

Quick Reference GuideEconomy Power Connector System

TE Connectvity'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

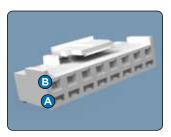
Electrical and Mechanical Specifications

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
Ecomony 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. (a): Anti-snag features prevent wires from snagging on the latch.

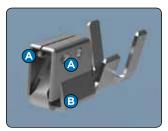


EP II Housing contains (a) window slots for continuity testing simultaneously with (b) contact back-out check.

Contact Features (EP II)

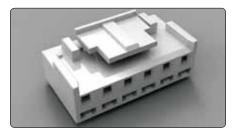


(A): Lanceless contact design on EP II to ensure reliable contact seating



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

Housing*



2132781 .156 (3.96 mm) EP II Housing



1744036 .200 (5.0 mm) EP Housing

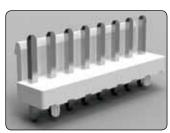


2110992 .100 (2.5 mm) EP 2.5 Housing

Headers*



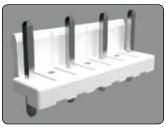
1123723 .156 (3.96 mm) low profile header (EP and EP II)



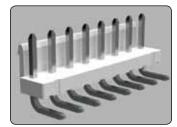
1744057 .156 (3.96 mm) low profile post header w/ pegs (EP and EP II)



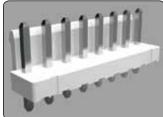
1877285 .156 (3.96 mm) Vertical shrouded headers (EP and EP II)



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) vetical 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 CONTA	CTS	
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Phos Bronze, Pre-Tin	26-22 AWG	8000/reel
Phos Bronze, Pre-11n	26-22 AWG	2110989-1

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

-2 thru -9Substitute 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 H	OUSINGS																			
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	10	11	12	13	14	15	16	17	18	19	2(
																			_	
.100 EP 2.5 VERTIC	AL SHROUDED	HEA	DERS	s																
		HEA	DERS	S 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
.100 EP 2.5 VERTIC		HEA 2 -2			5	6	7	8	9 -9		11		13	14	15 15				19 19	

Economy Power (EP) and EP II

.156 ECONOMY	POWER CRIMP,	RECEPTACLE CONTAC	TS, BREAKAWAY TPA	DEVICE		
	Material/Finish	Wire Size	Strip Form	Loose Piece	TPA	TPA Type
Faanamu Bausan	Phos Bronze,Pre-Tin	18-22 AWG	1123721-1	1318912-1	NA	NA
Economy Power	Brass,Pre-Tin	18-22 AWG	1123721-2	1318912-2	NA	NA
Farmanny Bauran II	Dhaa Duanna Dua Tin	18-22 AWG	1744144-1	1744395-1	1-2132782-2	12 Dee Breekerrer
Economy Power II	Phos Bronze,Pre-Tin	16-20 AWG	1744201-1	1744396-1	1-2132/82-2	12 Pos Breakaway

.156 ECONOMY POWER LOW-PROFILE PLUG HOUSINGS												
Position si	ze	2	3	4	5	6	7	8	9	10	11	12
Economy Power	X-1123722-Y	12	13	14	15	16	17	18	19	10	11	1-647690-2
Economy Power II												

.156 ECONOMY PO	WER STRAIG	HT LOW-PR	OFILE	HEADEF	เร			No	ote : Additi	onal color	s available	upon request.
Position si	ze	2	2 3 4 5 6 7 8 9 10 11 12									
Bulk Pack	X-1123723-Y	12	13	14	15	16	17	18	19	10	11	1-647689-2
Tube Loaded	X-1318300-Y	12	13	14	15	16	17	18	19	10	11	
Bulk with Pegs	X-1744057-Y	-2	-3	-4	-5	-6	-7	-8	-9	10	11	12
Bulk, High Temperature	X-1744055-Y	-2	-3	-4	-5	-6	-7	-8	-9	10	11	
Vertical Shrouded	X-1877285-Y	-2	-3	-4	-5	-6	-7	-8	-9	10	11	12

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

.312 ECONOMY POWER STRAIGHT POST HEADERS Note : Additional colors available upon reques												upon request.
Position si	ze	2	3	4	5	6	7	8	9	10	11	12
Bulk Pack	X-1123724-Y	12	13	14	15	16						
Tube Loaded	X-1318301-Y	12	13	14	15							

.200 ECONOMY PC	WER PLUG H	IOUSINGS						No	ote : Additi	onal color	s available	upon request.	
Position si	ze	2	3	Note : Additional colors available upon request. 3 4 5 6 7 8 9 10 11 12									
Economy Power	X-1744036-Y	-2	-3	-4	-5	-6	-7	-8	-9	10	11	12	

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



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

TE Technical Support Center

Internet: te.com/help +1 (800) 522-6752 USA: +1 (905) 475-6222 Canada: Mexico +52 (0) 55-1106-0800 Latin/S. America: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999 UK. +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015

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*as defined www.te.com/leadfree

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