1589448-3         | USS015PC2DX004T         | 4-1589448-1         | USS009B2Z               | 0-1589451-6         |
| USS004PC2DCC30           | 0-1589448-9         | USS009PC2DC036          | 2-1589448-4         | USS015PC2DX012          | 4-1589448-2         | USS009B43T              | 5-1589683-6         |
| USS004PC2DCM01           | 5-1589448-7         | USS009PC2DC036T         | 2-1589448-5         | USS015PC2DX024T         | 4-1589448-3         | USS009B4T               | 5-1589683-7         |
| USS004PC2DM012T          | 7-1589448-2         | USS009PC2DC036U         | 2-1589448-6         | USS015PC3DC036          | 6-1589448-6         | USS009L2                | 0-1589452-3         |
| USS004PC2DM024T          | 7-1589448-6         | USS009PC2DC036V         | 2-1589448-7         | USS015SC1DC036T         | 8-1589449-6         | USS009L2T               | 0-1589452-4         |
| USS004PC2DMC30           | 6-1589448-9         | USS009PC2DCC05T         | 2-1589448-8         | USS015SC1DC036W         | 8-1589449-7         | USS009L2U               | 0-1589452-5         |
| USS004PC2DMC40           | 7-1589448-1         | USS009PC2DCM01          | 5-1589448-8         | USS015SC2DC006          | 4-1589449-6         | USS009L2V               | 0-1589452-6         |
| USS004PC2DMC50           | 6-1589448-7         | USS009PC2DM012T         | 7-1589448-5         | USS015SC2DC012          | 4-1589449-7         | USS015B2                | 0-1589451-8         |
| USS004PC2DMM01           | 6-1589448-0         | USS009PC2DM024T         | 7-1589448-7         | USS015SC2DC012T         | 4-1589449-8         | USS015B2T               | 0-1589451-9         |
| USS004PC2DMM02           | 6-1589448-1         | USS009PC2DX001          | 2-1589448-9         | USS015SC2DC018V         | 6-1589449-4         | USS015B4T               | 7-1589683-6         |
| USS004PC2DNC40           | 1-1589448-0         | USS009PC2DX004T         | 3-1589448-0         | USS015SC2DC024T         | 6-1589449-1         | USS015L2                | 0-1589452-7         |
| USS004PC2DX006           | 1-1589448-1         | USS009PC2DX006T         | 3-1589448-1         | USS015SC2DC036          | 7-1589449-8         | USS015L2T               | 0-1589452-8         |
| USS004PC2DX012           | 1-1589448-2         | USS009PC2DX012          | 3-1589448-2         | USS015SC2DC036T         | 4-1589449-9         | USS015L2V               | 0-1589452-9         |
| USS004PC2GX006           | 1-1589448-3         | USS009PC2GX006          | 3-1589448-3         | USS015SC2DMC60T         | 5-1589449-0         | USS025B2                | 1-1589451-0         |
| USS004PC2GX024           | 1-1589448-4         | USS009PC2GX012          | 3-1589448-4         | USS015SC2DX004T         | 5-1589449-1         | USS025B4T               | 8-1589683-6         |
| USS004PC3DC018           | 1-1589448-5         | USS009PC3DC036          | 6-1589448-5         | USS015SC2DX006T         | 6-1589449-5         | USS025L2                | 1-1589452-0         |
| USS004PC4DXC10           | 7-1589448-0         | USS009SC0DC006T         | 7-1589449-0         | USS015SC2DX018T         | 5-1589449-2         | USS025L4T               | 8-1589683-7         |
| USS004SC2DC002           | 0-1589449-1         | USS009SC2DC004          | 2-1589449-0         | USS015SC3DC036          | 7-1589449-7         | USS037B2                | 1-1589451-1         |
| USS004SC2DC003           | 0-1589449-2         | USS009SC2DC006          | 2-1589449-1         | USS015SC3DX004T         | 5-1589449-3         | USS037B2T               | 1-1589451-4         |
| USS004SC2DC003T          | 0-1589449-3         | USS009SC2DC006W         | 2-1589449-2         | USS025PC2DC006          | 4-1589448-4         | USS037L2                | 1-1589452-1         |
| USS004SC2DC004           | 0-1589449-4         | USS009SC2DC006Z         | 2-1589449-3         | USS025PC2DC012          | 6-1589448-2         | USS037L2T               | 1-1589452-2         |
| USS004SC2DC006           | 0-1589449-5         | USS009SC2DC008          | 2-1589449-4         | USS025PC2DT006T         | 5-1589448-3         | USS051B2                | 1-1589451-3         |
| USS004SC2DC006T          | 6-1589449-2         | USS009SC2DC012          | 2-1589449-5         | USS025PC2DX018T         | 4-1589448-5         | USS051L2                | 1-1589452-3         |
| USS004SC2DC008           | 8-1589449-0         | USS009SC2DC012T         | 2-1589449-6         | USS025SC2DC006          | 5-1589449-4         |                         |                     |
| USS004SC2DC012           | 0-1589449-6         | USS009SC2DC012Z         | 2-1589449-7         | USS025SC2DC012          | 7-1589449-4         | <b>Thru-Hole</b>        |                     |
| USS004SC2DC012T          | 0-1589449-7         | USS009SC2DC018          | 2-1589449-8         | USS025SC2DT006T         | 5-1589449-9         | USS004C6                | 0-1589453-1         |
| USS004SC2DC012U          | 0-1589449-8         | USS009SC2DC018T         | 2-1589449-9         | USS037PC1DXC20          | 4-1589448-6         | USS004C6T               | 0-1589453-6         |
| USS004SC2DC024           | 0-1589449-9         | USS009SC2DC018V         | 6-1589449-3         | USS037PC2DC006          | 4-1589448-7         | USS004M6                | 0-1589454-1         |
| USS004SC2DC036           | 1-1589449-0         | USS009SC2DC024          | 3-1589449-0         | USS037PC2DC012          | 6-1589448-4         | USS009C6                | 0-1589453-2         |
| USS004SC2DC048           | 1-1589449-1         | USS009SC2DC025T         | 3-1589449-1         | USS037PC2DC020T         | 4-1589448-8         | USS009C6T               | 0-1589453-3         |
| USS004SC2DCC20T          | 7-1589449-1         | USS009SC2DC036T         | 3-1589449-2         | USS037PC2DNC50          | 4-1589448-9         | USS009C6V               | 0-1589453-4         |
| USS004SC2DCC30           | 1-1589449-2         | USS009SC2DC036U         | 3-1589449-3         | USS037PC2DT006T         | 5-1589448-4         | USS009M6                | 0-1589454-2         |
| USS004SC2DCM01           | 6-1589449-7         | USS009SC2DC036V         | 3-1589449-4         | USS037SC1DXC20          | 5-1589449-5         | USS015C6                | 0-1589453-5         |
| USS004SC2DM012T          | 8-1589449-4         | USS009SC2DC036W         | 3-1589449-5         | USS037SC1DY006          | 6-1589449-6         |                         |                     |
| USS004SC2DM024T          | 8-1589449-9         | USS009SC2DC060T         | 3-1589449-6         | USS037SC2DC006          | 5-1589449-6         |                         |                     |
| USS004SC2DMC30           | 8-1589449-1         | USS009SC2DCC05T         | 3-1589449-7         | USS037SC2DC012          | 7-1589449-5         |                         |                     |
| USS004SC2DMC40           | 8-1589449-3         | USS009SC2DCM01          | 6-1589449-8         | USS037SC2DC036T         | 6-1589449-9         |                         |                     |
| USS004SC2DMC50           | 7-1589449-9         | USS009SC2DCM01T         | 3-1589449-8         | USS037SC2DT006T         | 6-1589449-0         |                         |                     |
| USS004SC2DMM01           | 7-1589449-2         | USS009SC2DM012T         | 8-1589449-8         | USS037SC2DX006T         | 5-1589449-7         |                         |                     |
| USS004SC2DMM02           | 7-1589449-3         | USS009SC2DM024T         | 9-1589449-0         | USS051PC2DC012          | 5-1589448-0         |                         |                     |
| USS004SC2DNC40           | 1-1589449-3         | USS009SC2DT012T         | 9-1589449-1         | USS051PC2DX012          | 5-1589448-1         |                         |                     |
| USS004SC2DTC20T          | 8-1589449-5         | USS009SC2DX004T         | 3-1589449-9         | USS051SC2DC012          | 5-1589449-8         |                         |                     |
| USS004SC2DX006           | 1-1589449-4         | USS009SC2DX006T         | 4-1589449-0         |                         |                     |                         |                     |
| USS004SC2DX012T          | 1-1589449-5         | USS009SC2DX012          | 4-1589449-1         |                         |                     |                         |                     |
| USS004SC2GX006           | 1-1589449-6         | USS009SC2GX006          | 4-1589449-2         |                         |                     |                         |                     |
| USS004SC2GX024           | 1-1589449-7         | USS009SC2GX012          | 4-1589449-3         |                         |                     |                         |                     |

