



Quick Reference Guide

Economy Power Connector System

TE Connectivity's (TE) Economy Power (EP) wire-to-board connector family is widely used for power circuit applications. Based on the proven EP version the new and advanced EP II and EP 2.5 lines offer additional benefits. EP II connectors are rated for 600VAC at up to 11A and thus offer potential for a larger range of applications. Still their electric properties make it an option to mix signal and power in one connector.

EP II connectors offer two levels of mechanical and electrical reliability: A true locking latch prevents the plug housing and post header from vibrating apart, while a Terminal Position Assurance (TPA) device produces a tangible click once a receptacle contact is fully seated. A visual aid confirms that the contact is home plus it provides easy access to a probe tip for continuity testing. The new EP 2.5 family is a compact version based on a .100" [2.5mm] pitch ideally suited for PC board space restraints. Up to 20 positions make it the perfect choice for combining power and signal.

FEATURES AND BENEFITS

- Positive audible latch designed for easier mating & unmating
- Polarization tabs help prevent post misalignment
- Complete product offering with color coded housings
- End to end stackable
- Intermateable to similar competitive products for retrofit applications
- Broad portfolio includes .100, .156, .200 and .312 centerline families.

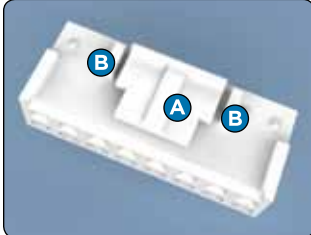
PRODUCT APPLICATIONS

- Household appliances
- Commercial & building equipment
- HVAC & vending controls
- Industrial machinery & equipment: generators
- Coin changers/vending machines
- Lighting

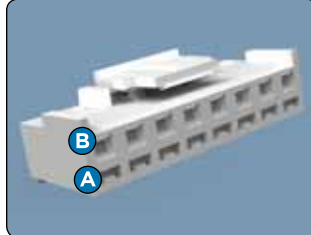
Electrical and Mechanical Specifications

Product	Pos	Current Rating	Centerline	Voltage Rating	Operating Temperature	Housing Rating	Wire Size
Economy Power (EP)	1-12	7.5	.156 (3.96)	250 VAC	-25°C to 105°C	UL 94V-0	18-22 AWG
Economy Power II (EP II)	2-12	11	.156 (3.96)	600 VAC	-55°C to 105°C	UL 94V-0	16-22 AWG
Economy Power 2.5 (EP 2.5)	2-20	3	.100 (2.50)	250 VAC	-55°C to 105°C	UL 94V-0	22-26 AWG

Housing Features



A : Positive audible latch on housing helps to ensure complete system mating and provides durability in high vibration applications. **B** : Anti-snag features prevent wires from snagging on the latch.

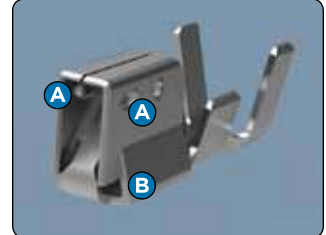


EP II Housing contains **A** window slots for continuity testing simultaneously with **B** contact back-out check.

Contact Features (EP II)

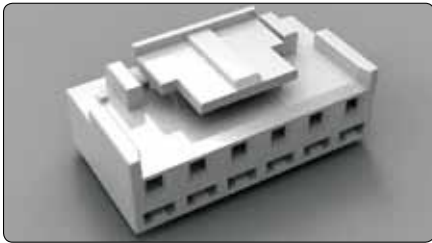


A : Lanceless contact design on EP II to ensure reliable contact seating



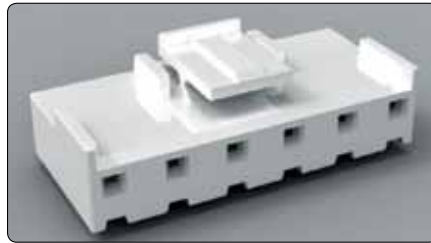
A : EP II additional points of contact for increased current rating. **B** : Asymmetrical design prevents mis-insertion.

Housing*



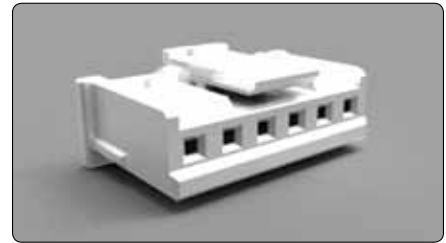
2132781

.156 (3.96 mm) EP II Housing



1744036

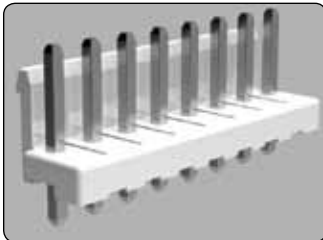
.200 (5.0 mm) EP Housing



2110992

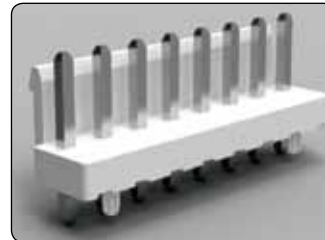
.100 (2.5 mm) EP 2.5 Housing

Headers*



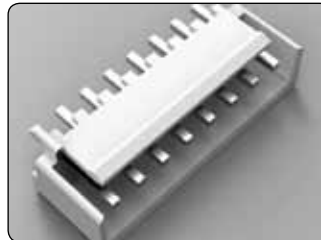
1123723

.156 (3.96 mm) low profile header (EP and EP II)



1744057

.156 (3.96 mm) low profile post header w/ pegs (EP and EP II)



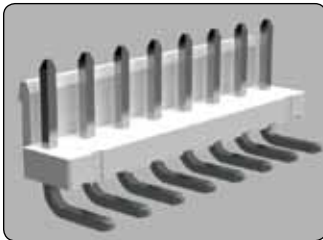
1877285

.156 (3.96 mm) Vertical shrouded headers (EP and EP II)



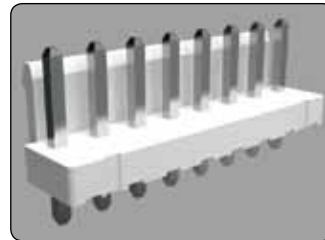
1123724

.312 (7.92 mm) straight post header (EP)



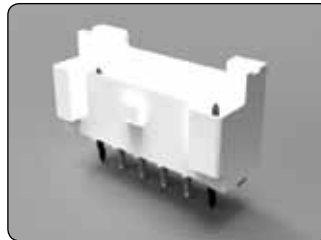
647676

.156 (3.96 mm) right angle post header (EP and EP II)



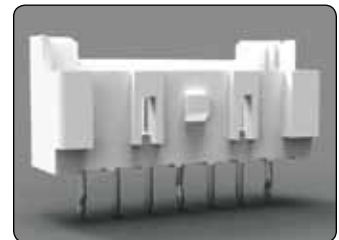
1744037

.200 (5.0 mm) straight post header (EP)



2132230

.100 (2.5 mm) vertical shrouded header w/ boss (EP 2.5)



2132415

.100 (2.5 mm) vertical shrouded header w/o boss (EP 2.5)

*Base part numbers shown. See following page for specific part numbers.

Economy Power 2.5 mm (EP 2.5)

.100 EP 2.5 CRIMP RECEPTACLE CONTACTS		
Phos Bronze, Pre-Tin	26-22 AWG	8000/reel 2110989-1

Part Number Ordering : Example for X-2110992-Y Housing*

-2 thru -9

Substitute dash number listed for "Y", therefore a -2 signifies PN 2110922-2

1- -0 thru 2- -0

Substitute first number for "X" and second number listed for "Y", therefore a 1- -2 signifies PN 1-2110922-2

* Follow same numbering scheme throughout for other part numbers listed

.100 EP 2.5 PLUG HOUSINGS																				
Position size		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Housing	X-2110992-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2	1- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	2- -0

.100 EP 2.5 VERTICAL SHROUDED HEADERS																				
Position size		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
With Boss	X-2132230-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2	1- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	2- -0
Without Boss	X-2132415-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2	1- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	2- -0

Economy Power (EP) and EP II

.156 ECONOMY POWER CRIMP, RECEPTACLE CONTACTS, BREAKAWAY TPA DEVICE						
	Material/Finish	Wire Size	Strip Form	Loose Piece	TPA	TPA Type
Economy Power	Phos Bronze, Pre-Tin	18-22 AWG	1123721-1	1318912-1	NA	NA
	Brass, Pre-Tin	18-22 AWG	1123721-2	1318912-2	NA	NA
Economy Power II	Phos Bronze, Pre-Tin	18-22 AWG	1744144-1	1744395-1	1-2132782-2	12 Pos Breakaway
		16-20 AWG	1744201-1	1744396-1		

.156 ECONOMY POWER LOW-PROFILE PLUG HOUSINGS												
Position size		2	3	4	5	6	7	8	9	10	11	12
Economy Power	X-1123722-Y	1- -2	1- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	1- -0	1- -1	1-647690-2
Economy Power II	X-2132781-Y	2132813-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2

.156 ECONOMY POWER STRAIGHT LOW-PROFILE HEADERS												Note : Additional colors available upon request.
Position size		2	3	4	5	6	7	8	9	10	11	12
Bulk Pack	X-1123723-Y	1- -2	1- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	1- -0	1- -1	1-647689-2
Tube Loaded	X-1318300-Y	1- -2	1- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	1- -0	1- -1	--
Bulk with Pegs	X-1744057-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2
Bulk, High Temperature	X-1744055-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	--
Vertical Shrouded	X-1877285-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2

.156 ECONOMY POWER RIGHT-ANGLE LOW-PROFILE POST HEADERS									Note : Additional colors available upon request.			
Position size		2	3	4	5	6	7	8	9	10	11	12
Bulk Pack	X-647676-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2
Bulk, High Temperature	X-1744056-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2

.312 ECONOMY POWER STRAIGHT POST HEADERS											Note : Additional colors available upon request.	
Position size		2	3	4	5	6	7	8	9	10	11	12
Bulk Pack	X-1123724-Y	1- -2	1- -3	1- -4	1- -5	1- -6	--	--	--	--	--	--
Tube Loaded	X-1318301-Y	1- -2	1- -3	1- -4	1- -5	--	--	--	--	--	--	--

.200 ECONOMY POWER PLUG HOUSINGS											Note : Additional colors available upon request.	
Position size		2	3	4	5	6	7	8	9	10	11	12
Economy Power	X-1744036-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2

.200 ECONOMY POWER POST HEADERS											Note : Additional colors available upon request.	
Position size		2	3	4	5	6	7	8	9	10	11	12
Straight	X-1744037-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2
Right angle	X-1744048-Y	-2	-3	-4	-5	-6	-7	-8	-9	1- -0	1- -1	1- -2

Frequently asked questions

Do I need new tooling to change from EP to EP II housings?

No. The same tooling is used for EP and EP II.

Is TE's EP 2.5 intermateable with competitors product?

Yes. Our EP 2.5 connectors are intermateable to similar competitive products for retrofit applications

Is EP, EP II and EP 2.5 available in colors?

Yes. All of these are available in multiple colors.

What if I have additional product questions?

We've got answers when you need them! You can contact Product Information Specialists by e-mail, telephone or live chat. English, German and Chinese speaking Product Information Specialist are available, providing you with the technical assistance you require.

FOR MORE INFORMATION

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