

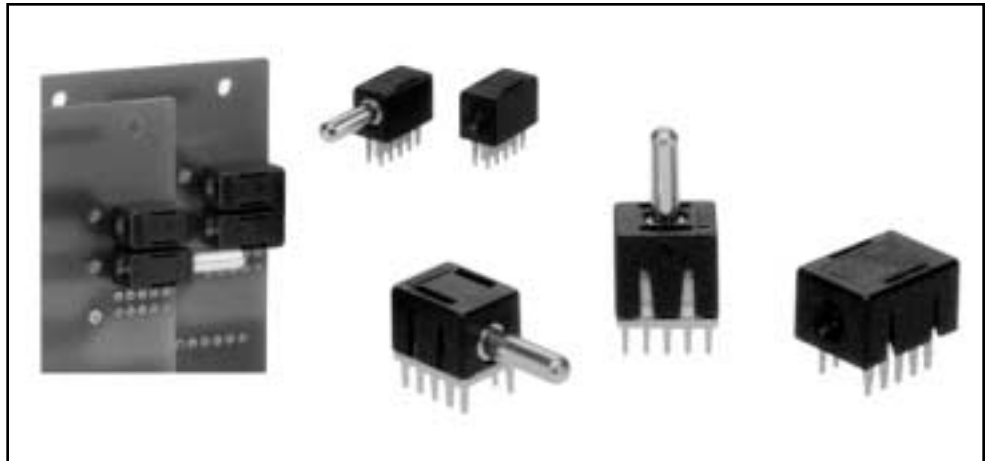
Product Facts

- Uses high-performance Crown contact
- 35A current rating
- True compliant press-fit and solder tails
- Pin locking feature option
- Standard DIP footprint .300 x .100 and SLIMLINE ICCON Connector .100 x .100
- Insulator rated at 105 C, UL 94V-0
- Meets US, Canadian and European safety regulatory requirements
- #8 AWG wire size
- Parallel and perpendicular
- Sequencing capability
- All ICCON Products in this section are RoHS compliant

Typical Applications

- Power distribution
- Board-to-board interconnection
- Board-to-busbar interconnection
- Board-to-wire interconnection
- High-density power designs
- Board stacking

ICCON Single Pole Power Connectors



ICCON connectors provide a reliable high current power interconnection with quick connect/disconnect function for space constrained motherboard-daughterboard, cable-board and board-busbar power delivery applications.



Product Highlights

High Performance Contact

ICCON connectors use ELCON CROWN BAND Contact, a multifingered spring which provides a greater surface contact area, thus ensuring small millivolt drop, minimum heat generation and very low insertion and extraction forces.

Optional Locking Feature

The optional locking feature provides minimum 5 lbs. (2.21kg) retention force to improve connection integrity, securing against accidental unmating in harsh mechanical conditions.

Support for Multiple Mounting Styles

ICCON connectors are available with press-fit or solder tails for mounting on both PC boards and bus bars. Tyco Electronics uses eye of the needle true compliant tails for the most reliable mounting using solderless techniques. Each ICCON connector has a 10 pin DIP footprint for convenient industry standard mounting

Mating with Discrete Contracts

For further versatility, ICCON connector products can mate with discrete contacts, available in a variety of termination types.

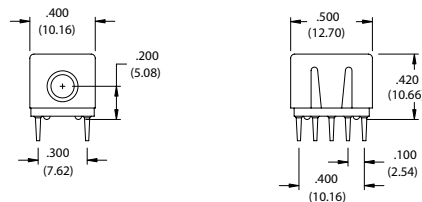
SLIMLINE ICCON Connectors

With a footprint close to 30% smaller than the standard ICCON connector products, the SLIMLINE ICCON connector products allow integrating more components in less board real estate, providing substantial space savings compared to connectors of this type in the same performance range.

Standard DIP Connectors (.300 x .100 footprint) (ICCON Connectors)

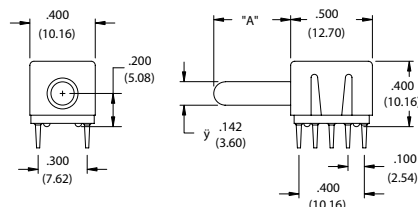
R/A Receptacle

6643232-1, solder
6643272-1, compliant



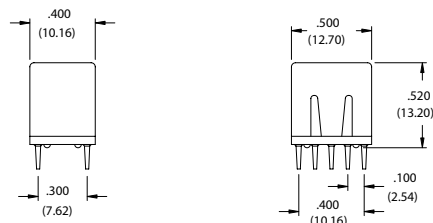
R/A Pin

For Part Numbers and "A" Dimension
See Table Below



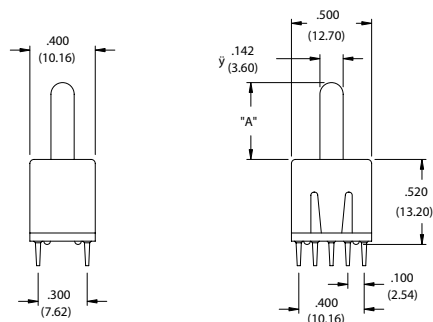
Vertical Receptacle

6643264-1 Through Hole, solder
6643247-1 Closed, Solder
6643269-1 Through Hole, compliant



Vertical Pin

For Part Numbers and "A" Dimension
See Table Below



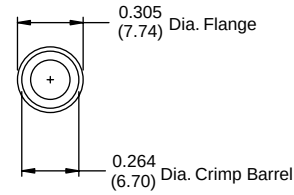
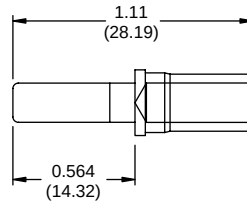
Right Angle Pins Solder tail	Compliant	Locking Style	Length "A"
6643281-1	6643275-1	Non-Lock	.470 [11.93]
6643276-1	6643273-1	Lock	.470 [11.93]
6643431-1	6643442-1	Non-Lock	.570 [14.48]
6643432-1	6643443-1	Non-Lock	.750 [19.05]
6643433-1	6643444-1	Non-Lock	1.000 [25.40]
6643434-1	6643445-1	Non-Lock	1.250 [31.75]
6650785-1	6643446-1	Non-Lock	1.500 [38.10]
6643435-1	6643447-1	Non-Lock	1.750 [44.45]

Vertical Pins Solder tail	Compliant	Locking Style	Length "A"
6643283-1	6643274-1	Non-Lock	.470 [11.93]
6643266-1	6643271-1	Lock	.470 [11.93]
6643436-1	6643449-1	Non-Lock	.570 [14.48]
6643437-1	6643450-1	Non-Lock	.750 [19.05]
6643438-1	6643451-1	Non-Lock	1.000 [25.40]
6643439-1	6766439-1	Non-Lock	1.250 [31.75]
6643440-1	6766440-1	Non-Lock	1.500 [38.10]
6643441-1	6766441-1	Non-Lock	1.750 [44.45]

Discrete Contacts (ICCON Connectors)

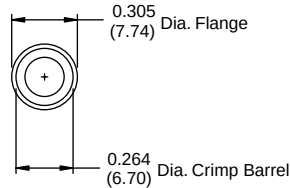
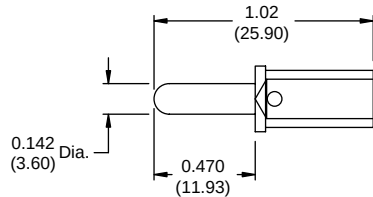
Crimp Socket

6648317-1 #8 AWG



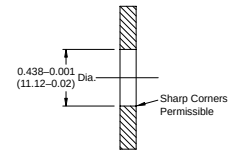
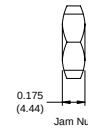
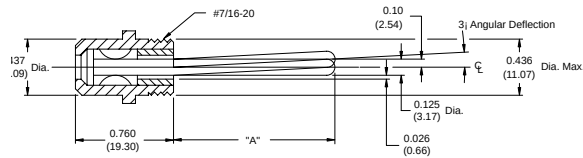
Crimp Pins

1766163-1 #8 AWG Non-Lock
1766160-1 #8 AWG Lock
1766816-1 #10 AWG Non-Lock
1766161-1 #10 AWG Lock

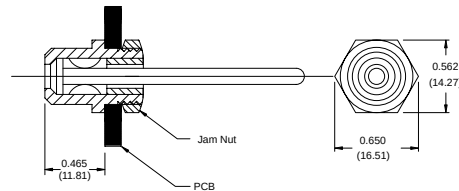


Board Mount Pin – Floating

6643252-1 "A" = 1.250 (31.75)
6643253-1 "A" = 1.350 (34.29)

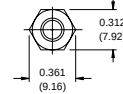
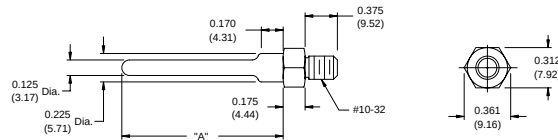


Mounting Requirements



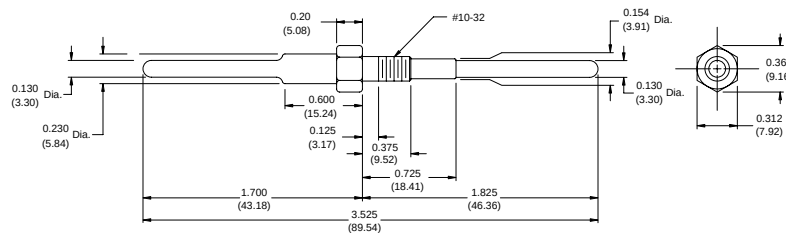
Board Mount Pin

1766815-1 "A" = 1.250 (31.75)
1766157-1 "A" = 1.350 (34.29)



Double-Ended Board Mount Pin

1766817-1



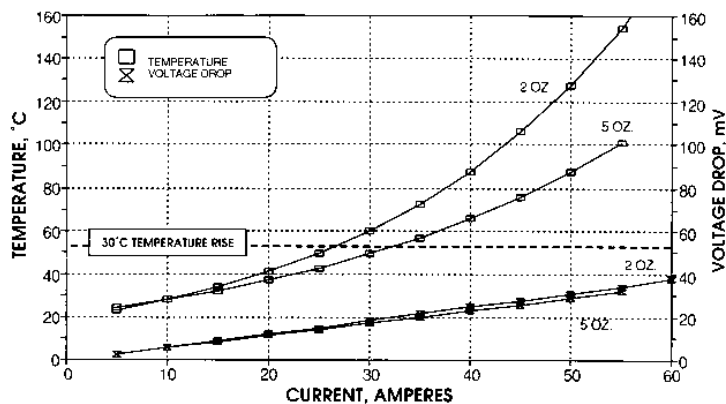
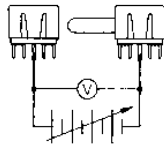
Electrical Performance (ICCON Connectors)

Right Angle Socket

6643232-1

Right Angle Pin

6643281-1

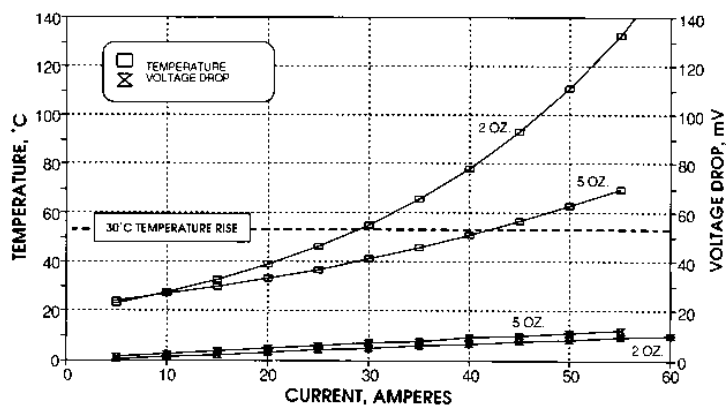
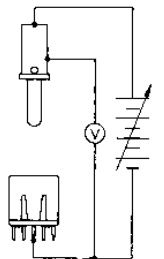


Vertical Socket

6643264-1

Discrete Pin

1766163-1



Specifications

Finishes	
Crowns	Gold plated over nickel
Pin Contacts	Silver over nickel
Material	
Housing	Polyester, 30% glass-filled, UL 94V-0 black
Body	Metal Alloy
Pin Contacts	Brass
Crowns	Beryllium Copper
Electrical	
Ratings	UL (USR) 35A at 250V
	UL (CNR) 25A at 250V