



Introducing SlimSeal SSL Connector

The SlimSeal SSL connectors are low profile, single row connectors developed for indoor and outdoor LED lighting applications. These connectors provide low power, sealed solutions for free hanging, wire-to-wire interconnects and for robust, stable electrical and mechanical wire-to-board connections used in solid state lighting.

KEY FEATURES

- Available in 2, 3 & 4 positions
- SMT and thru hole
- Wire-to-wire and wire-to-board (vertical and right angle)
- 18 - 24 AWG stranded wire
- Positive integral latching
- Polarized connectors
- Pre-assembled seals & wire guides
- IP67 rating
- UV resistance (wire-to-wire)

APPLICATIONS

- Billboards
- Live events lighting
- Wall wash lighting
- Spot lighting
- Street lighting
- Tunnel lighting
- Flood lights
- LED strip lighting

SlimSeal SSL Connector

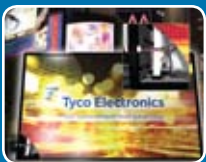
LIGHTING APPLICATIONS



Channel/Sign



Emergency



Digital Signage



Architectural



Street & Stadium



Indoor



Office



Commercial
Refrigeration

ELECTRICAL

Operating Current : 5 AMPS (18-20 AWG) & 3.5 AMPS (22-24 AWG)

Maximum Operating Voltage : 250 VAC/250 VDC

Dielectric Withstanding Voltage : 1500 VAC

MECHANICAL

Number of positions : 2, 3 and 4

Operating Temperature : -40°C to 105°C

Seal Rating : IP67

Durability : 30 mating cycles

MATERIALS

Housings : UL 94 V0 rated high temperature resistant thermoplastic

Receptacle Contacts : Tin Plated Copper Alloy

Tab Contacts : Tin Plated Brass

Integral Seals : Silicone Rubber

STANDARDS AND SPECIFICATIONS

UL 1977, CSA C22.2 No. 182.3

TE Application Specification : 114-13261

TE Product Specification : 108-2391

Exposure : UL 746C F1 (suitable for outdoor use, wire-to-wire only)

APPLICATION TOOLING

18-20 AWG Tab and Receptacle Terminals

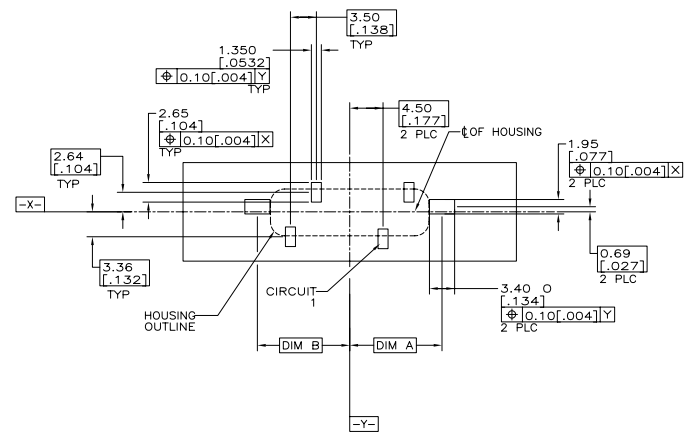
PART NUMBER	DESCRIPTION
2063957-1	Hand Tool
1530177-2	HDI Applicator-Bench Terminator
1530177-1	HDI Applicator-Leadmaker

22-24 AWG Tab and Receptacle Terminals

PART NUMBER	DESCRIPTION
2063956-1	Hand Tool
1530178-2	HDI Applicator-Bench Terminator
1530178-1	HDI Applicator-Leadmaker

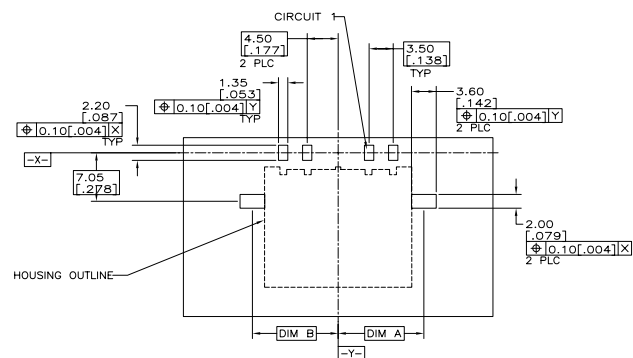


Recommended PCB Layout



PART NUMBER	POSITION SIZE	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"	DIM "D"
2106053-2	2	SMT Vertical Header	8.96 [.353]	8.96 [.353]	14.40 [.567]	20.65 [.813]
2106053-4	3	SMT Vertical Header	12.46 [.491]	8.96 [.353]	17.90 [.705]	24.15 [.951]
2106053-6	4	SMT Vertical Header	12.46 [.491]	12.46 [.491]	21.40 [.843]	27.65 [1.089]

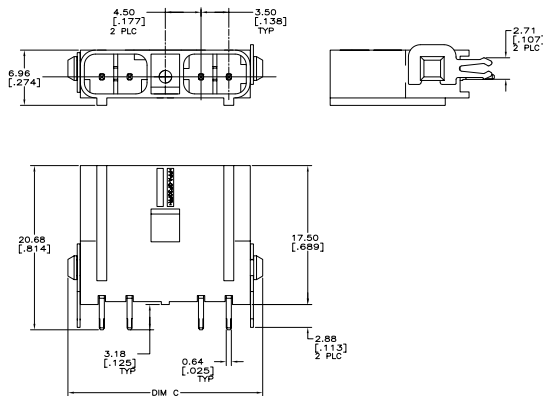
Recommended PCB Layout



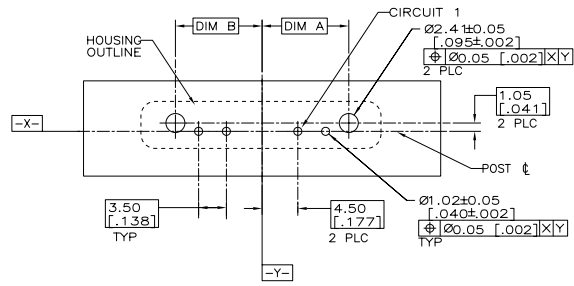
PART NUMBER	POSITION SIZE	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"	DIM "D"
2106056-2	2	SMT Right Angle Header	8.96 [.353]	8.96 [.353]	20.61 [.811]	14.40 [.567]
2106056-5	3	SMT Right Angle Header	12.46 [.491]	8.96 [.353]	24.11 [.949]	17.90 [.705]
2106056-8	4	SMT Right Angle Header	12.46 [.491]	12.46 [.491]	27.61 [1.087]	21.40 [.843]

PRODUCT DIMENSIONS cont.

Vertical Thru Hole Header

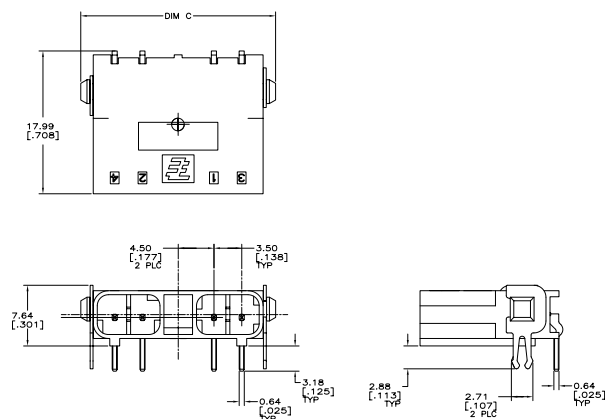


Recommended PCB Layout

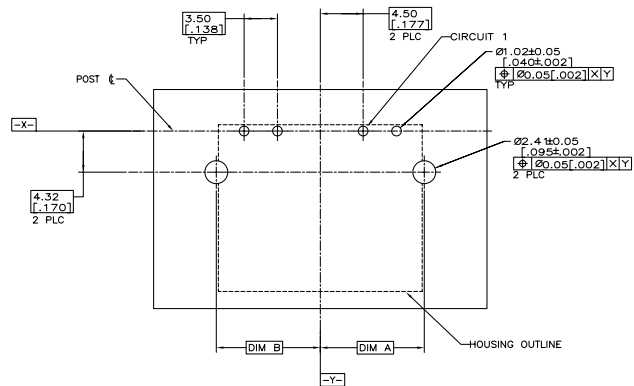


PART NUMBER	POSITION SIZE	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
2106112-2	2	TH Vertical Header	7.42 [.292]	7.42 [.292]	17.54 [.691]
2106112-4	3	TH Vertical Header	10.92 [.430]	7.42 [.292]	21.04 [.828]
2106112-6	4	TH Vertical Header	10.92 [.430]	10.92 [.430]	24.54 [.966]

Right Angle Thru Hole Header



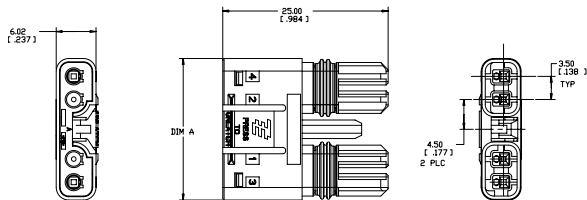
Recommended PCB Layout



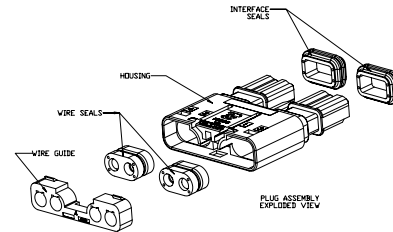
PART NUMBER	POSITION SIZE	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"
2106111-2	2	TH Right Angle Header	7.42 [.292]	7.42 [.292]	17.54 [.691]
2106111-4	3	TH Right Angle Header	10.92 [.430]	7.42 [.292]	21.04 [.828]
2106111-6	4	TH Right Angle Header	10.92 [.430]	10.92 [.430]	24.54 [.966]

PRODUCT DIMENSIONS cont.

Free Hanging Plug Assembly

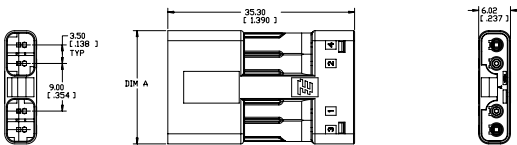


Exploded View

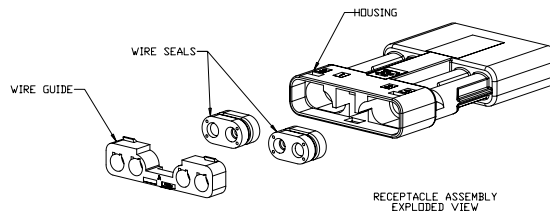


PART NUMBER	POSITION SIZE	DESCRIPTION	DIM "A"
2106135-2	2	Plug Assembly	14.40 [.567]
2106135-3	3	Plug Assembly	17.90 [.705]
2106135-4	4	Plug Assembly	21.40 [.843]

Free Hanging Receptacle Assembly

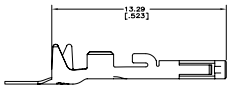


Exploded View



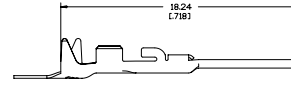
PART NUMBER	POSITION SIZE	DESCRIPTION	DIM "A"
2106136-2	2	Receptacle Assembly	14.40 [.567]
2106136-3	3	Receptacle Assembly	17.90 [.705]
2106136-4	4	Receptacle Assembly	21.40 [.843]

Free Hanging Receptacle Contact



PART NUMBER	POSITION SIZE
2106123-1	18-20 AWG Receptacle Terminal
2106123-2	18-20 AWG Receptacle Terminal (Loose Piece)
1-2106123-1	22-24 AWG Receptacle Terminal
1-2106123-2	22-24 AWG Receptacle Terminal (Loose Piece)

Tab Contact



PART NUMBER	POSITION SIZE
2106124-2	18-20 AWG Tab Terminal
2106124-9	18-20 AWG Tab Terminal (Loose Piece)
2-2106124-2	22-24 AWG Tab Terminal
2-2106124-7	22-24 AWG Tab Terminal (Loose Piece)

Cable Assemblies

PART NUMBER	POSITION	DESCRIPTION
2106378-2	2	101.60 [4.000] Plug Cable Assembly
2106378-3	3	101.60 [4.000] Plug Cable Assembly
2106378-4	4	101.60 [4.000] Plug Cable Assembly

PART NUMBER	POSITION	DESCRIPTION
2106391-2	2	101.60 [4.000] Receptacle Cable Assembly
2106391-3	3	101.60 [4.000] Receptacle Cable Assembly
2106391-4	4	101.60 [4.000] Receptacle Cable Assembly

Questions to ask at design in

What wire gauge and insulation type will you be using?

The connectors accept 18 - 20 AWG and 22 - 24 AWG stranded wire with a wire varying maximum insulation outside diameters per wire gauge.

What special retention mechanisms are available to ensure stability on the printed circuit board?

The vertical and right angle SMT headers have surface mount hold downs whereas the vertical and right angle TH headers have board locks to provide stability during mating and un-mating.

What prevents the connectors from being disconnected unintentionally?

The connectors are snag resistant and have an integral, flush mounted, actuated latch that prevents inadvertent un-mating of the connectors.

Is your manufacturing process automated?

The SMT headers are manufactured in high temperature material for reflow processing and tape and reel packaged for high speed SMT processing.

What application tooling options are available?

Hand tools are available for product evaluation and/or low volume production using loose piece terminals. Applicators are available for mid to high volume production terminals on reel using bench top semi-automatic presses or fully automated lead makers.

What mechanical and electrical testing has the connectors been subjected to?

The TE Product Specification 108-2391 provides a summary of the test groups, sequences and results that the product was subjected to during product qualification testing.

What version of the header assemblies, vertical or right angle, are more widely accepted?

Right angle surface mount headers are more often chosen because they provide a more robust, low profile connection to the printed circuit board. Vertical headers are chosen if limited space is available to mate the plug connection in the final assembly.

FOR MORE INFORMATION : www.tycoelectronics.com/lighting

Technical Support

Internet:	www.tycoelectronics.com/help
USA:	+1 (800) 522-6752
Canada:	+1 (905) 470-4425
Mexico & Central America:	+ 52(O) 55-1106-0814
South America:	+55 (O) 11-2103-6000
Germany:	+49 (O) 6251-133-1999
UK:	+44 (O) 800-267666
France:	+33 (O) 1-3420-8686
Netherlands:	+31 (O) 73-6246-999
China:	+86 (O) 400-820-6015

Part numbers in this brochure are RoHS Compliant*, unless marked otherwise.

*as defined www.tycoelectronics.com/leadfree

Tyco Electronics Corporation
Harrisburg, PA

tycoelectronics.com

© 2010 Tyco Electronics Corporation All Rights Reserved.

4-1773455-9 3M FP 04/2010

TE (logo) and Tyco Electronics are trademarks of the Tyco Electronics group of companies and its licensors. Other products, logos, and Company names mentioned herein may be trademarks of their respective owners.

While Tyco Electronics has made every reasonable effort to ensure the accuracy of the information in this catalog, Tyco Electronics does not guarantee that it is error-free, nor does Tyco Electronics make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. Tyco Electronics reserves the right to make any adjustments to the information contained herein at any time without notice. Tyco Electronics expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult Tyco Electronics for the latest dimensions and design specifications.



Tyco Electronics
Our commitment. Your advantage.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9