

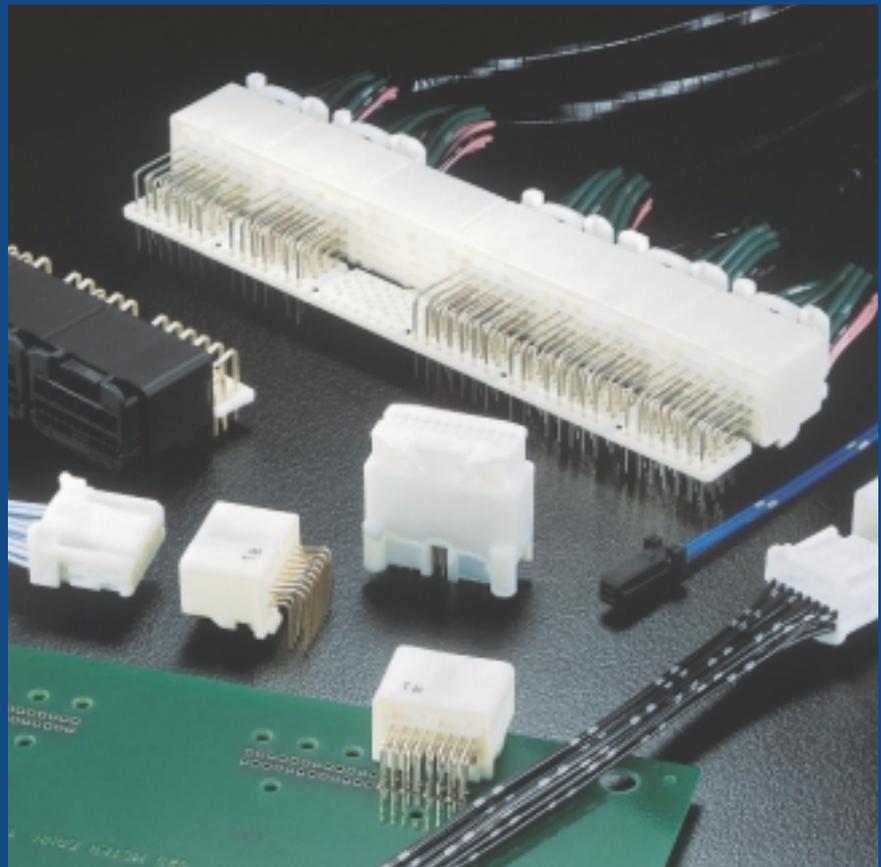
.025 Connector Series

Highlights

- Automotive connector series: 30 % smaller size than the existing .040 III connectors and designed to resist fretting corrosion.

Features

- .025 Connectors with a full range of product lines.
- .025 Connectors were designed to provide better connections and performance while securing higher density in limited spaces as required in advanced electronic automotive control systems.
- .025 Connectors feature a pitch of just 2.2 mm, compared to the current standard pitch of 2.5 mm. This small pitch can help customers reduce space and weight.
- Another feature is a unique contact design to resist fretting corrosion effectively while employing a lower contact force. As a result, the low insertion force of .025 Connectors allows a lower connector mating force while offering high density for easy handling.
- .025 Connectors are available in a full range from 2 to 200 positions, assuring customers a wide choice of products.



Advantages

- Contact Pitch: 2.2 mm
- No. of Positions: 2 to 200
- Connector Mating Force: Max. 70 N
- To meet smaller space requirements
- Combination of .025/.040 and .025/.090 available

Applications

- Wire-to-Wire and Wire-to-Board/ ECU applications

Introduction

Product Description

Usage:

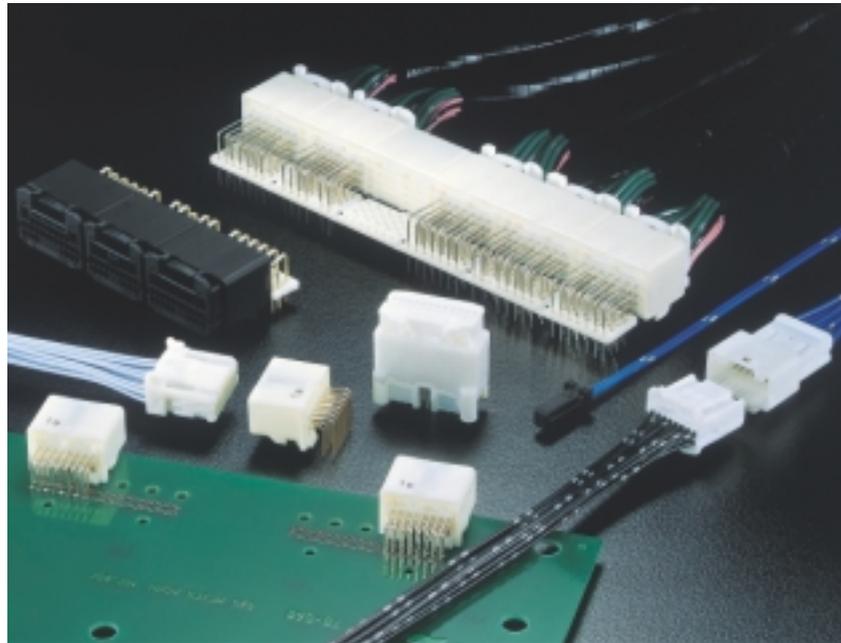
.025 contact is designed for ECU and Wire-to-Wire applications with smaller space requirements.

Applicable for .025 Series Connectors:

1 and 2 Rows, .025/.040 and .025/.090 Hybrid I/O Connectors

Remarks:

Key design feature of contact is to protect/minimize fretting corrosion with lower insertion force.



Product Features

- Primary lock: Terminal lance
- Secondary lock: Housing retainer block

Technical Data

- Product Specification
 - 108-5664 (.025 Conn. 1 Row)
 - 108-5668 (.025 Conn. 2 Row)
 - 108-5674 (.025/.040 Conn.)
 - 108-5677 (.025/.090 Conn.)
- Application Specification
 - 114-5250 (.025 Rec. contact)
 - 114-5291 (.025 Tab contact)
- Part Numbers
 - Receptacle: **1123343**
 - Tab: **1376109**
- Temperature Range
 - 30 °C ... +105 °C
- Dielectric Strength
 - 1000 V AC / 1 min.
- Insulation Resistance
 - > 100 MΩ
- Material
 - Receptacle: Copper-Alloy
 - Tab: Brass
- Plating
 - Pre-tinned and selective gold
- Connector Mating Force
 - Max. 70 N
- Contact Retention Force
 - Min. 100 N (Secondary Lock)

.025 Specification List

Product Specification	Application Specification	Instruction Sheet	Product	Part Number	Product	Part Number
108-5620-1 (.025 6P Connector)	114-5250 (.025 Receptacle Type)	411-5857 (.025 6P Connector)	.025 Rec.	1123343-x		
			Plug 6P	1318305-x		
108-5664-1 (.025 1 Row 8P Connector) (.025/.040 III 1 Row 7P Connector)	114-5250 (.025 Receptacle Type)	411-5965 (.025 1Row 8P Connector)	.040 Rec.	316836-1	Cap 8P	1376366-x
			.040 Rec.	316838-1	Plug 8P	1376368-x
	114-5217 (.040 Receptacle Type)	411-5919 (.025/.040 Connector)	.025 Rec.	1123343-x		
			Plug 7P	1318801-x		
108-5677-1 (.025/.090 Connector)	114-5250 (.025 Receptacle Type)	411-5927 (.025/.090 I/O Connector)	.025 Rec.	1123343-x	Plug 24P	1318756-x
			Cap 26P	1376360-x	Plug 26P	1376357-x
			Cap 50P	1318750-x	Plug 26P	1318757-x
			Cap 80P	1318751-x	Plug 30P	1318758-x
108-5668-1 (.025 2 Row Series Connector)	114-5250 (.025 Receptacle Type)	411-5966 (.025 Wire-to-Wire)	.025 Rec.	1123343-x	Plug 8P	1376352-x
			Cap 8P	1376350-x	Plug 12P	1318774-x
			Cap 12P	1318772-x	Plug 12P	1376675-x
	114-5291 (.025 Tab Type)	411-5928 (.025 2 Row I/O Connector)	Cap 16P	1318382-x	Plug 16P	1318386-x
			Cap 24P	1318853-x	Plug 24P	1318917-x
			Cap 24P	1376111-x	Plug 32P	1318747-x
			Cap 32P	1318745-x	Plug 40P	1318384-x
			Cap 40P	1376113-x	Plug 40P	1318389-x
108-5674-1 (.025/.040 I/O Connector)	114-5250 (.025 Receptacle Type)	411-5932 (.025/.040 I/O Connector)	.040 Rec.	316836-1	Plug 35P	1123338-x
			.040 Rec.	316837-2	Plug 35P	1123340-x
			.040 Rec.	316838-x	Cap 70P	1473193-x
	114-5217 (.040 Receptacle Type)		.025 Rec.	1123343-x	Cap 135P	1376430-x
			Plug 31P	1123341-x	Cap 167P	1318813-x
			Plug 32P	1123339-x		
			Plug 34P	1123337-x		
108-5675-1 (.025 4P Connector)	114-5250 (.025 Receptacle Type)	411-5933 (.025 4P Connector)	.025 Rec.	1123343-x	Cap 4P	1376515-x
			Plug 4P	1318620-x		

.025 Series Connector Part Number / Combination List

.025 Series Cap Assembly (Wire-to-Board)			.025 1-Row 0-1318620-x 4P Plug Hsg.	.025 2-Row 0-1376352-x 8P Plug Assy	.025 1-Row 0-1376368-x 8P Plug Assy	.025 2-Row 0-1318774-x 12P Plug Assy	.025 2-Row 0-1318386-x 16P Plug Assy	.025 2-Row 0-1318917-x 24P Plug Assy	.025 2-Row 0-1318747-x 32P Plug Assy	.025 2-Row 0-1318389-x 40P Plug Assy
Pos.	PN	Description								
4P	0-1376515-x	V 1-Row	○							
8P	0-1376350-x	H 2-Row		○						
	0-1376366-x	H 1-Row			○					
12P	0-1318772-x	H 2-Row				○				
	0-1473898-x	V 2-Row				○				
16P	0-1318382-x	H 2-Row					○			
	0-1565476-x	V 2-Row					○			
24P	0-1318853-x	H 2-Row						○		
	0-1376111-x	V 2-Row						○		
32P	0-1318745-x	H 2-Row						○		
40P	0-1318384-x	H 2-Row								○
	0-1376113-x	V 2-Row								○

.025 Series Cap Assembly (Wire-to-Wire)			.025 2-Row 0-1318386-x 16P Plug Assy	.025 2-Row 0-1318917-x 24P Plug Assy
Pos.	PN	Description		
16P	0-1376106-x		○	
16P	0-1473203-x	Piggy Back	○	
24P	0-1376103-x			○

.025 Series Plug Housing (Only)		
Pos.	PN	Description
2P	0-1473143-x	1-Row
6P	0-1318305-x	2-Row
7P	0-1318801-x (Assy)	.025/.040 1-Row

.025/.040 III Series Cap Assembly (Wire-to-Board)			.025/.040 4-Row 0-1123341-x 31P Plug Assy	.025/.040 4-Row 0-1123339-x 32P Plug Assy	.025/.040 4-Row 0-1473651-x 33P Plug Assy	.025/.040 4-Row 0-1123337-x 34P Plug Assy	.025/.040 4-Row 0-1123338-x 35P Keying A	.025/.040 4-Row 0-1123340-x 35P Keying B
Pos.	PN	Description						
70P	0-1473193-x	H					○	○
135P	0-1376430-x	H	○			○	○	○
167P	0-1318813-x	H	○	○		○	○	○
200P	0-1473649-x	H	○	○	○	○	○	○

.025/.090 Series Cap Assembly (Wire-to-Board)			.025/.090 2-Row 0-1376360-x 26P Plug Assy	.025/.090 3-Row 0-1318756-x 24P Plug Assy	.025/.090 3-Row 0-1318757-x 26P Plug Assy	.025/.090 3-Row 0-1318758-x 30P Plug Assy
Pos.	PN	Description				
26P	0-1376357-x	H Low Profile	○			
50P	0-1318750-x	H		○	○	
80P	0-1318751-x	H		○	○	○

.025 Series and .040 Series Contact System

.025 Contact System

Wire Size Range mm ² (AWG)	Insulation Diameter mm (Inch)	Material and Finish	Part Numbers			
			Strip Form	Loose-Piece	Applicator	Hand Tool with Die Set
.025 Receptacle Contacts						
0.22–0.5 (24–20)	0.95–1.7 (.037–.067)	Copper alloy, pre-tin plated	1123343-1	1318143-1	937762-2	1463260-1
		Copper alloy, selective gold plated	1123343-2	1318143-2	937762-2	1463260-1
.025 Tab Contacts						
0.3–0.5 (22–20)	1.1–1.7 (.043–.067)	Copper alloy, pre-tin plated	1376109-1	1376607-1	1366787-2	1463260-1
		Copper alloy, selective gold plated	1376109-2	1376607-2	1366787-2	1463260-1

.040 Contact System

Wire Size Range mm ² (AWG)	Insulation Diameter mm (Inch)	Material and Finish	Part Numbers			
			Strip Form	Loose-Piece	Applicator	Hand Tool with Die Set
.040 Receptacle Contacts						
0.3–0.85 (22–18)	1.1–2.1 (.043–.083)	Copper alloy, pre-tin plated	316836-1	1376700-1	234588-2	1463383-1
		Copper alloy, selective gold plated	316837-2	1376701-2	234588-2	1463383-1
0.5–1.25 (20–16)	1.8–2.2 (.071–.087)	Copper alloy, selective gold plated	316838-1	1376702-1	919171-2	934193-2

PRODUCT CATALOG

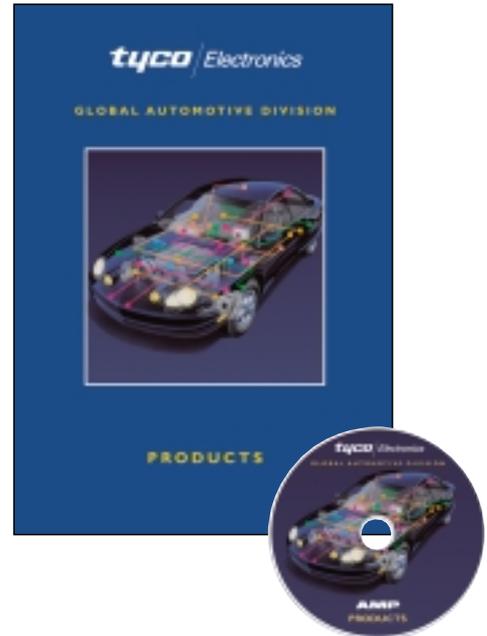
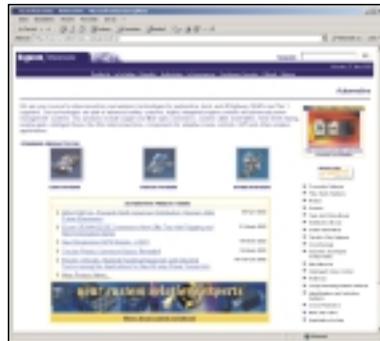
Tyco Electronics

Innovative technologies that help you innovate

Tyco Electronics is one of the major business units of Tyco International Ltd. Headquartered in Harrisburg, Pennsylvania, USA. Tyco Electronics is the world's largest passive electronic components manufacturer, and a world leader in cutting-edge wireless technologies, fiber optic active components, and complete power systems. The company has facilities located in 51 countries serving customers in the aerospace, automotive, computer, communications, consumer electronics, industrial and power industries. Tyco Electronics provides advanced technology products from over thirty well-known and respected product brands, including Agastat, Alcoswitch, AMP, AMP NETCONNECT, Buchanan, CoEv, Critchley, Elcon, Elo TouchSystems, HTS, M/A-COM, Madison Cable, OEG, Potter & Brumfield, Raychem, Schrack, Simel and TDI Batteries.

For more information about Tyco Electronics' Global Automotive Division and its wide range of products we offer you a variety of literature such as product databooks and a lot of product specific brochures.

For databooks, the CD-ROMs and product brochures please contact your local Tyco Electronics organisation as listed below.



Welcome to Global Automotive Division
We invite you to take the Internet tour
www.tycoelectronics.com
www.tycoelectronics.com/automotive

Detailed Product Information is available at the following Tyco Electronics Companies:

Europe/Middle East/Africa

Germany
Bensheim
Phone: +49-6251-133-0
Fax: +49-6251-133-1600

Product Information Center
Phone: +49-6251-133-1999
Fax: +49-6251-133-1988

Austria
Vienna
Phone: +43-1-90-560-0
Fax: +43-1-90-560-1333

Belgium
Kessel-Lo
Phone: +32-16-352-300
Fax: +32-16-352-352

Czech Republic
Kurim
Phone: +420-5-41-162-111
Fax: +420-5-41-162-223

Denmark

Viby J
Phone: +45-70-15-52-00
Fax: +45-86-29-51-33

Finland

Helsinki
Phone: +358-95-12-34-20
Fax: +358-95-12-34-250

France

Cergy-Pontoise Cedex
Phone: +33-1-3420-8888
Fax: +33-1-3420-8600

Tyco Electronics Export

Cergy-Pontoise Cedex
Phone: +33-1-3420-2401
Fax: +33-1-3420-2424

Great Britain

Stanmore Middlesex
Phone: +44-208-954-2356
Fax: +44-208-954-6234

Hungary

Budapest
Phone: +36-1-289-1000
Fax: +36-1-289-1010

Italy

Collegno (Torino)
Phone: +39-011-4012-111
Fax: +39-011-4031-116

Netherlands

's-Hertogenbosch
Phone: +31-73-6246-246
Fax: +31-73-6212-365

Norway

Nesbru
Phone: +47-66-77-88-99
Fax: +47-66-77-88-55

Poland

Warsaw
Phone: +48-22-5490-888
Fax: +48-22-5490-880

Spain

Barcelona
Phone: +34-93-291-0330
Fax: +34-93-201-7879

Sweden

Upplands Väsby
Phone: +46-8-50-72-50-00
Fax: +46-8-50-72-50-01

Switzerland

Steinach
Phone: +41-71-447-0447
Fax: +41-71-447-0444

Americas

United States
Harrisburg, PA
Phone: +1-717-564-0100
Fax: +1-717-986-7575

Troy, MI
Phone: +1-248-273-3359
Fax: +1-248-273-3322

Customer Service
Phone: +1-800-522-6752

Canada – Toronto
Phone: +1-905-475-6222
Fax: +1-905-474-5520

Mexico – Mexico City
Phone: +52-5-729-0400
Fax: +52-5-361-8545

Brasil – São Paulo
Phone: +55-11-3611-1311
Fax: +55-11-3611-0397

Asia/Pacific

Japan
Kawasaki, Kanagawa
Phone: +81-44-844-8079
Fax: +81-44-844-8733

Tyco Electronics AMP GmbH certified according ISO 9001, QS 9000/VDA 6.1 and ISO 14001.