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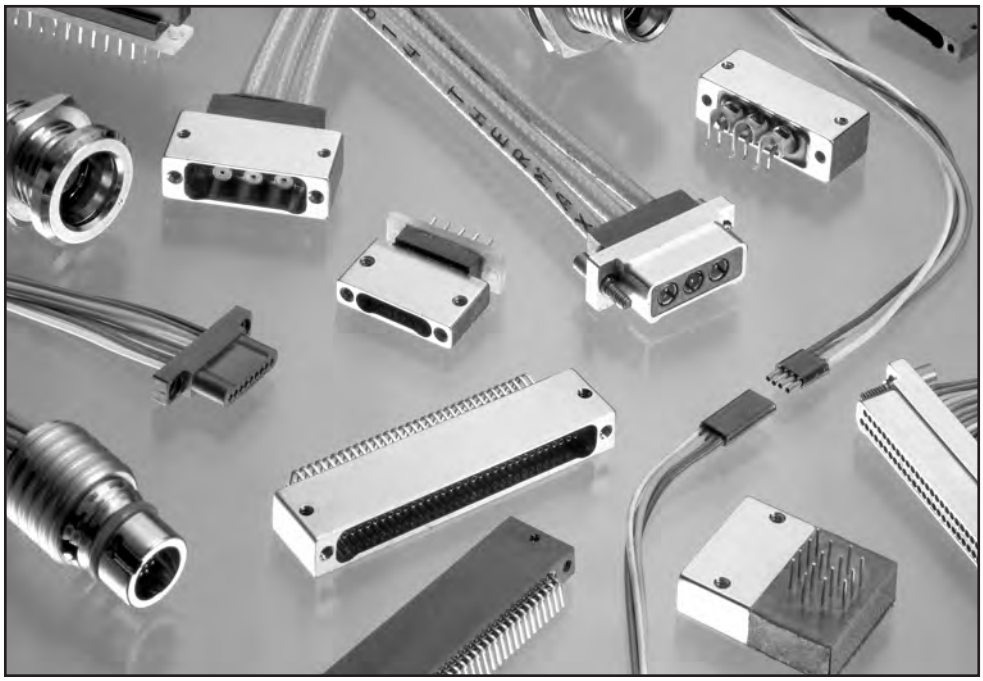
Nano-Miniature Connectors - Introduction

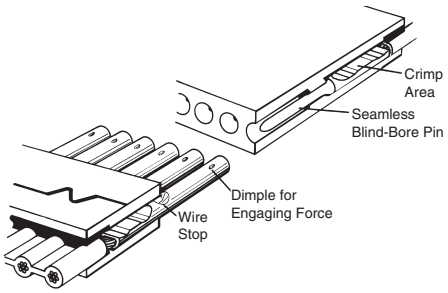


Nano-miniature connectors constitute a family of interconnect devices with center to center contact spacing of .025". In comparison to other connector families, they are often thought of as the smallest practical connector system for separable interfaces. Despite being smaller, these nano-miniature connectors 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



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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 µ sec. when tested in accordance with MIL-STD-1344, Method 2004.1, Test Condition E.

Vibration – No discontinuity in excess of 1 µ 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.

Durablity – 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.

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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.

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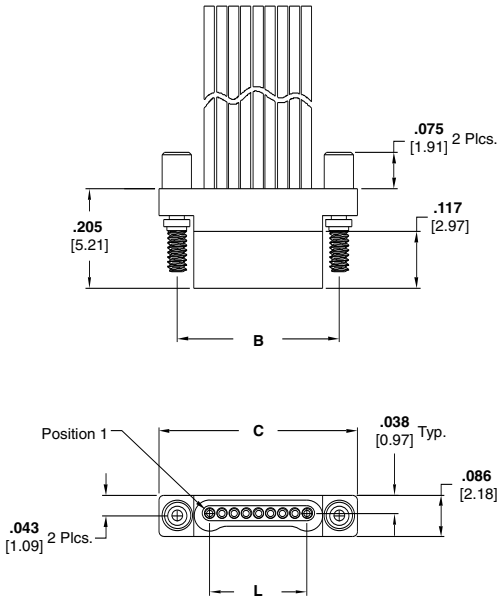
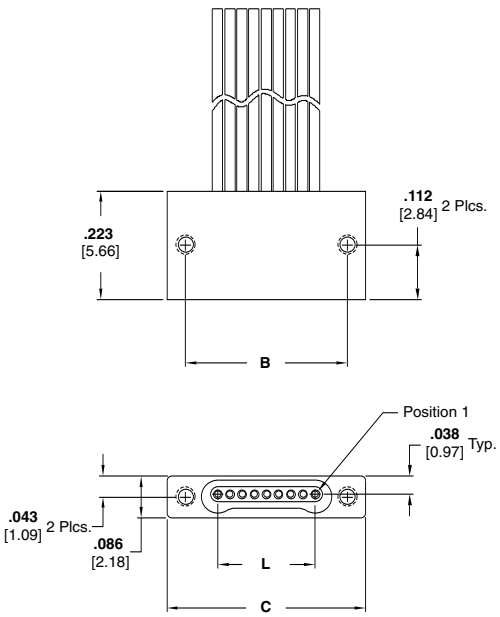
Wired Connectors — Single Row, Flying Leads

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]

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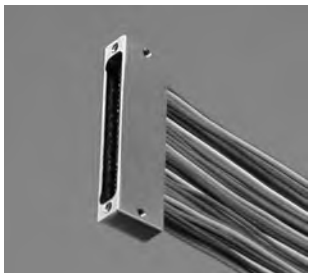
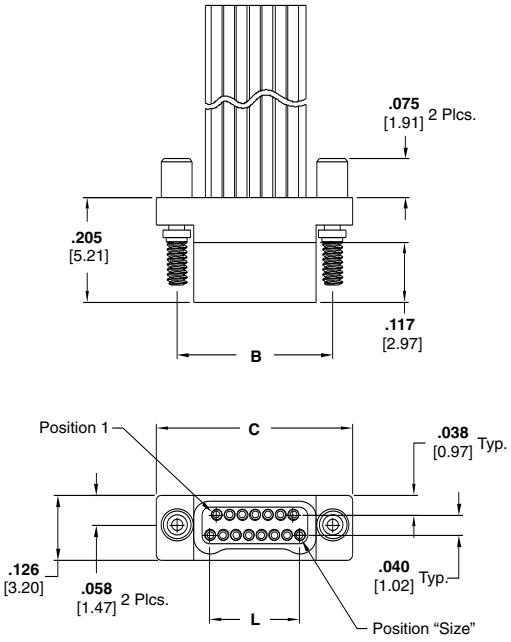
Wired Connectors — Two Row, Flying Leads

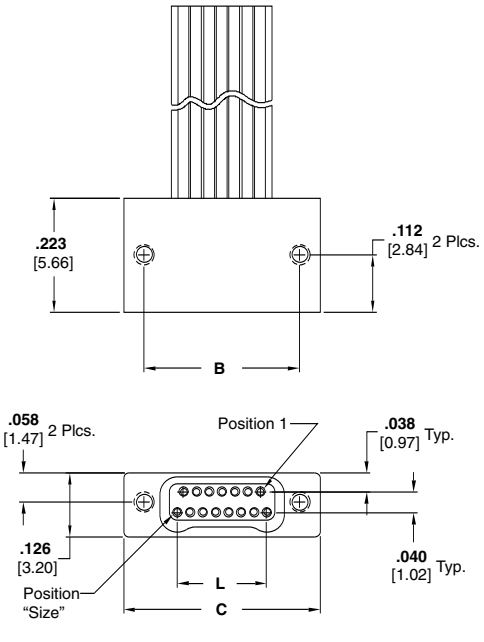
Plug



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]

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Part Numbering Guideline for Wired Connectors

DUALOBE Connectors - Wire Terminations

S X X XXX XX X XX XXX X

Class
S Dualobe

Rows
S 1 Row
T 2 Row

Type
L LCP (Plastic)
M Metal (Al, Ni Plate)

Positions
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)

Configurations
PC Plug
SC Receptacle

Conductor Size/Strands
0 28 AWG Solid
1 30 AWG Solid
2 30 AWG 7 Strand
3 32 AWG 7 Strand
4 34 AWG 7 Strand

Conductor Type

DX	White TEFLON	**DM**	Color Coded TEFLON per MIL-STD-681
DY	White PTFE M16878/6	**DT**	White TEFZEL M22759/33
DC	Color Coded TEFLON	**GX**	TEFLON Ribbon Cable FEP

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 = six centimeters)
MXX An "M" followed by two numbers, length is in meters (i.e. M02 = two meters)

Threads/Jackscrew

Threads (Receptacles Only)		Jackscrews (Plugs Only)	
N	Thread for 1.0 mm Jackscrews	**M**	1.0 mm Non Captive Jackscrew
Q	Thread for 1.2 mm Jackscrews	**N**	1.0 mm Captive Jackscrew
		Q	1.2 mm Captive Jackscrew

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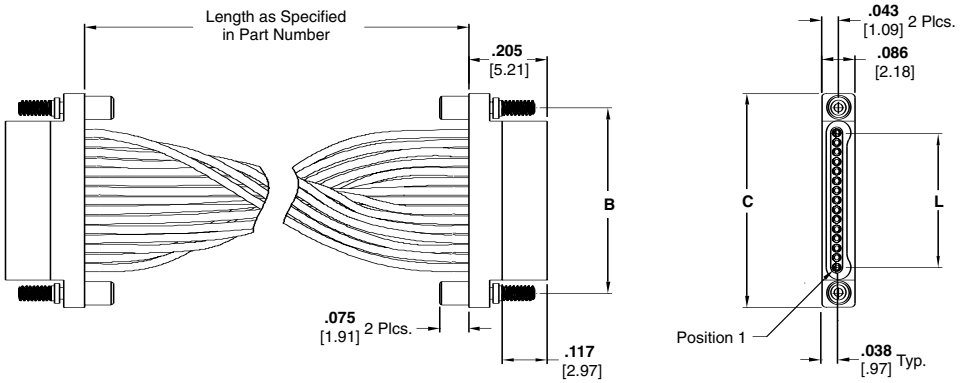
Jumper Assembly Connectors — Single Row

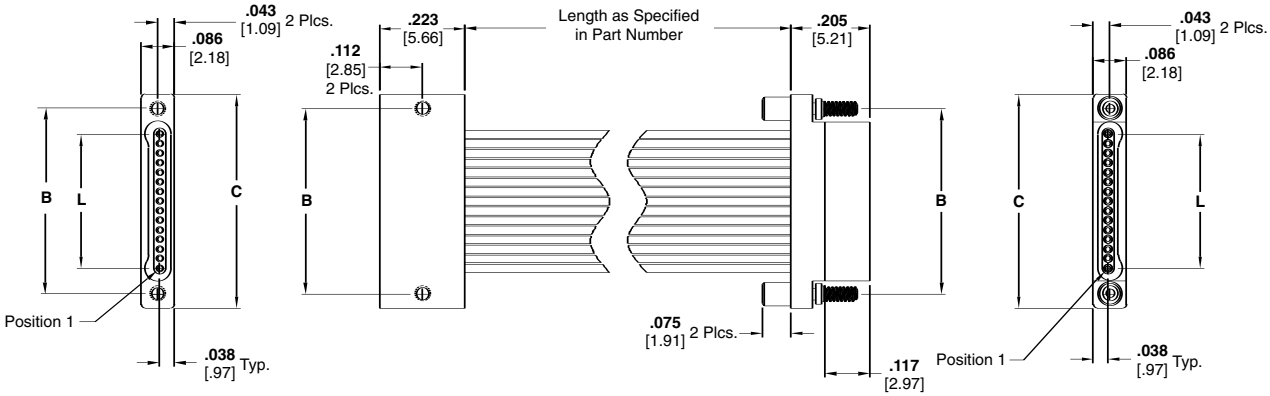
Plug to Receptacle

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]

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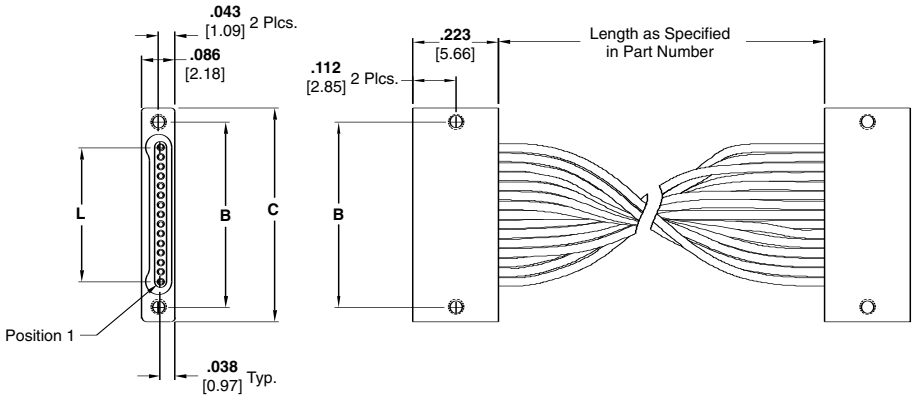
Jumper Assembly Connectors — Single Row (Continued)



Receptacle to Receptacle
Drawing Number 1589803

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]

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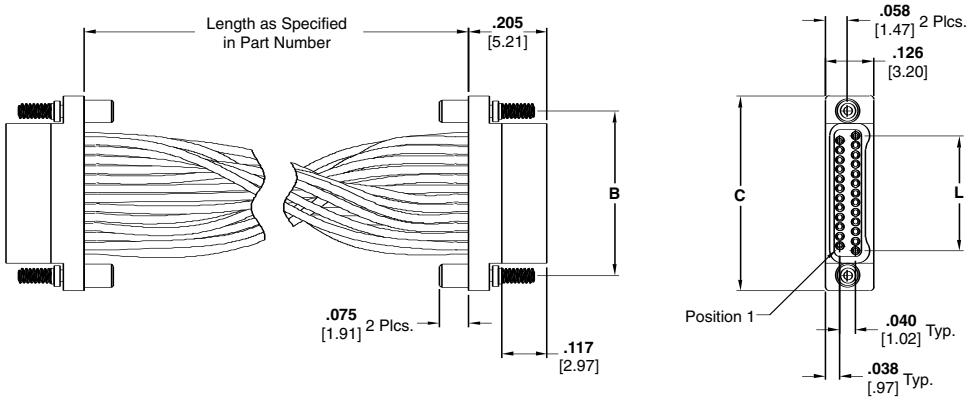
Jumper Assembly Connectors — Two Row

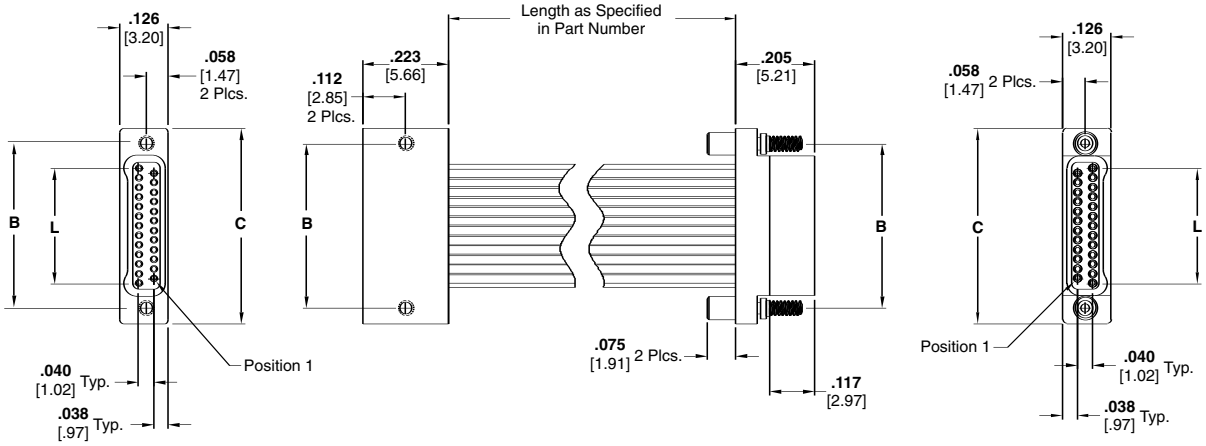
Plug to Receptacle

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]

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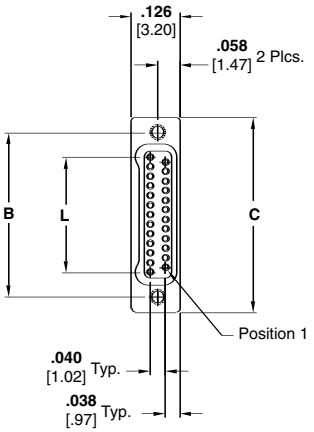
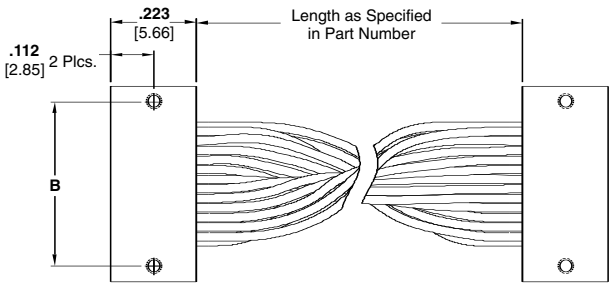
Jumper Assembly Connectors — Two Row (Continued)





Receptacle to Receptacle
Drawing Number 1589804

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]

Catalog 1308638
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Part Numbering Guideline for Jumper Assemblies

DUALOBE Connectors - Jumper Terminations

J X X XXX XX X XX XXX X

Class
J Jumper

Rows
S 1 Row
T 2 Row

Type
L LCP (Plastic)
M Metal (Al, Ni Plate)

Positions
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)

Configuration
PP Plug to Plug, 1 to 1
PR Plug to Receptacle, 1 to 1
PD Plug to Plug, low to high in row
RR Receptacle to Receptacle, 1 to 1

Conductor Size/Strands
0 28 AWG Solid
1 30 AWG Solid
2 30 AWG 7 Strand
3 32 AWG 7 Strand
4 34 AWG 7 Strand

Conductor Type

DX	White Teflon	**DM**	Color Coded Teflon per MIL-STD-681
DY	White PTFE M16878/6	**DT**	White Tefzel M22759/33
DC	Color Coded Teflon	**GX**	Telfon Ribbon Cable

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)

Threads/Jackscrews

Threads (Receptacles Only)		Jackscrews (Plugs Only)	
N	Thread for 1.0 mm Jackscrews	**M**	1.0 mm Non Captive Jackscrews
Q	Thread for 1.2 mm Jackscrews	**N**	1.0 mm Captive Jackscrews
		Q	1.2 mm Captive Jackscrews

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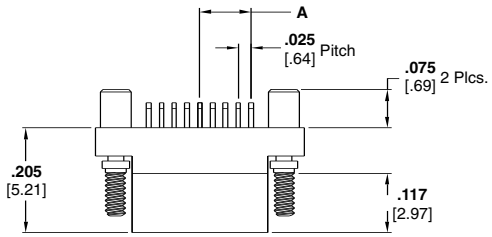
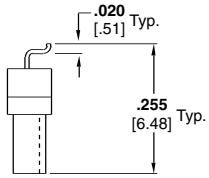
Surface Mount Connectors — Horizontal, Single Row

Receptacle

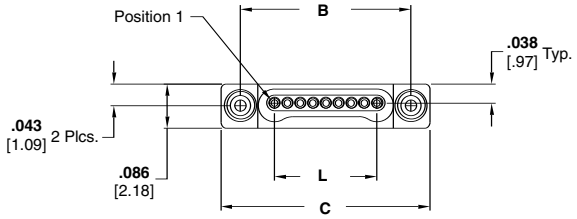
Product Facts

- 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

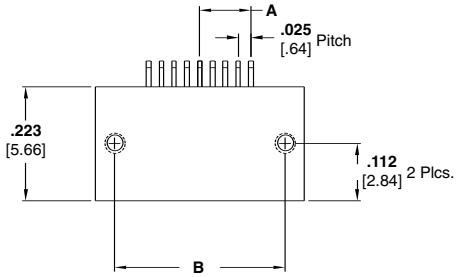


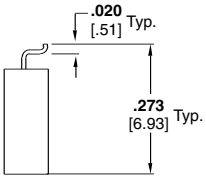


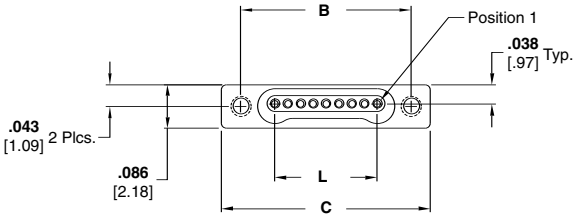
Jackscrews Omitted for Clarity



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]

Catalog 1308638
Revised 8-05

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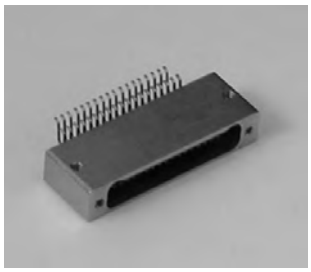
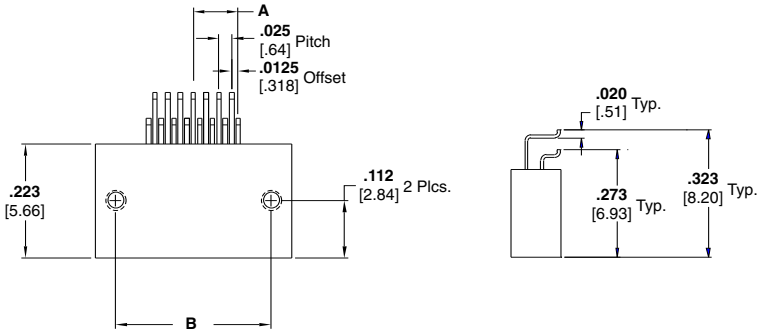
Surface Mount Connectors — Horizontal, Two Row

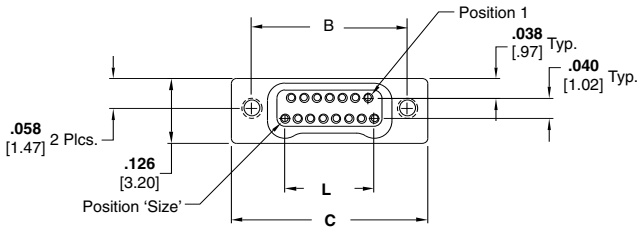


Receptacle

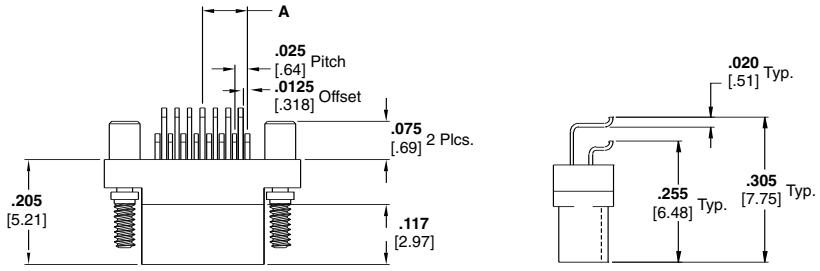


Product Facts

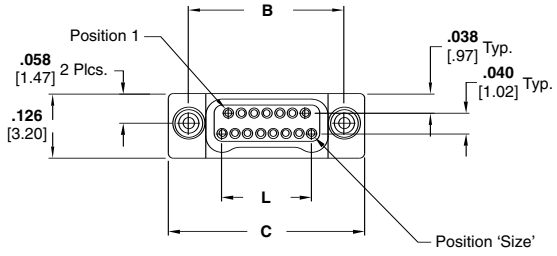
- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website



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	**0.875** [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]

Catalog 1308638
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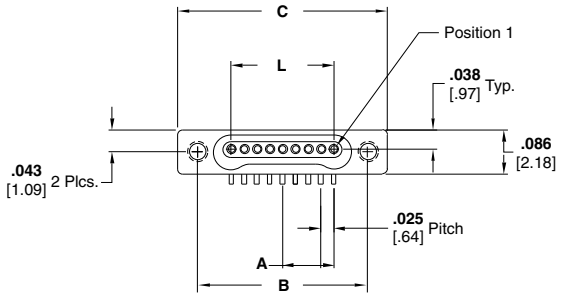
UK: 44-141-810-8967

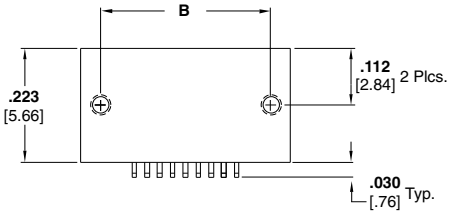
Surface Mount Connectors — Vertical, Single Row

Receptacle

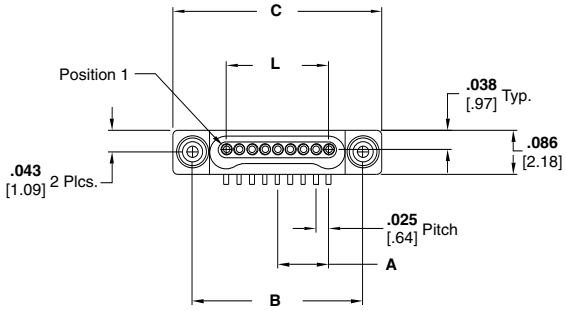
Product Facts

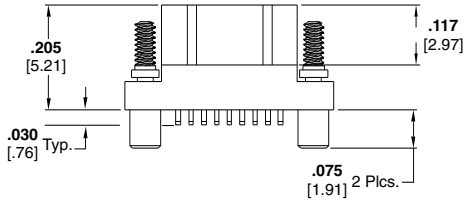
- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website





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]

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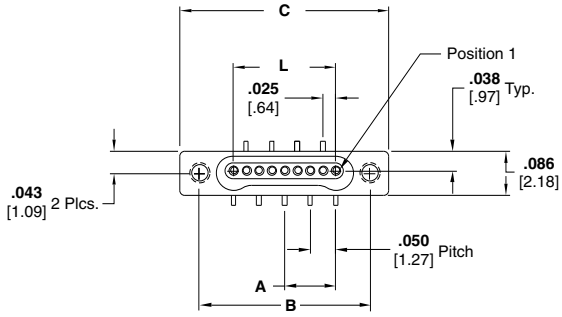
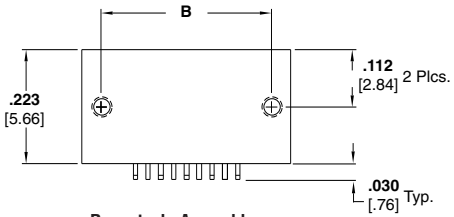
Surface Mount Connectors — Vertical, Single Row with Alternating Leads

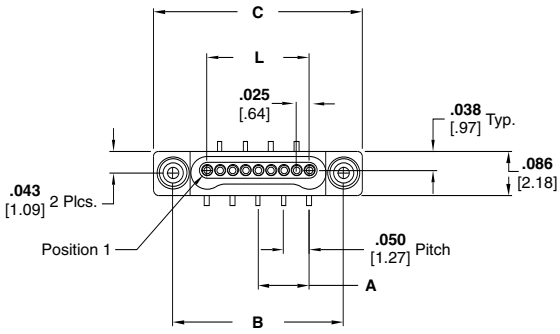
Product Facts

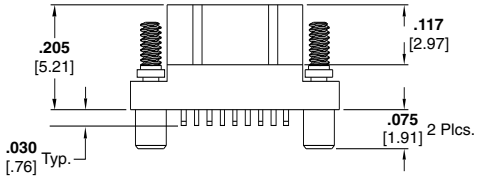
- Plastic or Metal Shell
- Standard Sizes: 5, 9, 15, 25, 37, and 51
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website





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]

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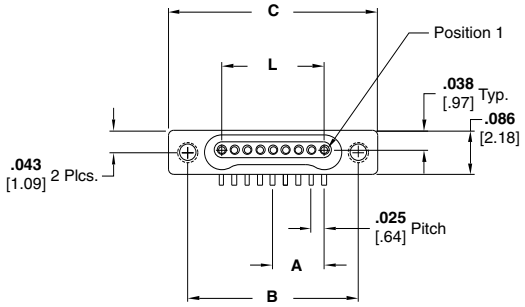
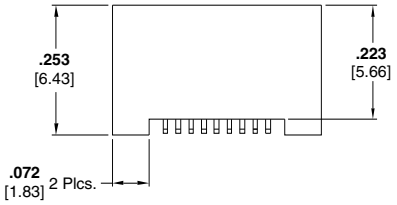
UK: 44-141-810-8967

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]

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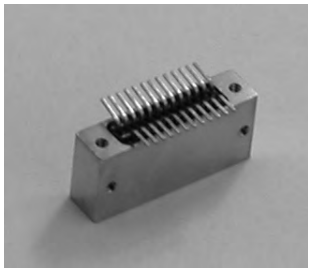
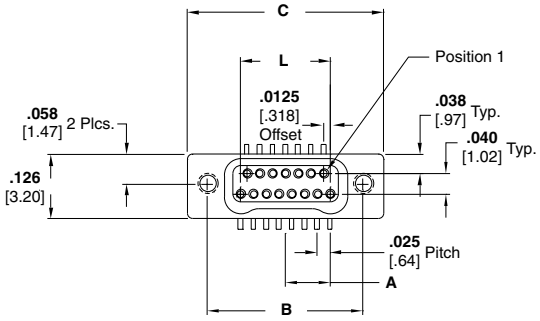
Surface Mount Connectors — Vertical, Two Row

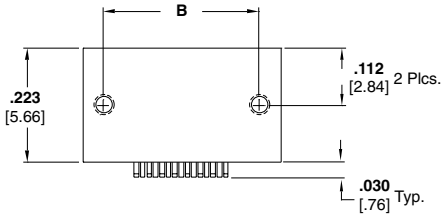


Receptacle

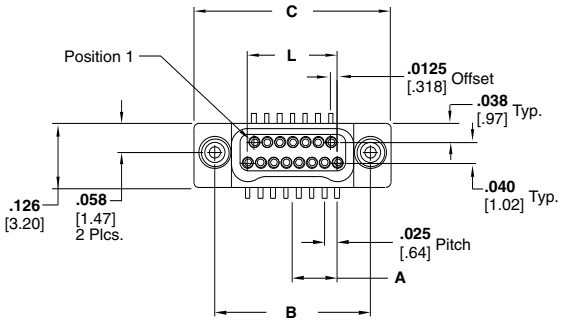
Product Facts

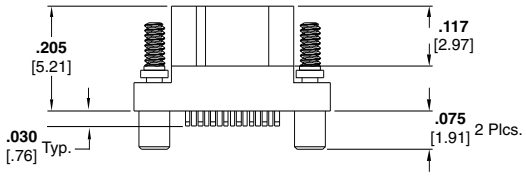
- Plastic or Metal Shell
- Standard Sizes: 9, 15, 25, 37, 51 and 65
- Contact Tyco Electronics for custom configurations
- Suggested pad layouts are available on the referenced drawings on the Tyco Electronics website





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	**0.875** [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]

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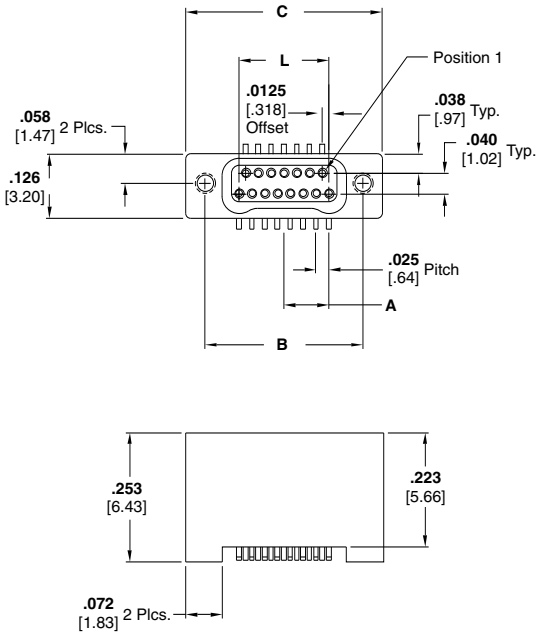
UK: 44-141-810-8967

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]

Catalog 1308638
Revised 8-05

www.tycoelectronics.com

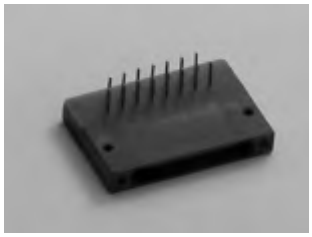
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

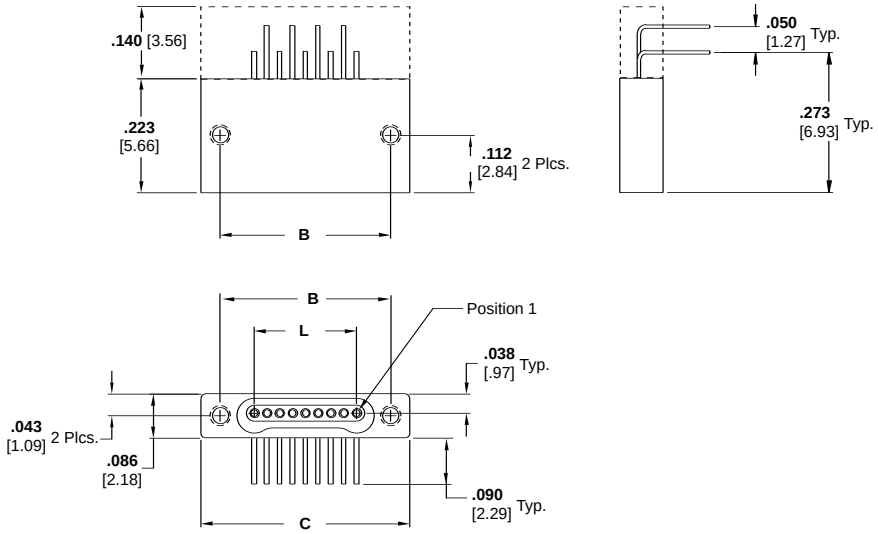
Thru-Hole Connectors — Horizontal, 1 Row to 2 Row, .050 Spacing



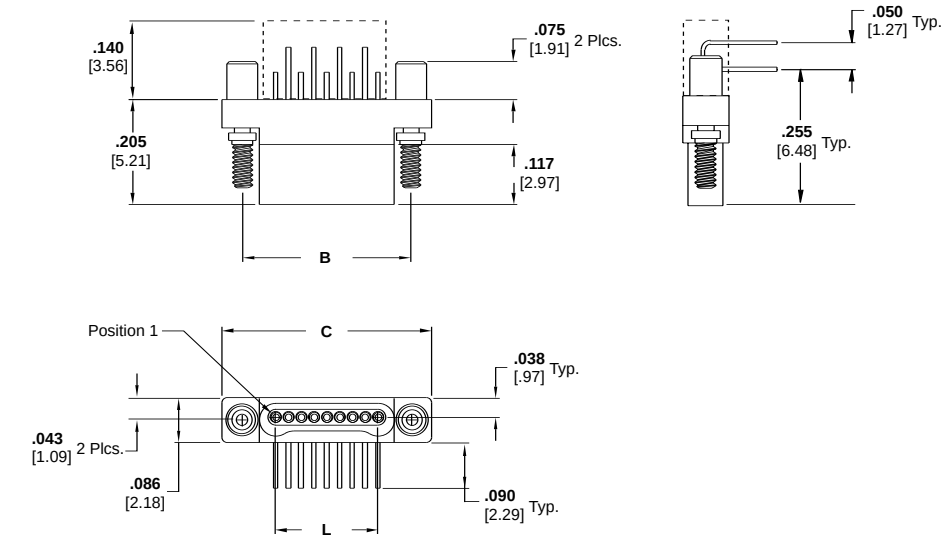
Receptacle

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]

Catalog 1308638
Revised 8-05

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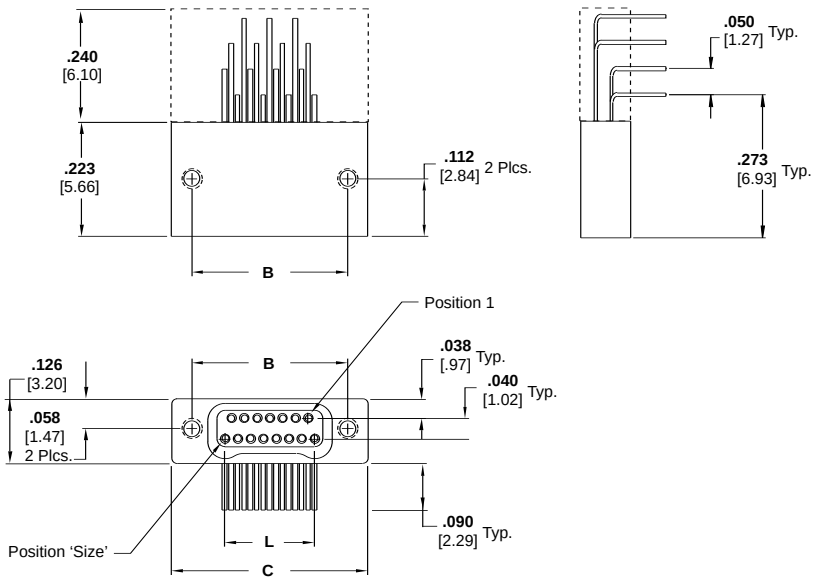
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

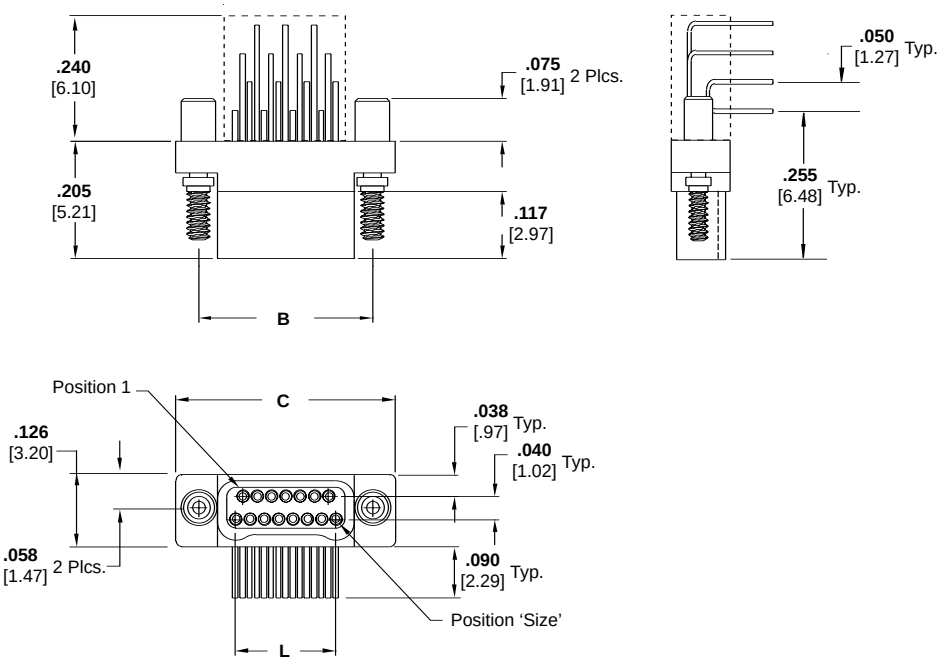
Receptacle

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]

Catalog 1308638
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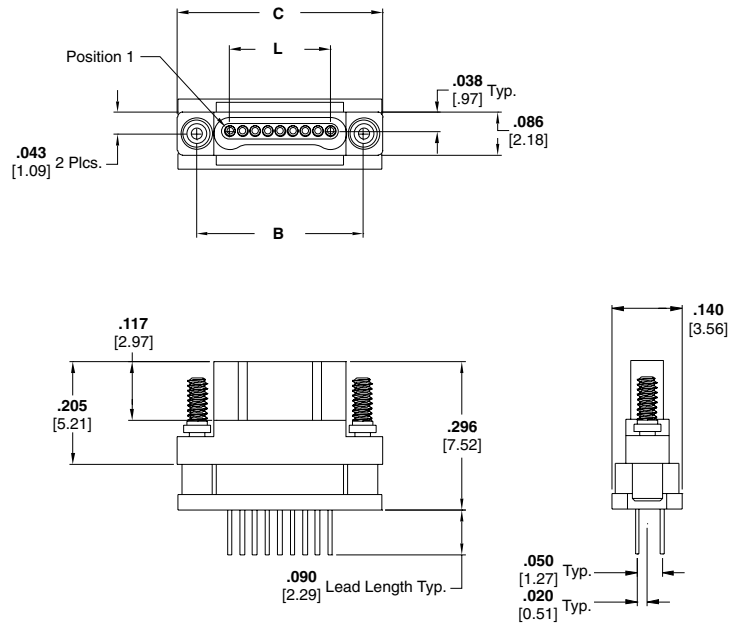
UK: 44-141-810-8967

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

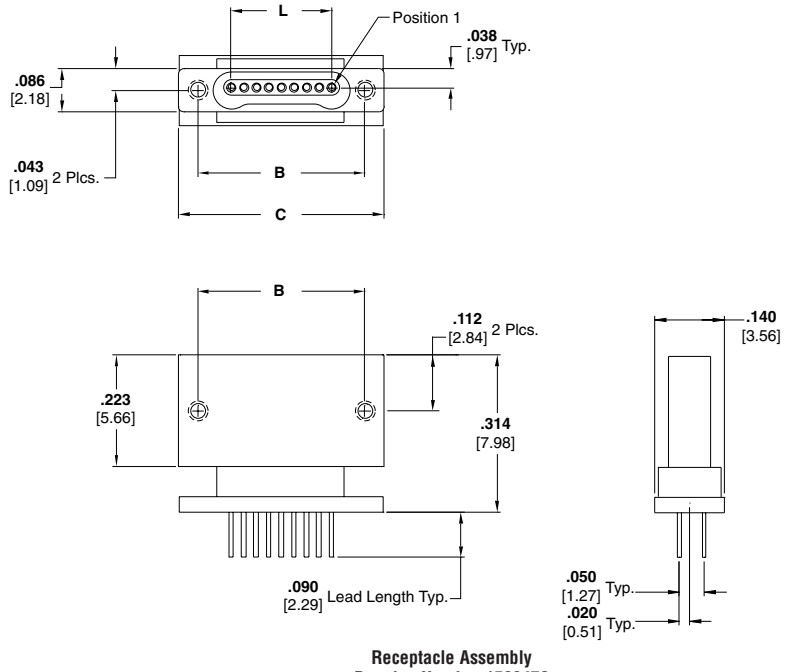
Receptacle

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]

Catalog 1308638
Revised 8-05

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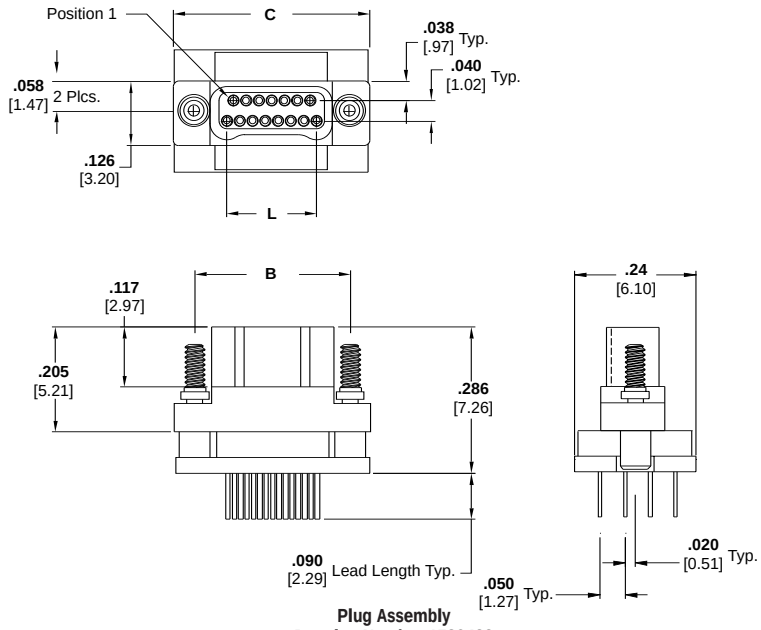
Japan: 81-44-844-8013
UK: 44-141-810-8967

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

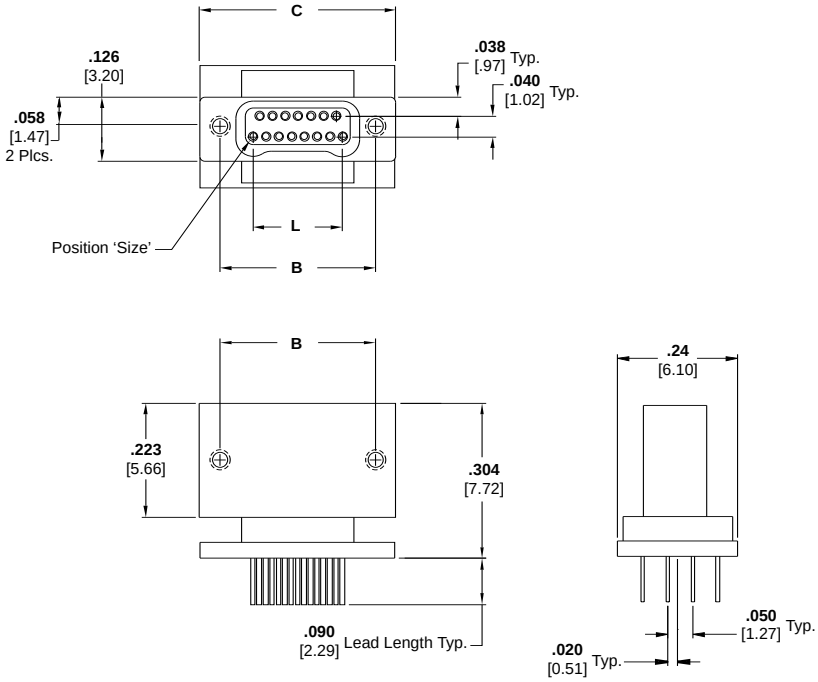
Receptacle

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



Plug Assembly
Drawing Number 1589482



Receptacle Assembly
Drawing Number 1589488

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]

Catalog 1308638
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Japan: 81-44-844-8013
UK: 44-141-810-8967

Part Numbering Guideline for Surface Mount and Thru-Hole Connectors

DUALOBE Connectors - Surface Mount and Thru Hole Terminations

S X X XXX XX(X) X X

Class
- **S** Dualobe

Rows
- **S** 1 Row
- **T** 2 Row

Type
- **L** LCP (Plastic)
- **M** Metal (Al, Ni Plate)

Positions
- **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)

Configurations
- **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

Mounting Hardware
- **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

Threads/Jackscrew

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

Catalog 1308638
Revised 8-05

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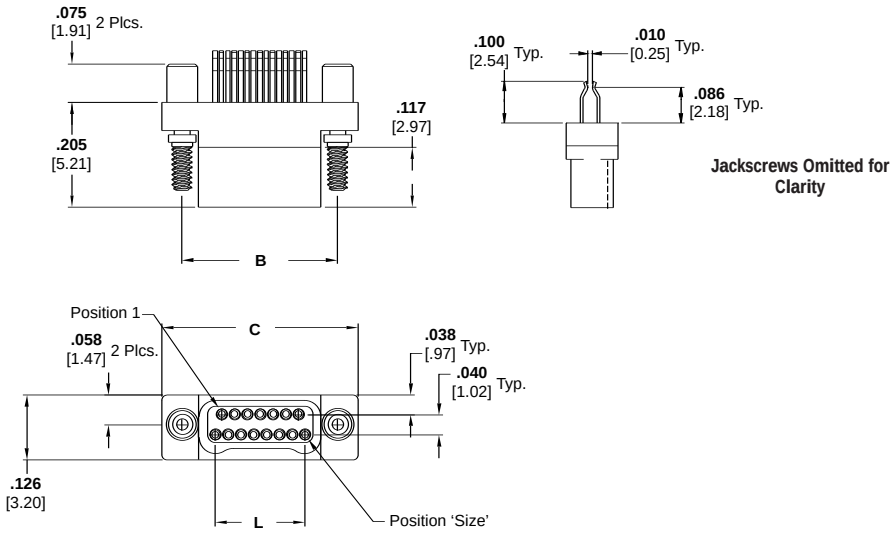
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

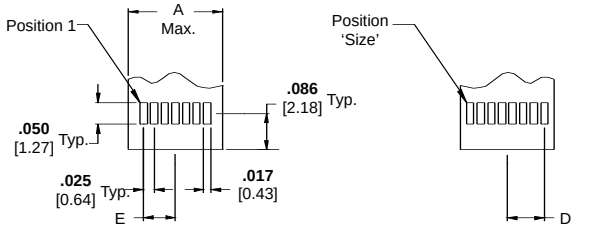
Flex Termination “Duckbill” Connectors — Two Row

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]

Catalog 1308638
Revised 8-05

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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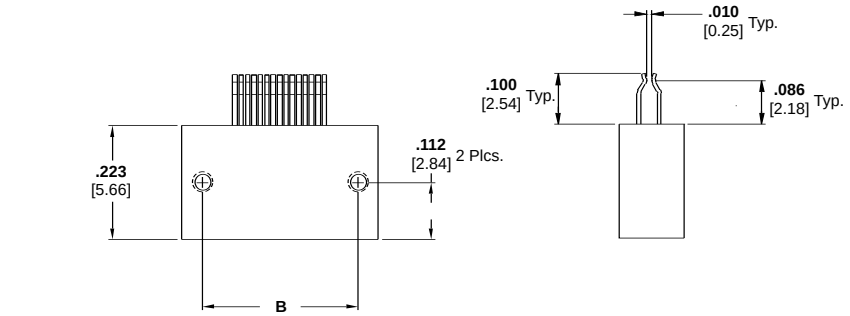
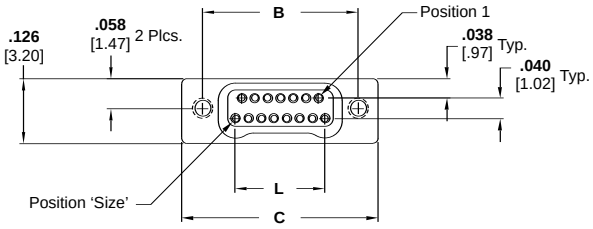
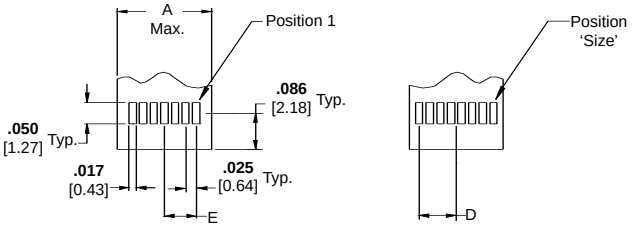
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Flex Termination "Duckbill" Connectors — Two Row (Continued)





Receptacle Assembly
Drawing Number 1589067



Flex Top View
Size 15 shown for reference

Flex Bottom View

Typical Flex Pad Layout

Part Numbering Guideline for Flex Termination "Duckbill" Connectors

DUALOBE Connectors - "Duckbill" Termination

S T X XXX 11378 XX X

Class
S Dualobe

Rows
T 2 Row

Type
L LCP (Plastic)
M Metal (Al, Ni Plate)

Positions
009 9 Position
015 15 Position
025 25 Position
037 37 Position
051 51 Position
065 65 Position

Termination Code
11378 "Duckbill" Termination

Configuration
PC Plug
SC Receptacle

Threads/Jackscrew

Threads (Receptacles Only)	Jackscrews (Plugs Only)
N Thread for 1.0 mm Jackscrews	**M** 1.0 mm Non Captive Jackscrews
Q Thread for 1.2 mm Jackscrews	**N** 1.0 mm Captive Jackscrews
	Q 1.2 mm Captive Jackscrews

Catalog 1308638
Revised 7-05

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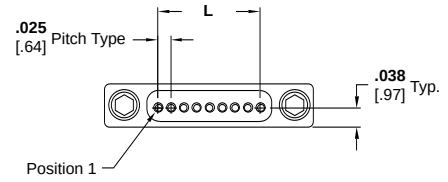
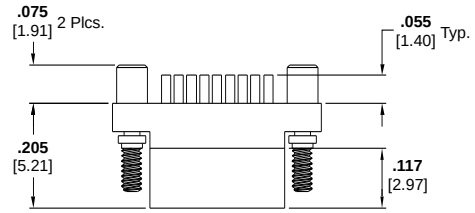
Japan: 81-44-844-8013
UK: 44-141-810-8967

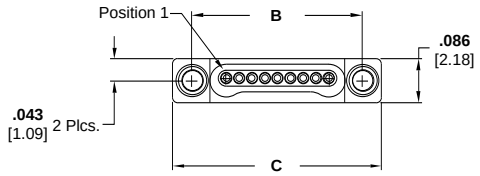
Solder Cup Connectors — Single Row

Product Facts

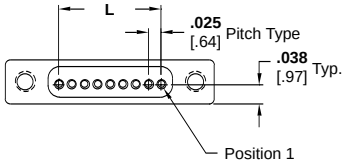
- **Plastic or Metal Shell**
- **Standard Sizes: 5, 9, 15, 25, 37 and 51**
- **Contact Tyco Electronics for custom configurations**

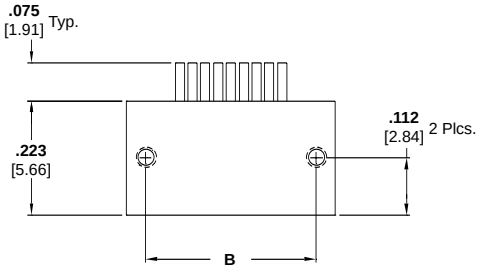


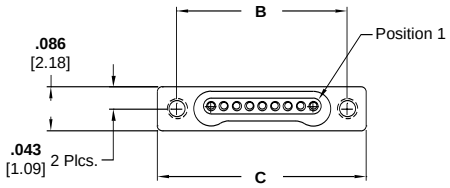




Plug Assembly
Drawing Number 1589051







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]

Catalog 1308638
Revised 8-05

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USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

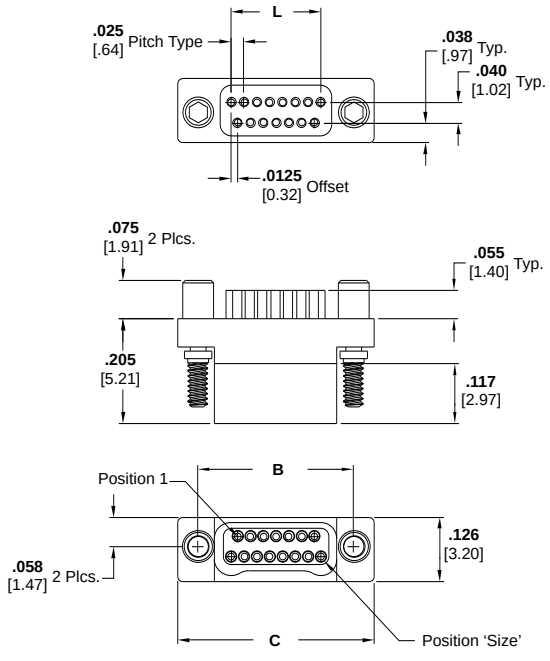
Solder Cup Connectors — Two Row

Plug

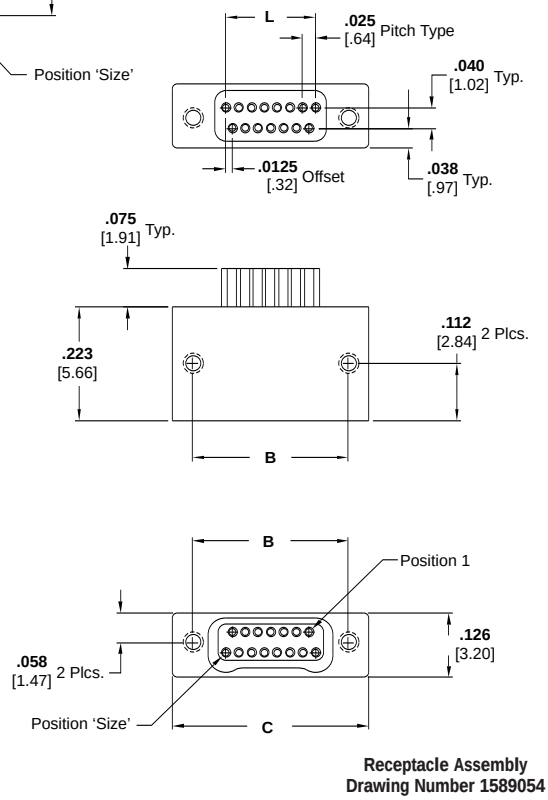
Receptacle

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]

Catalog 1308638
Revised 8-05

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UK: 44-141-810-8967

Part Numbering Guideline for Solder Cup Connectors

DUALOBE Connectors - Solder Cup Termination

S	X	X	XXX	11500	XX	X

Class
S Dualobe

Rows
S 1 Row
T 2 Row

Type
L LCP (Plastic)
M Metal (Al, Ni Plate)

Positions
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)

Termination Code
11500 Solder Cup Termination

Configuration
PC Plug
SC Receptacle

Threads/Jackscrew

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

Catalog 1308638
Revised 8-05

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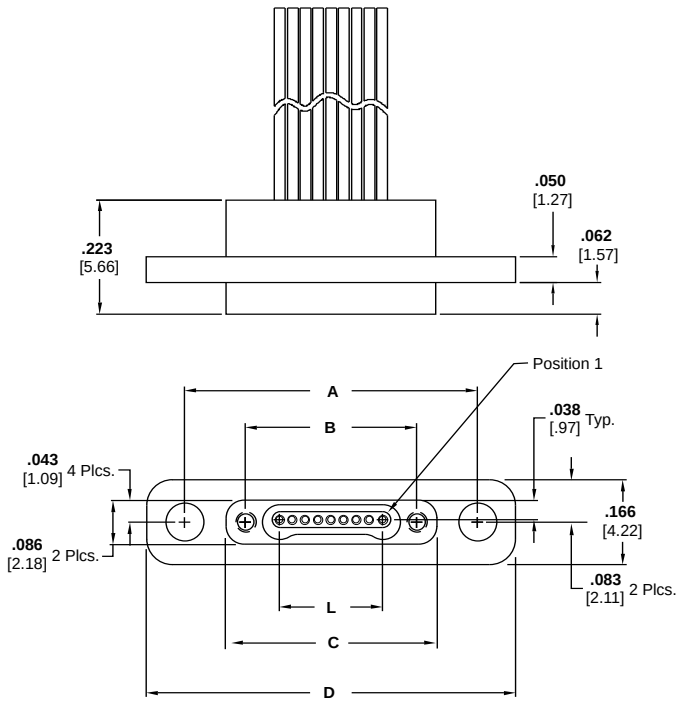
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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** [14.15]	**1.383** [35.13]	**1.460** [37.08]	**1.770** [44.96]	**1.250** [31.75]

Catalog 1308638
Revised 8-05

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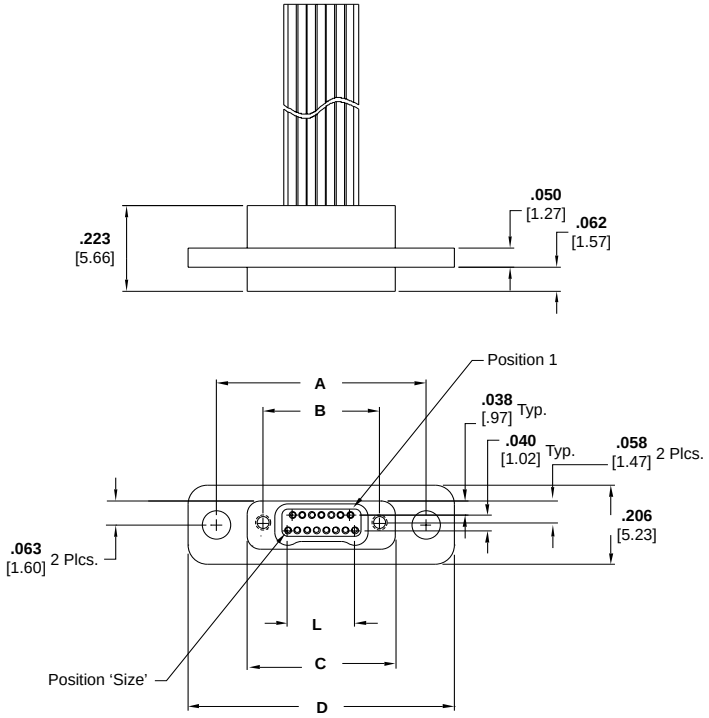
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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** [20.72]	**0.929** [23.60]	**1.010** [25.65]	**1.320** [33.53]	**0.800** [20.32]

Catalog 1308638
Revised 8-05

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Part Numbering Guideline for Panel Mount Connectors

DUALOBE Connectors - Panel Mount

P X M XXX SC X XX XXX X

Class
P Panel Mount

Rows
S 1 Row
T 2 Row

Type
M Metal (Al, Ni Plate)

Positions
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)

Configuration
SC Receptacle

Conductor Size/Strands
0 28 AWG Solid
1 30 AWG Solid
2 30 AWG 7 Strand
3 32 AWG 7 Strand
4 34 AWG 7 Strand

Conductor Type
DX White Teflon
DY White PTFE per M16878/6
DC Color Coded Teflon
DM Color Coded Teflon per MIL-STD-681
DT White Tefzel per M22759/33
GX Teflon Ribbon Cable

Conductor Length
XXX Three numbers only, length is in inches (i.e. 012 = twelve inches)
CXX A “C” follwed by two numbers, length is in centimeters (i.e. C06 = 6 centimet
MXX An “M” followed by two numbers, length is in meters (i.e. M02 = 2 meters)

Jackscrew Threads
Threads
N Thread for 1.0 mm Jackscrews
Q Thread for 1.2 mm Jackscrews

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Part Number Index Cross Reference

Nanonics Part Number	Tyco Part Number
Wired Connectors	
SSL005PC0DC006N	0-1589455-2
SSL005PC0DC012N	0-1589455-3
SSL005PC0DX012M	7-1589456-3
SSL005PC2DC002N	2-1589827-7
SSL005PC2DC004	0-1589455-4
SSL005PC2DC006	0-1589455-5
SSL005PC2DC006N	0-1589455-6
SSL005PC2DC012N	6-1589456-4
SSL005PC2DX006N	0-1589455-7
SSL005SC0DC006N	0-1589457-1
SSL005SC2DC006N	0-1589457-2
SSL005SC2DC012N	7-1589457-6
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SSL009PC0DMM03N	0-1589455-9
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SSL009PC2DC012Q	9-1589456-2
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SSL009PC2DCC03N	1-1589455-8
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SSL009SC2GX006	1-1589457-0
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SSM009PC2DC084N	8-1589456-8
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SSM025PC2DC012	1-1589456-7
SSM025PC2DC012N	1-1589456-8
SSM025PC2DC012Q	8-1589456-1

Catalog 1308638
Revised 8-05

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UK: 44-141-810-8967

Part Number Index Cross Reference (Continued)

Nanonics Part Number	Tyco Part Number
SSM025PC2DC018	1-1589456-9
SSM025PC2DC018N	2-1589456-0
SSM025PC2DC024N	9-1589456-1
SSM025PC2DC025N	2-1589456-1
SSM025PC2DC030N	2-1589456-2
SSM025PC2DC036N	2-1589456-3
SSM025PC2DCC30N	2-1589456-4
SSM025PC2DCC50N	1-1589827-5
SSM025PC2DM018Q	9-1589456-9
SSM025PC2DM024N	8-1589456-3
SSM025PC2DT012N	1-1589827-8
SSM025PC2DX006N	2-1589456-5
SSM025PC2DX012N	2-1589456-6
SSM025PC2DX018N	2-1589456-7
SSM025PC2DX024N	2-1589456-8
SSM025PC2GX006	2-1589456-9
SSM025PC2GX018N	3-1589456-0
SSM025PC3DY006N	3-1589456-1
SSM025PC4DX015N	7-1589456-7
SSM025SC0DC024N	0-1589901-8
SSM025SC0DC036N	7-1589457-9
SSM025SC2DC006N	8-1589457-6
SSM025SC2DC012N	5-1589457-6
SSM025SC2DC018	5-1589457-7
SSM025SC2DC024N	5-1589457-9
SSM025SC2DT012N	0-1589901-1
SSM025SC2DX006N	6-1589457-0
SSM025SC2DX018N	6-1589457-1
SSM025SC2DX024HN	6-1589457-3
SSM025SC2DX024N	8-1589457-1
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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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UK: 44-141-810-8967

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JTM065PR2DX004N	0-1589676-8
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JTM065PR2GX001N	0-1589676-9
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Surface Mount

Nanonics Part Number	Tyco Part Number
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SSL009B2H	0-1589700-2
SSL009L2AN	0-1589462-7
SSL009L2AQ	0-1589462-8
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SSL009L43KN	0-1589464-1
SSL009L4CN	0-1589463-2
SSL009L4KN	0-1589463-3
SSL015L2AN	1-1589462-0
SSL015L2AQ	1-1589462-1
SSL015L2CN	1-1589462-2
SSL015L2H	1-1589462-3
SSL015L2HN	1-1589462-4
SSL015L4N	0-1589463-4
SSL015L4PQ	2-1589463-6
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SSL025L23N	1-1589462-5
SSL025L2AN	1-1589462-6
SSL025L2HN	1-1589462-7
SSL025L42	0-1589463-5
SSL037B2H	0-1589700-3
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SSM015H5	0-1589819-1
SSM015L2AN	2-1589462-8
SSM015L2AQ	2-1589462-9

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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SSM015L2CN	3-1589462-0
SSM015L2HN	3-1589462-1
SSM015L2N	4-1589462-7
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STM037L2TQ	9-1589483-5
STM037L42AQ	9-1589484-7
STM037L42HN	5-1589484-2

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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STM051B4N	2-1589485-2
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Part Number Index Cross Reference (Continued)

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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.

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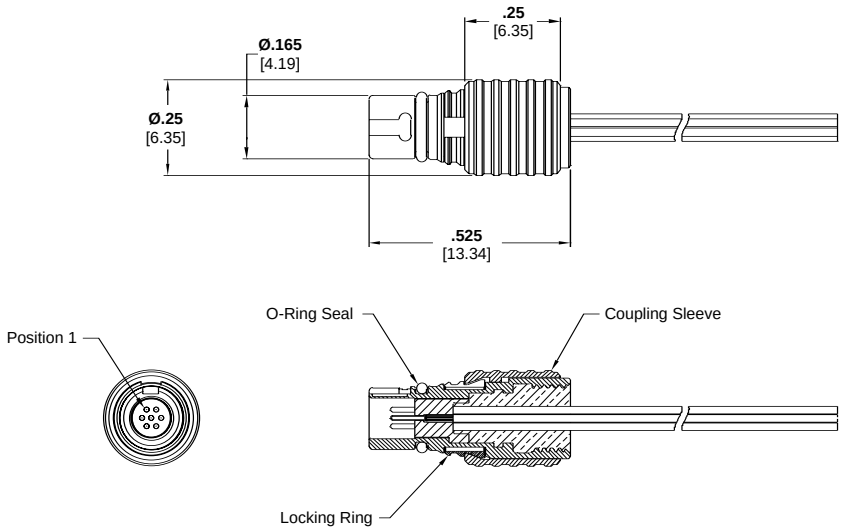
UK: 44-141-810-8967

Quick Disconnect — Plug Assemblies

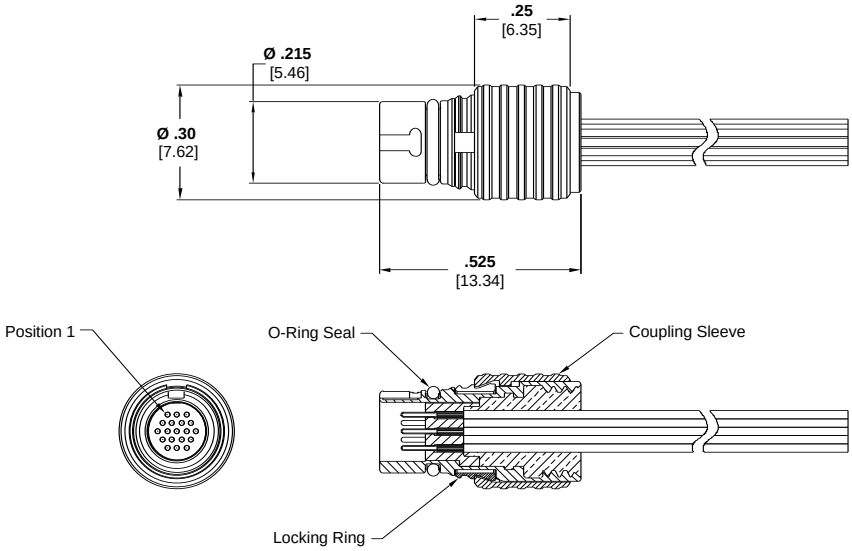
19 Position

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

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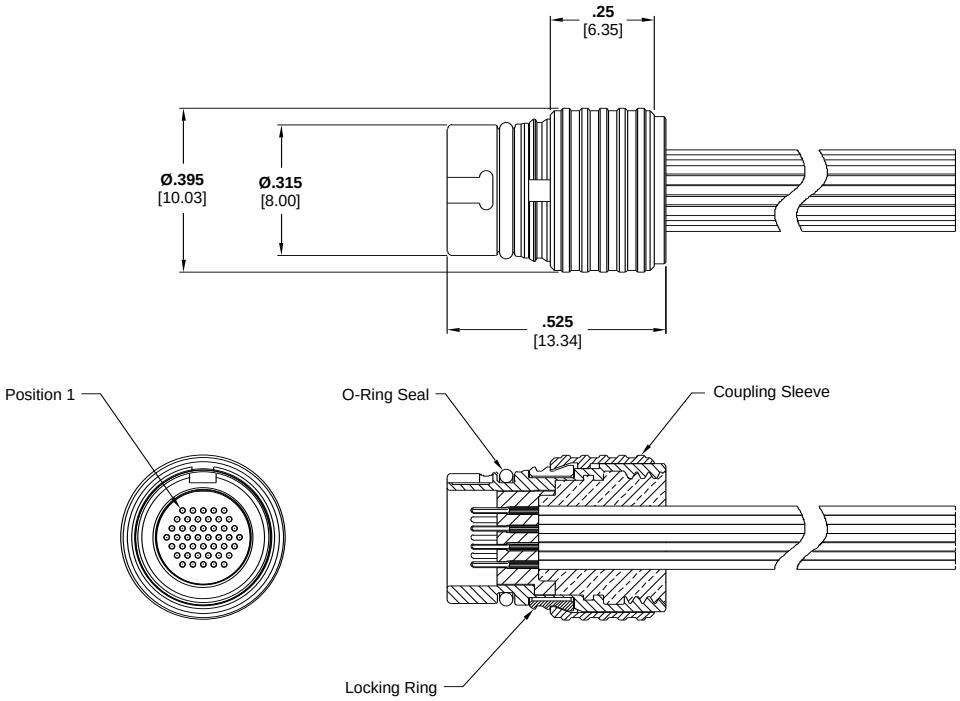
Quick Disconnect — Plug Assemblies (Continued)



44 Position
Drawing Number 1589059

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Revised 8-05

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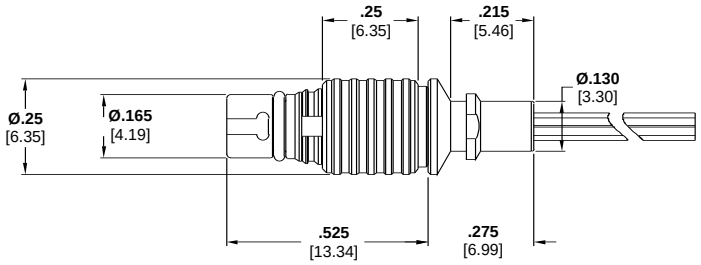
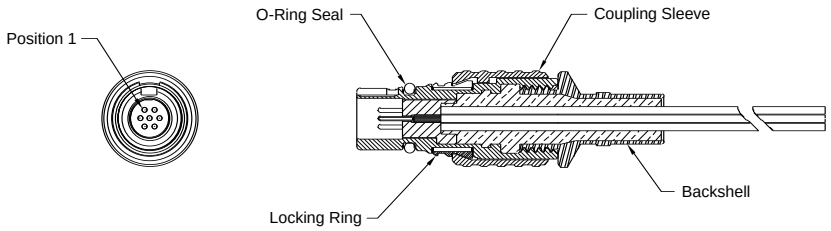
Quick Disconnect — Plug Assemblies with Backshells

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
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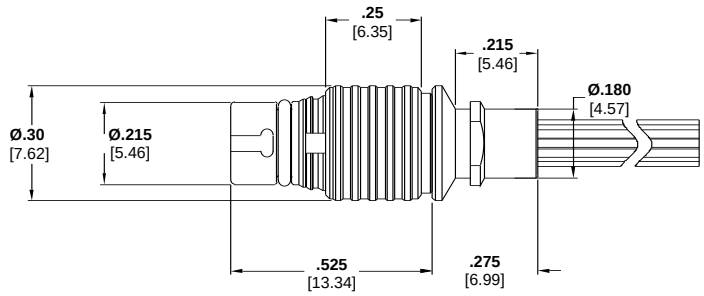

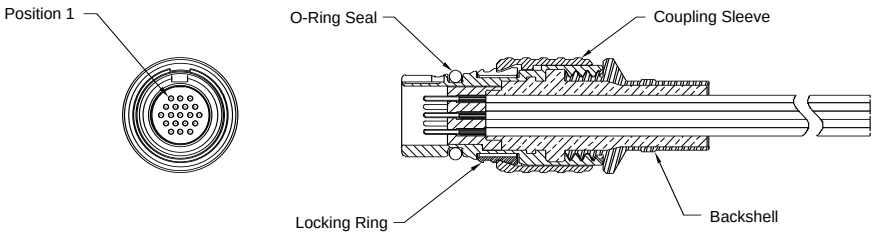

19 Position
Drawing Number 1589692

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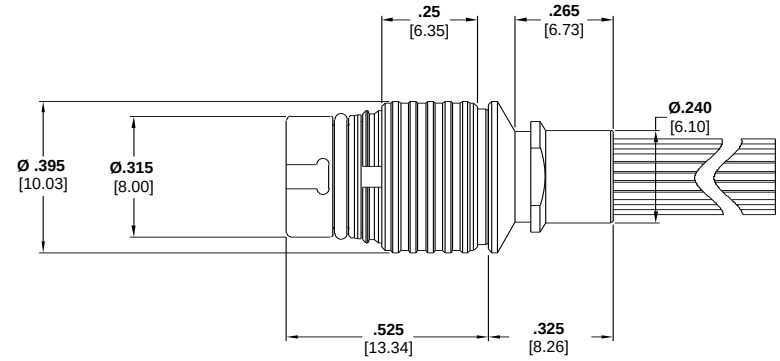
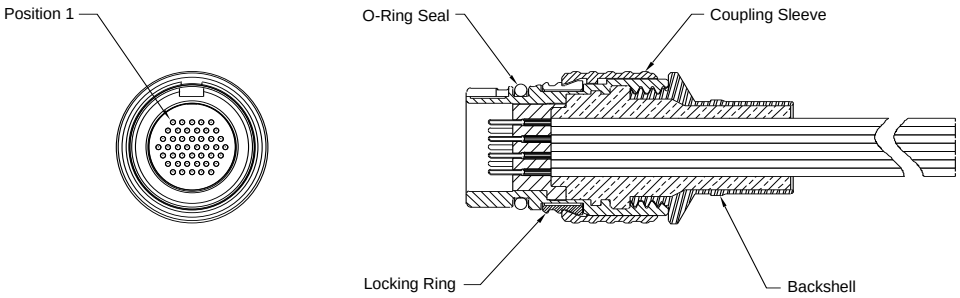
Quick Disconnect — Plug Assemblies with Backshells (Continued)





44 Position
Drawing Number 1589693

Catalog 1308638
Revised 8-05

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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C. America: 52-55-5-729-0425

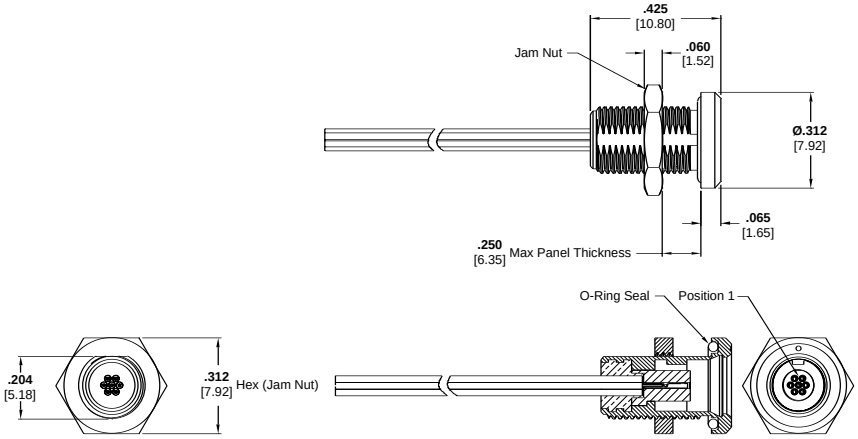
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Quick Disconnect — Receptacle Assemblies, Flush Mount

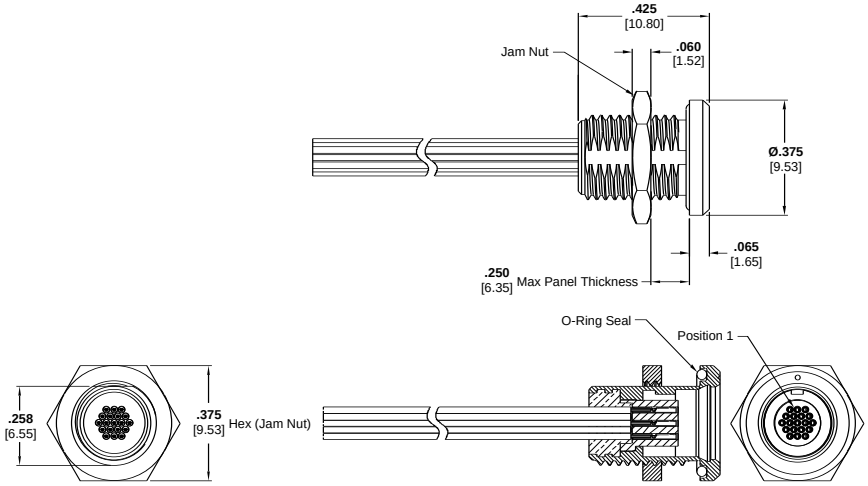
19 Position

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

Catalog 1308638
Revised 8-05

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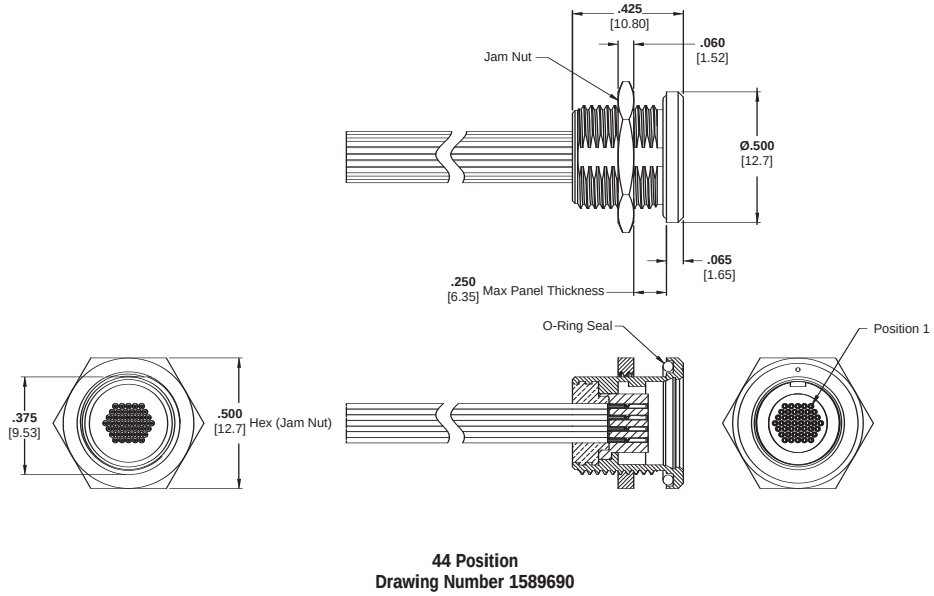
UK: 44-141-810-8967

Quick Disconnect — Receptacle Assemblies, Flush Mount (Continued)



44 Position
Drawing Number 1589690

Catalog 1308638
Revised 8-05

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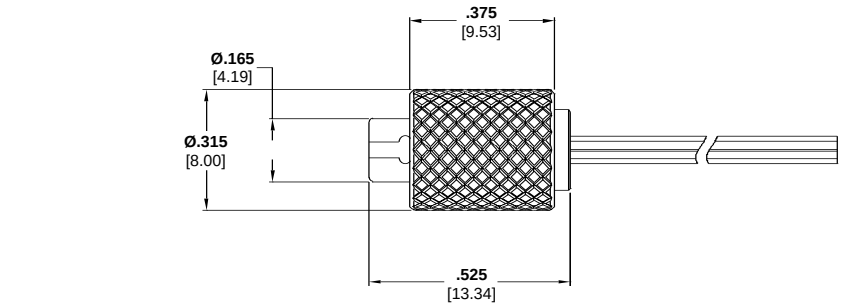
Japan: 81-44-844-8013
UK: 44-141-810-8967

Threaded Coupling — Plug Assemblies

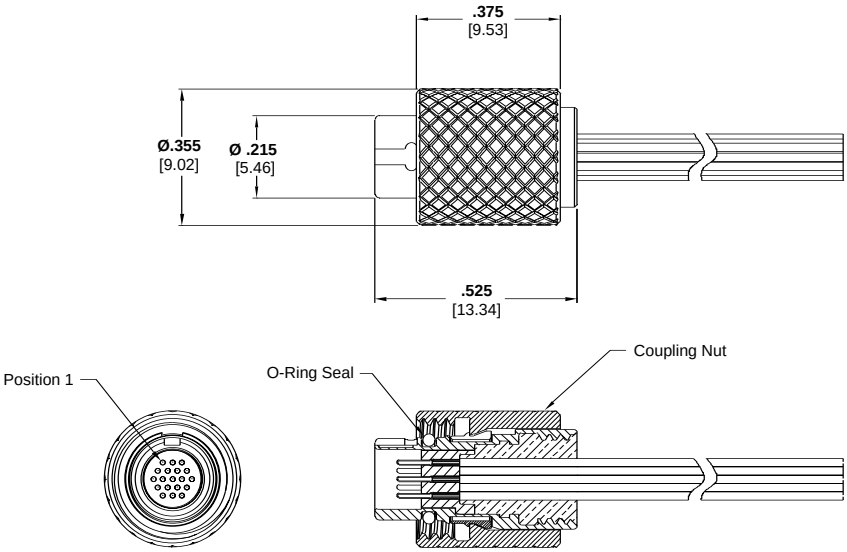
19 Position

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

Catalog 1308638
Revised 8-05

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Hong Kong: 852-2735-1628
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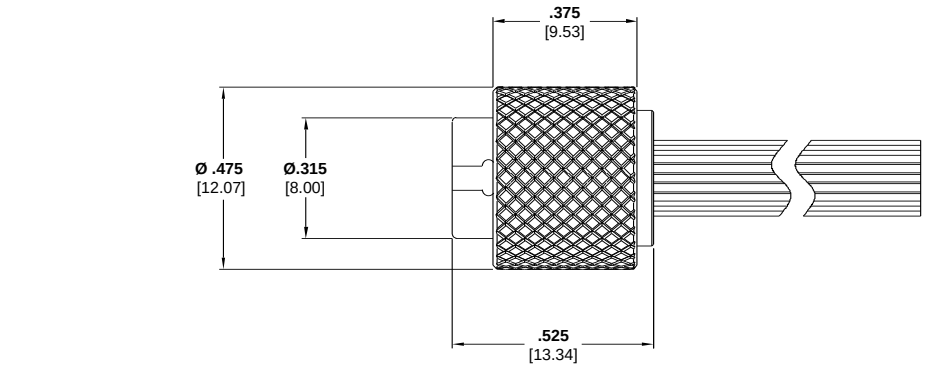
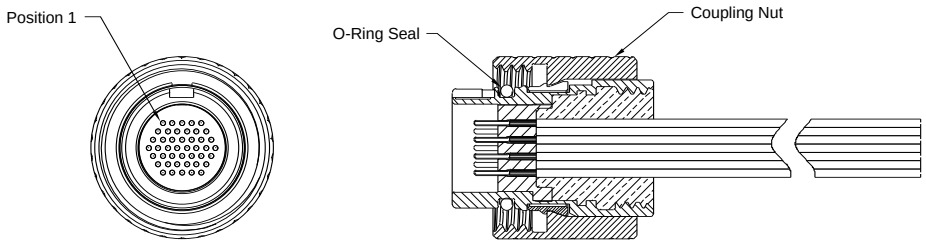
UK: 44-141-810-8967

Threaded Coupling — Plug Assemblies (Continued)





44 Position
Drawing Number 1589065

Catalog 1308638
Revised 8-05

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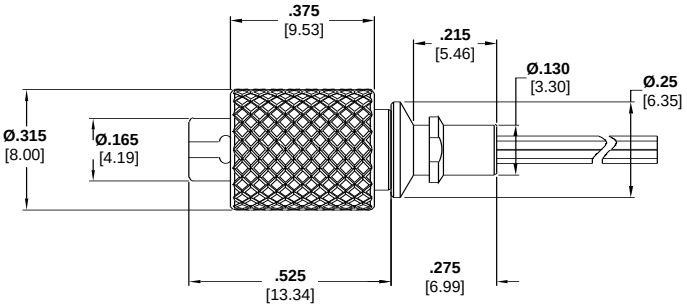
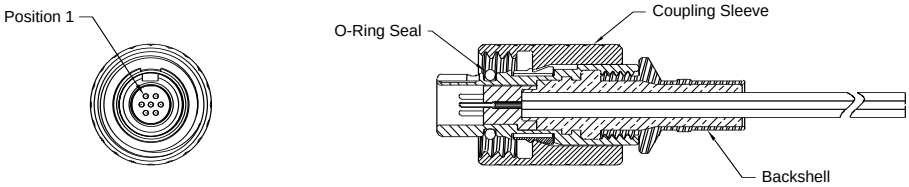
Japan: 81-44-844-8013
UK: 44-141-810-8967

Threaded Coupling — Plug Assemblies with Backshells

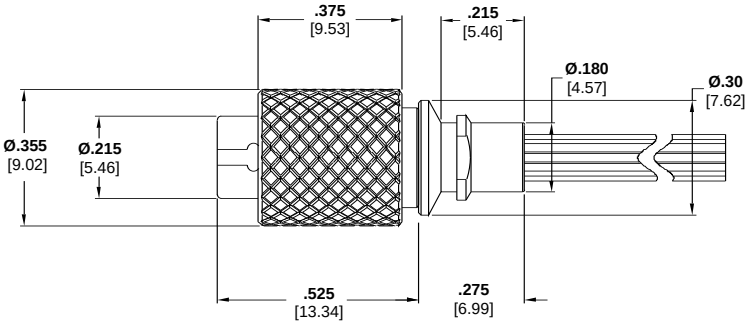
Product Facts

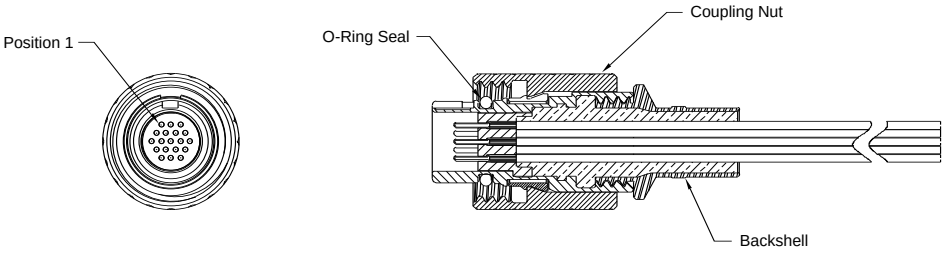
- **Metal Shell**
- **Positions: 7, 19 and 44**
- **Environmental O-ring seal**
- **Factory wired to your specifications**
- **Backshell installed at factory**
- **Contact Tyco Electronics for custom configurations**





7 Position
Drawing Number 1589686





19 Position
Drawing Number 1589688

Catalog 1308638
Revised 8-05

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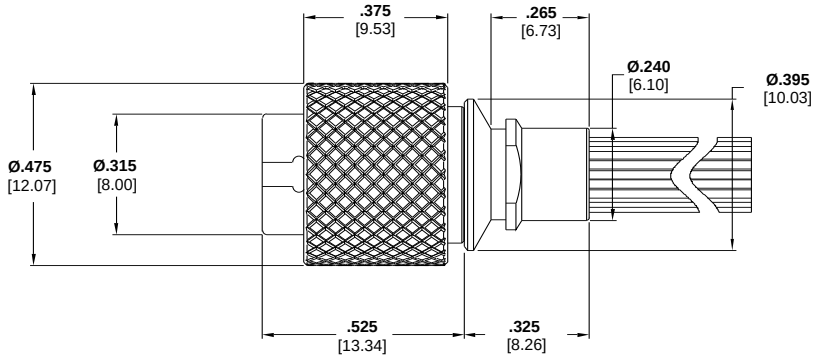
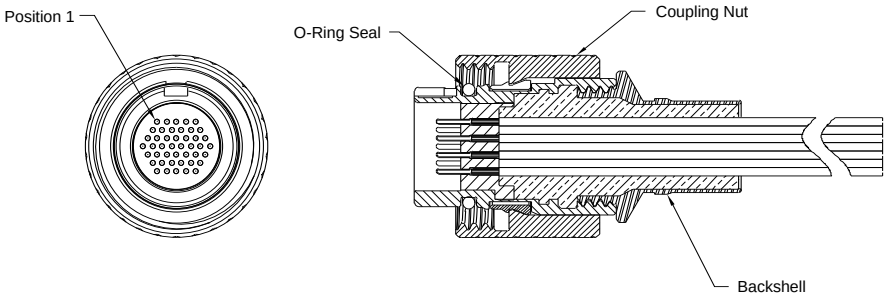
UK: 44-141-810-8967

Threaded Coupling — Plug Assemblies with Backshells (Continued)





44 Position
Drawing Number 1589694

Catalog 1308638
Revised 8-05

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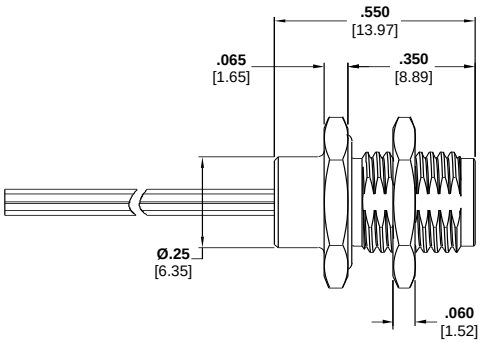
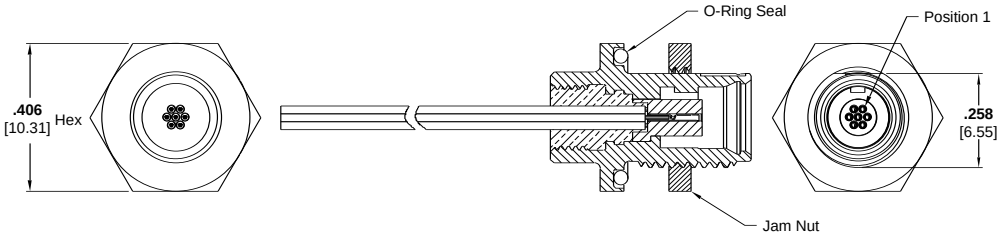
Threaded Coupling/Quick Disconnect — Receptacle Assemblies, Panel Mount

19 Position

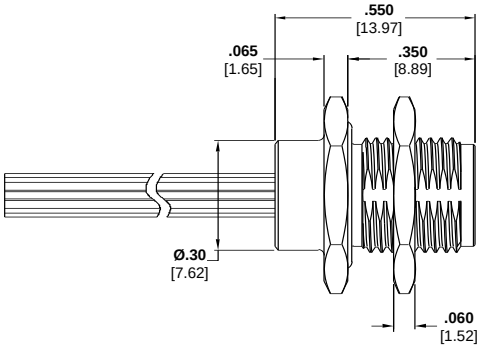


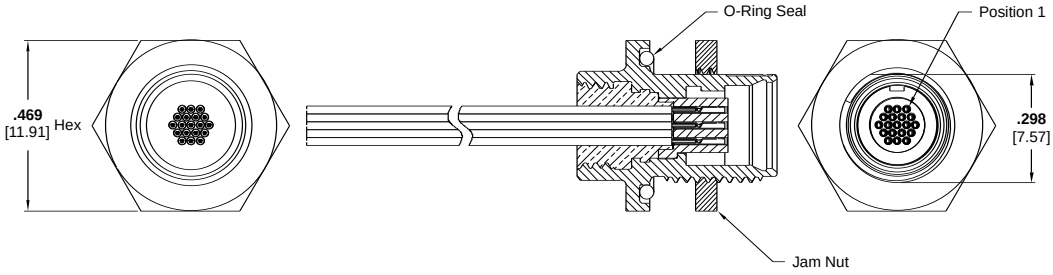
Product Facts

- 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

Catalog 1308638
Revised 8-05

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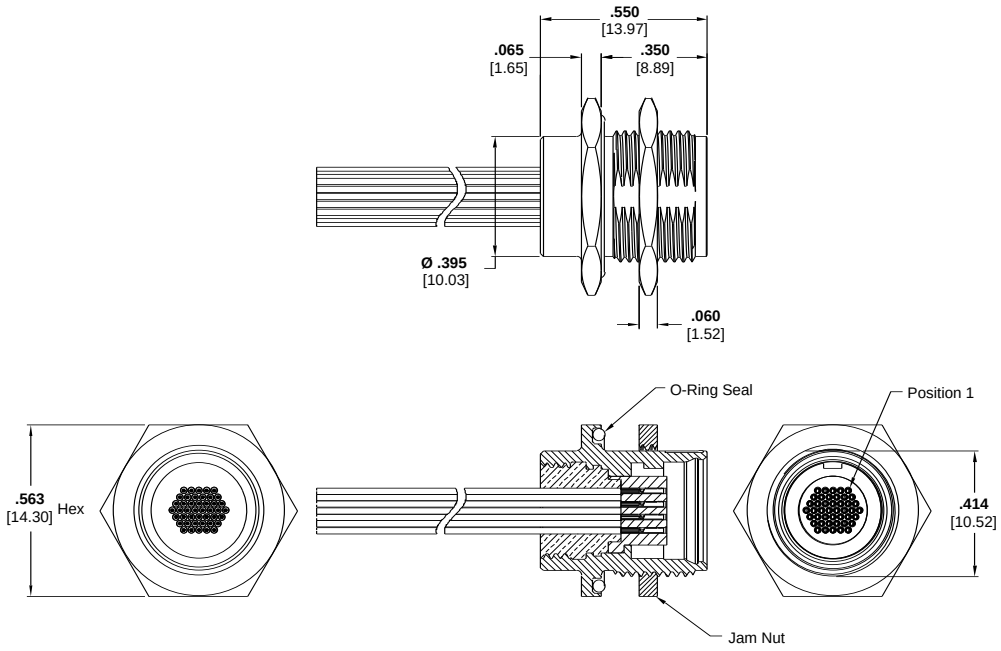
Threaded Coupling/Quick Disconnect — Receptacle Assemblies, Panel Mount (Continued)



44 Position
Drawing Number 1589062

Catalog 1308638
Revised 8-05

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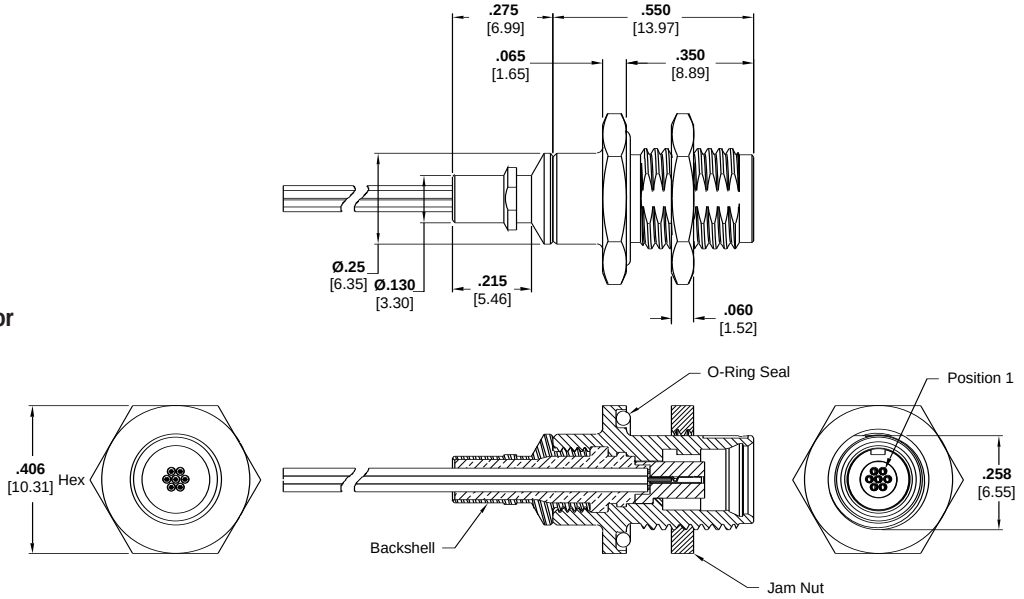
Japan: 81-44-844-8013
UK: 44-141-810-8967

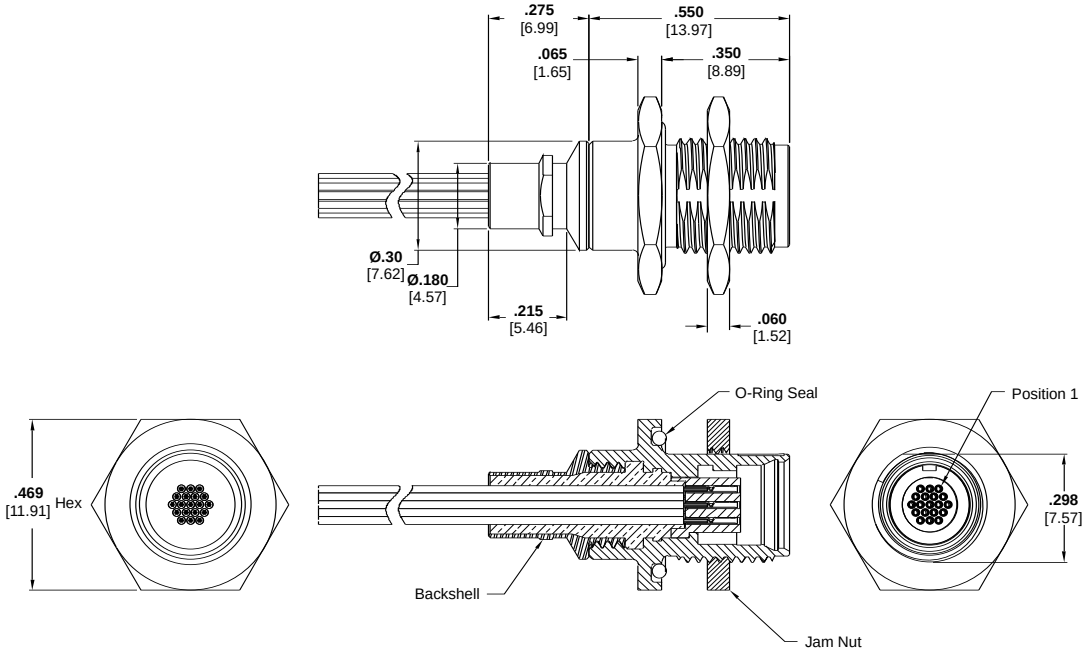
Threaded Coupling/Quick Disconnect — Panel Mount Recp. Assemblies w/Backshells

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

Catalog 1308638
Revised 8-05

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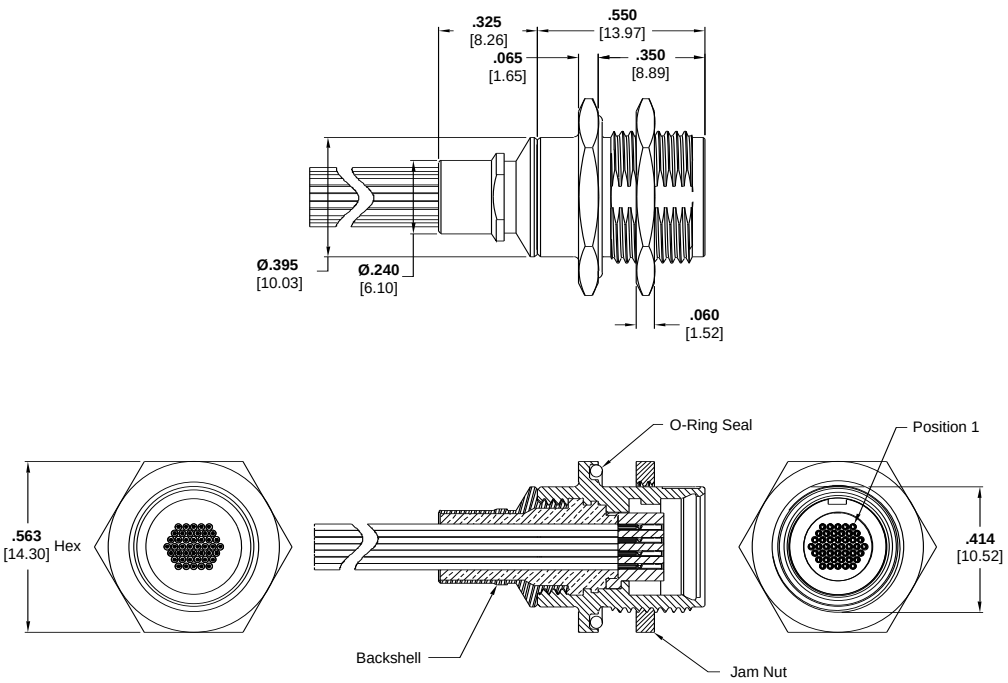
Threaded Coupling/Quick Disconnect — Panel Mount Recp. Assemblies w/Backshells (Continued)



Receptacle Assembly 44 Position
Drawing Number 1589695

Catalog 1308638
Revised 8-05

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Part Numbering Guideline for Environmentally Sealed Circular Connectors

Circular Connectors - Wire Terminations

XXX XXX XX X XX XXX X(X)

Class/Type

QCM Quick Disconnect, Circular, Metal
TCM Threaded Coupling, Circular, Metal
(TCM leadoff for plug only)

Positions

007 7 Position
019 19 Position
044 44 Position

Configuration

PC Plug
SC Receptacle

Conductor Size/Strands

0 28 AWG Solid
1 30 AWG Solid
2 30 AWG 7 Strand
3 32 AWG 7 Strand
4 34 AWG 7 Strand

Conductor Type

DX White Teflon
DY White PTFE per M16878/6
DC Color Coded Teflon
DM Color Coded Teflon per MIL-STD-681
DT White Tefzel per M22759/33

Conductor Length

XXX Three numbers only, length is in inches (i.e. 012 = twelve inches)
CXX A “C” follwed 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)

Circular Mounting/Features

Mounting (Receptacles Only)	Features (Optional)
P Panel Mount	**B** Backshell (cannot be used with flush mount)
F Flush Mount	

Catalog 1308638
Revised 8-05

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Part Number Index Cross Reference

Nanonics Part Number	Tyco Part Number
Quick Disconnect	
QCM007PC2DC003	0-1589055-1
QCM007PC2DC006	0-1589055-2
QCM007PC2DC006B	0-1589691-5
QCM007PC2DC012	0-1589055-3
QCM007PC2DC012B	0-1589691-1
QCM007PC2DC018B	0-1589691-2
QCM007PC2DC020	0-1589055-6
QCM007PC2DC020B	0-1589691-9
QCM007PC2DC028	1-1589055-3
QCM007PC2DC036B	0-1589691-3
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QCM007PC2DC072	0-1589055-9
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QCM007PC2DCC50B	1-1589691-0
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QCM007PC2DCM02	1-1589055-8
QCM007PC2DCM03	1-1589055-5
QCM007PC2DMC150	1-1589055-6
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QCM007PC2DMC46	1-1589055-1
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QCM007SC2DC003P	0-1589060-1
QCM007SC2DC004P	0-1589060-2
QCM007SC2DC006F	0-1589056-1
QCM007SC2DC006P	0-1589060-3
QCM007SC2DC012P	0-1589060-4
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QCM044PC2DC012	0-1589059-4
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QCM044PC2DC020	0-1589059-6
QCM044PC2DC030	0-1589059-7
QCM044PC2DC036	1-1589059-1
QCM044PC2DC040	1-1589059-2
QCM044PC2DC050	1-1589059-0
QCM044PC2DC060B	0-1589693-3
QCM044PC2DC120B	0-1589693-4
QCM044PC2DC180B	0-1589693-5
QCM044SC0DM036P	1-1589062-3
QCM044SC0DM048P	1-1589062-4
QCM044SC0DM060P	1-1589062-5
QCM044SC2DC003P	0-1589062-1
QCM044SC2DC006F	0-1589690-3
QCM044SC2DC006P	0-1589062-2
QCM044SC2DC012F	0-1589690-4
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QCM044SC2DC018F	0-1589690-5
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QCM044SC2DC019PB	0-1589695-1
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QCM044SC2DM036P	0-1589062-9
QCM044SC2DM120P	1-1589062-0
QCM044SC2DMC16P	0-1589062-6
QCM044SC2DMC46P	0-1589062-7
QCM044SC2DMC50P	0-1589062-7
QCM044SC3DC012F	0-1589690-7
Threaded Coupling	
TCM007PC2DC003	0-1589063-1
TCM007PC2DC006	0-1589063-2
TCM007PC2DC006B	0-1589686-2
TCM007PC2DC012	0-1589063-4
TCM007PC2DC012B	0-1589686-3
TCM007PC2DC018B	0-1589686-4
TCM007PC2DC020	0-1589063-9
TCM007PC2DC036	0-1589063-7
TCM007PC2DCM02	1-1589063-0
TCM007PC2DM003	0-1589063-8
TCM007PC2DM006B	0-1589686-1
TCM007PC2DYC10B	0-1589686-5
TCM007PC2DYM01B	0-1589686-6
TCM019PC0DC036	1-1589064-5
TCM019PC0DCC10	0-1589064-1
TCM019PC0DXC10	0-1589064-2
TCM019PC2DC003	0-1589064-3
TCM019PC2DC006	0-1589064-4
TCM019PC2DC006B	0-1589688-2
TCM019PC2DC012	0-1589064-6
TCM019PC2DC012B	0-1589688-3
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TCM019PC2DC024	0-1589064-8
TCM019PC2DC036	0-1589064-9
TCM019PC2DC060B	0-1589688-4
TCM019PC2DC066	1-1589064-1
TCM019PC2DCC30	1-1589064-2
TCM019PC2DM006B	0-1589688-1
TCM019PC2DM024	1-1589064-6
TCM019PC2DM036	1-1589064-3
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TCM044PC2DC018B	0-1589694-3
TCM044PC2DC019B	0-1589694-4
TCM044PC2DC020	1-1589065-2
TCM044PC2DC020B	0-1589694-8
TCM044PC2DC024	1-1589065-7
TCM044PC2DC036	0-1589065-8
TCM044PC2DC036B	0-1589694-5
TCM044PC2DC202B	0-1589694-7
TCM044PC2DM036	1-1589065-1
TCM044PC2DM120	1-1589065-6
TCM044PC2DM120B	0-1589694-6
TCM044PC2DMC46	1-1589065-0

Catalog 1308638
Revised 8-05

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Engineering Notes

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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 coax 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

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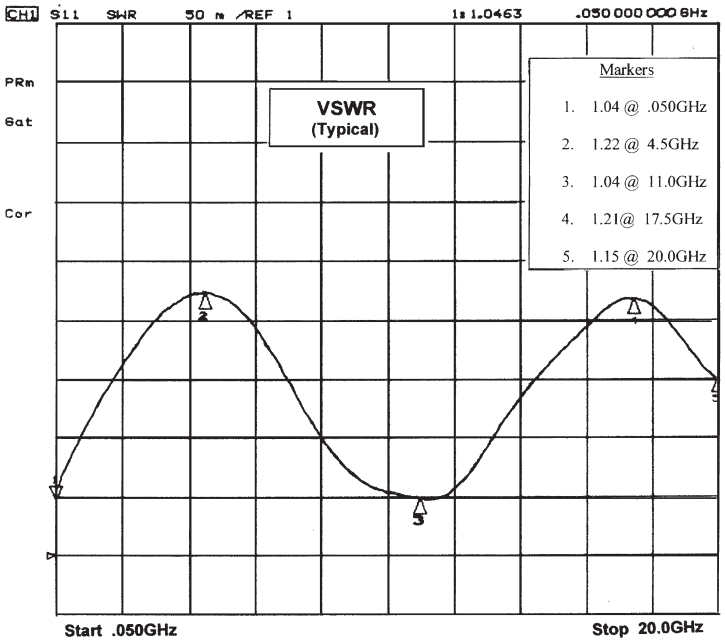
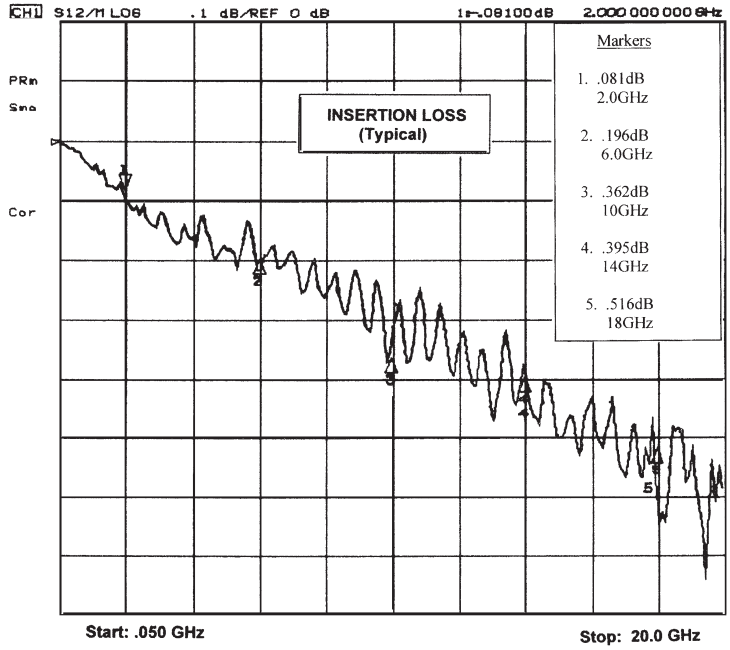
UK: 44-141-810-8967

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.





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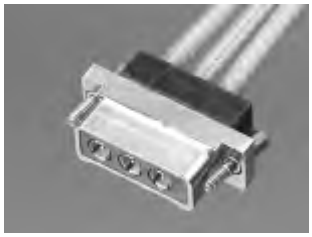
50 Ohm Coax Connectors

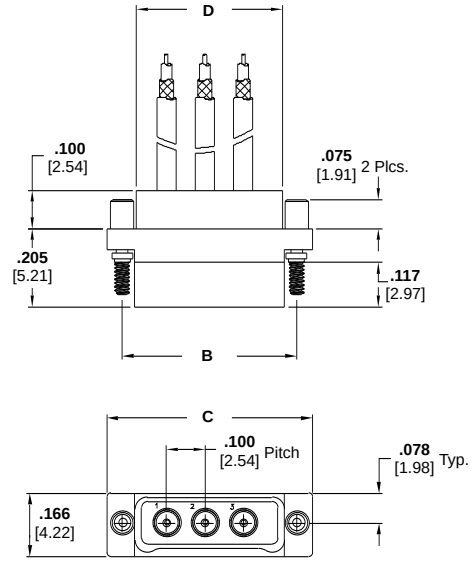


Plug

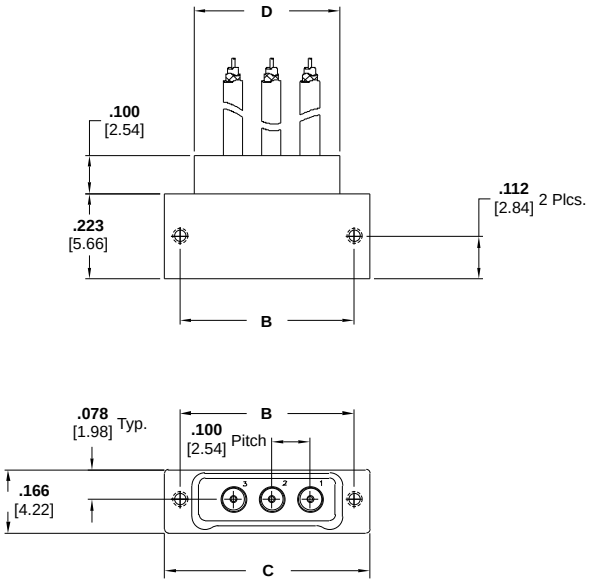
Receptacle

Product Facts

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



Plug Assembly
Drawing Number 1589070



Receptacle Assembly
Drawing Number 1589071

Size	Dimensions			
	B	C	D	No. Coax
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

Catalog 1308638
Revised 8-05

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Part Numbering Guideline for 50 Ohm Coax Connectors

Coax Only Connectors - Wire Terminations

CX XXX XX 2 RG XXX X

Class/Type

CX Coax, 50 Ohm

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

Conductor Size

2 30 AWG

Conductor Type

RG RG 178 Coaxial Cable

Conductor Length

XXX Three numbers only, length is in inches (i.e. 012 = twelve inches)
CXX A “C” follwed 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)

Threads/Jackscrews

Threads (Receptacles Only)	Jackscrews (Plugs Only)
N Thread for 1.0 mm Jackscrews	**M** 1.0 mm Non Captive Jackscrews
Q Thread for 1.2 mm Jackscrews	**N** 1.0 mm Captive Jackscrews
	Q 1.2 mm Captive Jackscrews

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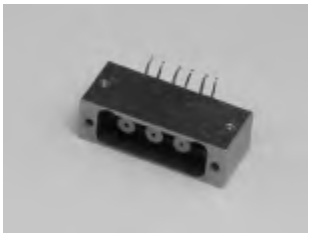
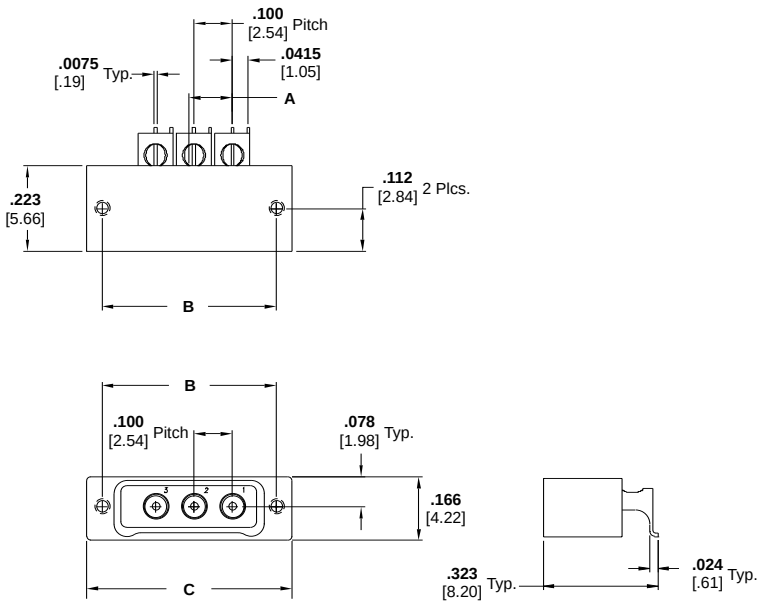
Horizontal SMT 50 Ohm Coax Connectors



Surface Mount

Product Facts

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



Receptacle Assembly
Drawing Number 1589072

Size	Dimensions			
	A	B	C	No. Coax
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

Catalog 1308638
Revised 8-05

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Part Numbering Guideline for Horizontal SMT 50 Ohm Coax Connectors

Coax Only Connectors - SMT Termination

CX XXX L2 XXX X

Class/Type
CX Coax, 50 ohm

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
L2 Receptacle, Horizontal SMT

Mounting Hardware
A 1.2 mm x .160”
H 1.0 mm x .160”

Jackscrew Threads
Threads
N Thread for 1.0 mm Jackscrews
Q Thread for 1.2 mm Jackscrews

Catalog 1308638
Revised 8-05

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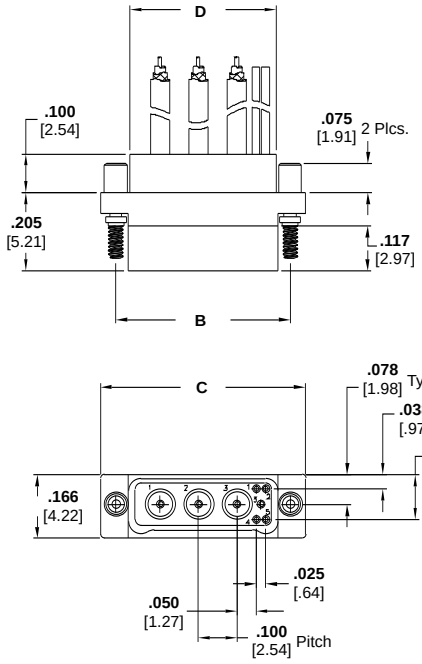
50 Ohm Coax with Mixed Signal Connectors

Plug

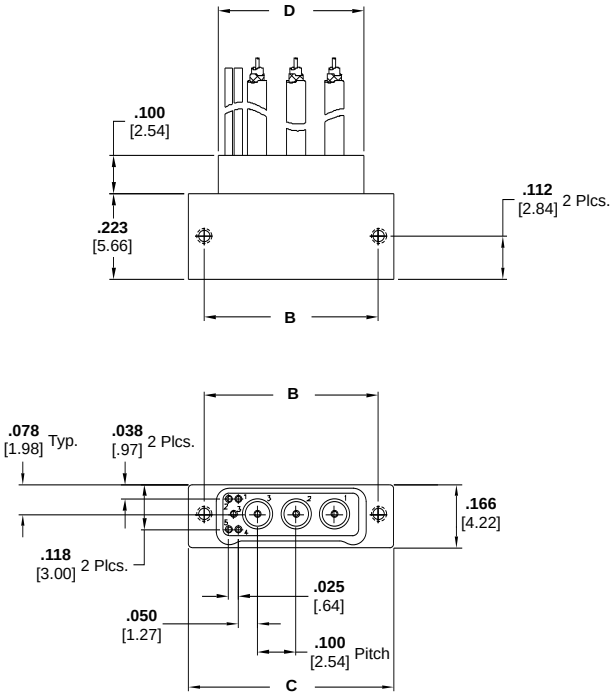
Receptacle

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			
	B	C	D	No. Coax
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

Catalog 1308638
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Part Numbering Guideline for 50 Ohm Coax with Mixed Signal Connectors

Coax w/ Mixed Signal Connectors - Wire Terminations

CX XXX XX 2 R X XXX X

Class/Type
- **CX** Coax, 50 ohm

Positions
- **015** 1 Position w/ 5 Signals
- **025** 2 Position w/ 5 Signals
- **035** 3 Position w/ 5 Signals
- **045** 4 Position w/ 5 Signals
- **055** 5 Position w/ 5 Signals
- **065** 6 Position w/ 5 Signals
- **075** 7 Position w/ 5 Signals
- **085** 8 Position w/ 5 Signals
- **095** 9 Position w/ 5 Signals

Configuration
- **PC** Plug
- **SC** Receptacle

Conductor Size
- **2** 30 AWG 7 Strand

Conductor Type (Coax)
- **R** RE-178 Coaxial Cable

Conductor Type (Signals)
- **C** Color Coded Teflon
- **X** White Teflon

Conductor Length
- **XXX** Three numbers only, length is in inches (i.e. 012 = twelve inches)
- **CXX** A “C” follwed 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)

Threads/Jackscrew

Threads (Receptacles Only)	Jackscrews (Plugs Only)
N Thread for 1.0 mm Jackscrews	**M** 1.0 mm Non Captive Jackscrews
Q Thread for 1.2 mm Jackscrews	**N** 1.0 mm Captive Jackscrews
	Q 1.2 mm Captive Jackscrews

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Part Number Index Cross Reference

Nanonics Part Number	Tyco Part Number
Coax Only	
CX010PC2RG006N	0-1589070-1
CX010PC2RG018N	0-1589070-2
CX010PC2RG048Q	2-1589070-8
CX010PC2RG072N	0-1589070-3
CX010PC2RGC10Q	2-1589070-1
CX010SC2RG048Q	2-1589071-3
CX020PC2RG018N	0-1589070-4
CX020PC2RG048N	2-1589070-5
CX020PC2RG060N	1-1589070-8
CX020SC2RG012N	2-1589071-0
CX020SC2RG018N	2-1589071-5
CX020SC2RG024N	0-1589071-8
CX020SC2RG024Q	2-1589071-8
CX020SC2RG060N	2-1589071-2
CX030PC2RG006N	0-1589070-5
CX030PC2RG012	0-1589070-6
CX030PC2RG012N	0-1589070-7
CX030PC2RG018N	0-1589070-8
CX030PC2RG020Q	0-1589070-9
CX030PC2RG048N	2-1589070-4
CX030PC2RG060N	2-1589070-6
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CX080SC2RG012Q	2-1589071-7
CX080SC2RG015N	1-1589071-7
CX080SC2RG024N	0-1589071-9
CX090PC2RG036N	1-1589070-2
CX090SC2RG036N	0-1589071-6

Nanonics Part Number	Tyco Part Number
Coax with Mixed Signals	
CX015PC2RC012	0-1589068-1
CX015PC2RC012N	0-1589068-5
CX015SC2RC012N	0-1589069-1
CX035PC2RC006N	0-1589068-2
CX035PC2RC018N	0-1589068-3
CX035SC2RC006N	0-1589069-2
CX035SC2RC018N	0-1589069-3
CX045PC2RC006N	0-1589068-4
CX045PC2RC036N	0-1589068-9
CX045PC2RC036Q	1-1589068-0
CX045SC2RC006N	0-1589069-4
CX045SC2RC006Q	0-1589069-7
CX055PC2RC006N	0-1589068-6
CX055SC2RC006N	0-1589069-5
CX095PC2RC006N	0-1589068-7
CX095PC2RC036N	0-1589068-8
CX095SC2RC006N	0-1589069-6

Nanonics Part Number	Tyco Part Number
Horizontal SMT Coax	
CX010L2AQ	1-1589072-3
CX010L2HN	0-1589072-1
CX020L2HN	1-1589072-2
CX030L23N	0-1589072-2
CX030L23Q	0-1589072-5
CX030L2HN	0-1589072-3
CX040L2AQ	1-1589072-0
CX040L2HN	1-1589072-6
CX050L23Q	0-1589072-6
CX050L2HN	0-1589072-9
CX060L2AQ	1-1589072-1
CX060L2HN	1-1589072-5
CX070L2AQ	1-1589072-4
CX080L2HN	0-1589072-4

Catalog 1308638
Revised 8-05

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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USA: 1-800-522-6752
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Engineering Notes

Catalog 1308638
Revised 8-05

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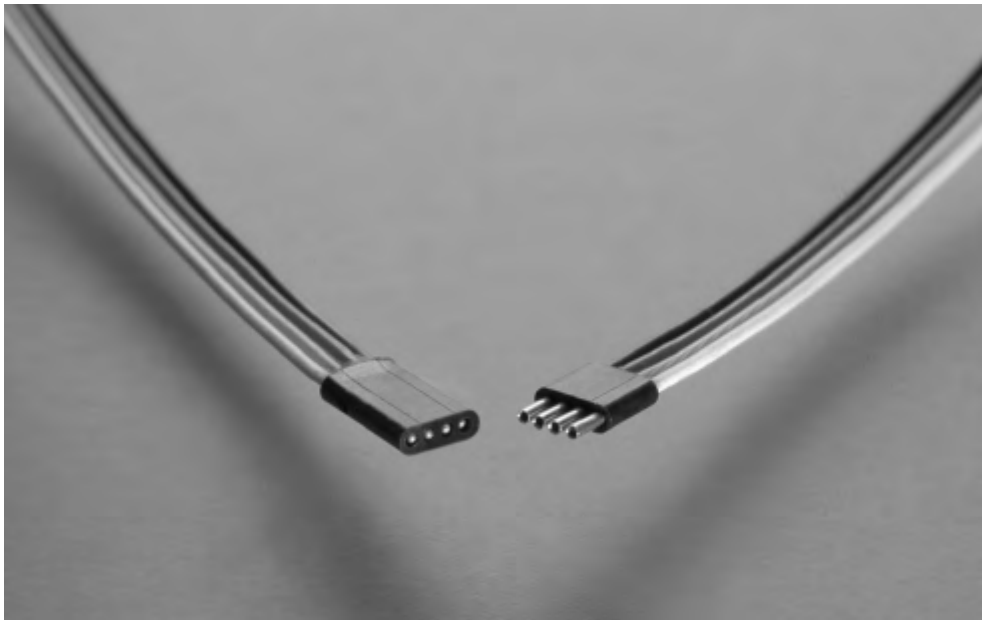
Strip Connectors

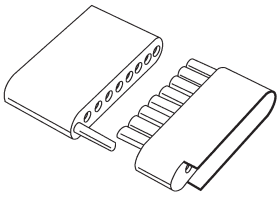


The Nanonics strip connectors are the smallest connectors in the Nanonics product line. They are molded from LCP and are ideal for applications where the height and weight of the connector is a serious design parameter. Just .040” in height, these connectors are well suited for low-profile applications.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

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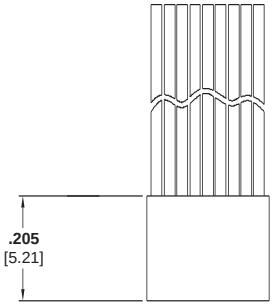
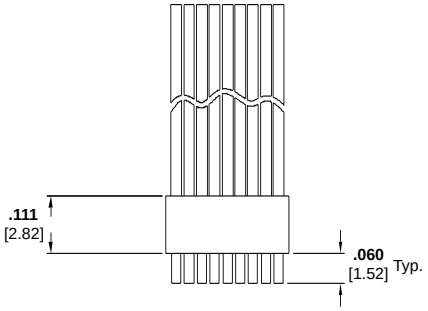
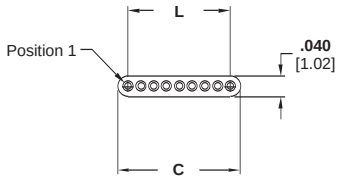
Wired Connectors — Unshrouded, Flying Leads

Product Facts

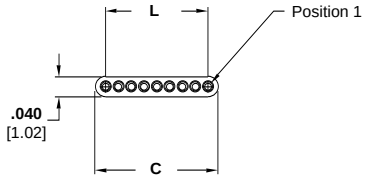
- **Plastic Shell**
- **Standard Sizes: 4, 9, 15, 25, 37 and 51**
- **Factory wired to your specifications**
- **Contact Tyco Electronics for custom configurations**







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]

Catalog 1308638
Revised 8-05

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UK: 44-141-810-8967

Part Numbering Guideline for Strip Wired Connectors

Strip Connectors - Wire Terminations

USS XXX XX X XX XXX X

Class/Row/Type

USS Unshrouded, 1 row, strip

Positions

004 4 Position
009 9 Position
015 15 Position
025 25 Position

Configuration

PC Plug
SC Receptacle

Conductor Size/Strands

0 28 AWG Solid
1 30 AWG Solid
2 30 AWG 7 Strand
3 32 AWG 7 Strand
4 34 AWG 7 Strand

Conductor Type

DX White Teflon
DY White PTFE per M16878/6
DC Color Coded Teflon
DM Color Coded Teflon per MIL-STD-681
DT White Tefzel per M22759/33

Conductor Length

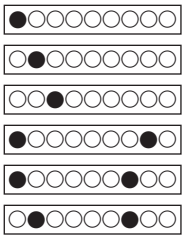
XXX Three numbers only, length is in inches (i.e. 012 = twelve inches)
CXX A “C” followed by two numbers, length is in centimeters (i.e. C06 = 6 centimeters)
MXX An “M” followed by two numbers, length is in meters (i.e. M02 = 2 meters)

Polarization (optional)

Plug contains guide post
Receptacle accepts guide post

Polarization (Strip Type Only)

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



Catalog 1308638
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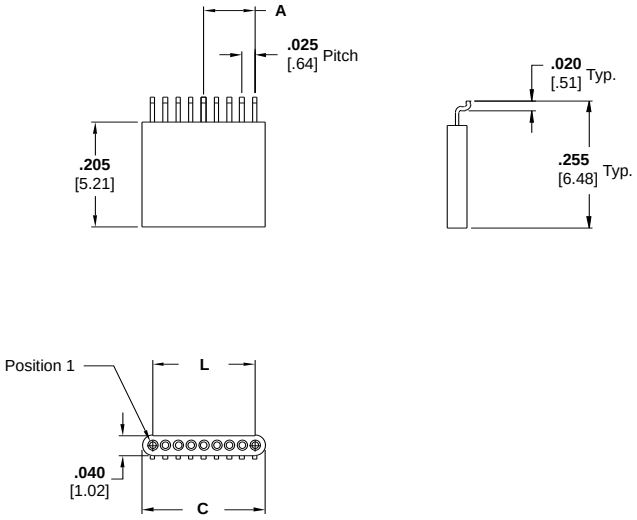
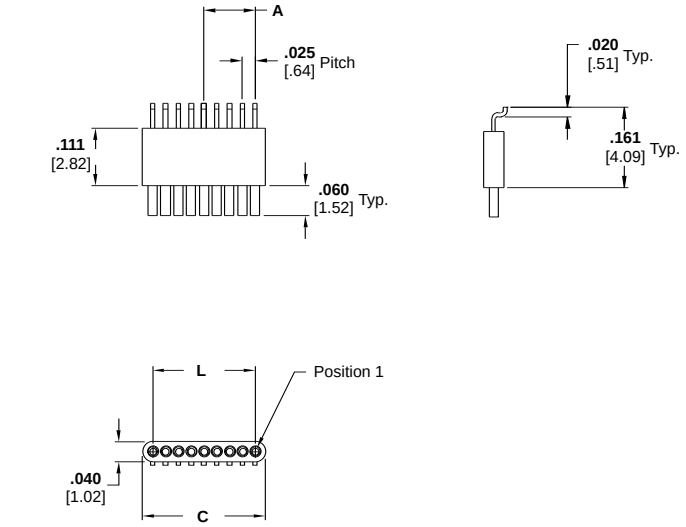
Surface Mount Connectors — Unshrouded

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**



Plug Assembly
Drawing Number 1589451



Receptacle Assembly
Drawing Number 1589452

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]

Catalog 1308638
Revised 8-05

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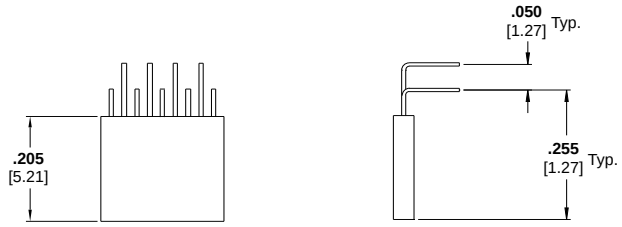
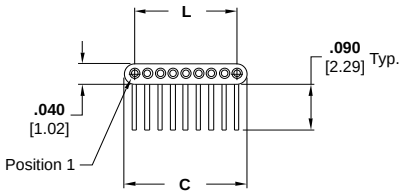
Thru-Hole Connectors — Unshrouded, Horizontal, 1 Row to 2 Row, .050 Spacing

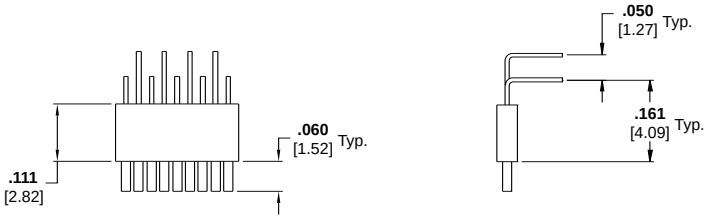
Product Facts

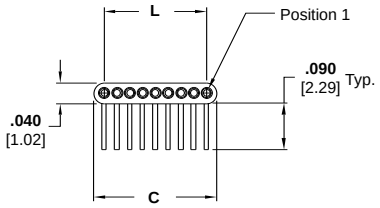
- **Plastic Shell**
- **Standard Sizes: 4, 9, 15, 25, 37 and 51**
- **Factory wired to your specifications**
- **Contact Tyco Electronics for custom configurations**
- **Suggested Thru-Hole Layouts are available on the referenced drawings on the Tyco Electronics website**





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]

Catalog 1308638
Revised 8-05

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Part Numbering Guideline for Surface Mount and Thru Hole Termination

Strip Connectors - Surface Mount and Thru Hole Terminations

USS XXX XX X

Class/Row/Type

USS Unshrouded, 1 row, strip

Positions

004 4 Position
009 9 Position
015 15 Position
025 25 Position

Configuration

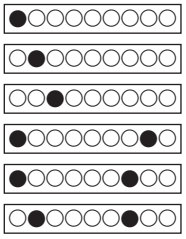
B2 Plug, Horizontal SMT
L2 Receptacle, Horizontal SMT
C6 Plug, Horizontal Mount, Thru Hole
M6 Receptacle, Horizontal Mount, Thru Hole

Polarization (optional)

Plug contains guide post
Receptacle accepts guide post

Polarization (Strip Type Only)

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



Catalog 1308885
Issued 3-05

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Part Number Index Cross Reference

Nanonics Part Number	Tyco Part Number
Wire Terminations	
USS004PC2DC003	0-1589448-1
USS004PC2DC006	0-1589448-2
USS004PC2DC006T	5-1589448-5
USS004PC2DC008	6-1589448-8
USS004PC2DC012	0-1589448-3
USS004PC2DC012T	0-1589448-4
USS004PC2DC012U	0-1589448-5
USS004PC2DC024	0-1589448-6
USS004PC2DC036	0-1589448-7
USS004PC2DC036T	0-1589448-8
USS004PC2DCC20T	5-1589448-9
USS004PC2DCC30	0-1589448-9
USS004PC2DCM01	5-1589448-7
USS004PC2DM012T	7-1589448-2
USS004PC2DM024T	7-1589448-6
USS004PC2DMC30	6-1589448-9
USS004PC2DMC40	7-1589448-1
USS004PC2DMC50	6-1589448-7
USS004PC2DMM01	6-1589448-0
USS004PC2DMM02	6-1589448-1
USS004PC2DNC40	1-1589448-0
USS004PC2DX006	1-1589448-1
USS004PC2DX012	1-1589448-2
USS004PC2GX006	1-1589448-3
USS004PC2GX024	1-1589448-4
USS004PC3DC018	1-1589448-5
USS004PC4DXC10	7-1589448-0
USS004SC2DC002	0-1589449-1
USS004SC2DC003	0-1589449-2
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USS004SC2DC004	0-1589449-4
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USS004SC4DXC30	8-1589449-2
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USS009PC2DC006	1-1589448-7
USS009PC2DC006W	1-1589448-8
USS009PC2DC008U	5-1589448-2
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USS009SC2DCM01T	3-1589449-8
USS009SC2DM012T	8-1589449-8
USS009SC2DM024T	9-1589449-0
USS009SC2DT012T	9-1589449-1
USS009SC2DX004T	3-1589449-9
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USS009SC3DC036	7-1589449-6
USS009SC3DX004T	4-1589449-4
USS015PC1DC036T	7-1589448-3
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USS015PC2DC012V	3-1589448-8
USS015PC2DC018	3-1589448-9
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USS015PC2DX012	4-1589448-2
USS015PC2DX024T	4-1589448-3
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USS015SC1DC036T	8-1589449-6
USS015SC1DC036W	8-1589449-7
USS015SC2DC006	4-1589449-6
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USS037PC2DC006	4-1589448-7
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USS037SC2DC006	5-1589449-6
USS037SC2DC012	7-1589449-5
USS037SC2DC036T	6-1589449-9
USS037SC2DT006T	6-1589449-0
USS037SC2DX006T	5-1589449-7
USS051PC2DC012	5-1589448-0
USS051PC2DX012	5-1589448-1
USS051SC2DC012	5-1589449-8
Surface Mount	
USS004B2	0-1589451-1
USS004B2T	0-1589451-2
USS004B4	0-1589775-1
USS004B45T	0-1589450-1
USS004B4T	3-1589683-2
USS004L2	0-1589452-1
USS004L2T	0-1589452-2
USS009B2	0-1589451-3
USS009B2T	0-1589451-5
USS009B2TE	1-1589451-5
USS009B2Z	0-1589451-6
USS009B43T	5-1589683-6
USS009B4T	5-1589683-7
USS009L2	0-1589452-3
USS009L2T	0-1589452-4
USS009L2U	0-1589452-5
USS009L2V	0-1589452-6
USS015B2	0-1589451-8
USS015B2T	0-1589451-9
USS015B4T	7-1589683-6
USS015L2	0-1589452-7
USS015L2T	0-1589452-8
USS015L2V	0-1589452-9
USS025B2	1-1589451-0
USS025B4T	8-1589683-6
USS025L2	1-1589452-0
USS025L4T	8-1589683-7
USS037B2	1-1589451-1
USS037B2T	1-1589451-4
USS037L2	1-1589452-1
USS037L2T	1-1589452-2
USS051B2	1-1589451-3
USS051L2	1-1589452-3
Thru-Hole	
USS004C6	0-1589453-1
USS004C6T	0-1589453-6
USS004M6	0-1589454-1
USS009C6	0-1589453-2
USS009C6T	0-1589453-3
USS009C6V	0-1589453-4
USS009M6	0-1589454-2
USS015C6	0-1589453-5

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Engineering Notes

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