

# ECONOMY CLUSTER BLOCKS

Housings and contacts  
Designed for compressors



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### The requirement

Economical connection solutions are required for hermetic compressor applications in refrigerators and air conditioners. Some of these applications require products that are compliant with the Glow Wire test (GWT) per the IEC60335-1 standard.

### TE Connectivity's solution

TE Connectivity (TE) has developed new cluster block housings that are used with a new pin receptacle to provide cost effective cluster block connections for hermetic compressors. The housings are offered in both standard glass-filled PBT material and glass-filled PBT material meeting both the GWT and UL 94 V-0 requirement.

### KEY FEATURES

- Low contact insertion force permits easy assembly
  - High contact retention force helps assure connection continuity
  - Product design is compatible with automated assembly processes
  - Choice of housings includes model complying with GWT\* and UL 94 V-0 for use outside of compressors
- \* Compliant with Glow Wire test required by IEC/EN 60335-1 5th edition: Household and Similar Appliances-Safety.

### APPLICATIONS

- Refrigerator and freezer compressors
- Air conditioner compressors

### SPECIFICATIONS

- Product specification: 108-5205
- Application specification: 114-5235

### ELECTRICAL

- Voltage rating: 240 VAC
- Current rating: 13 A max.
- Dielectric withstanding voltage: 2.7 kV for 1 s.

### MECHANICAL

- Contact retention: 80 N min.
- Mating force: 134 N max.
- Unmating force: 37.3 N min.

### MATERIAL

- Housings: Glass-filled PBT.
- Contacts: Tin plated phosphor bronze.

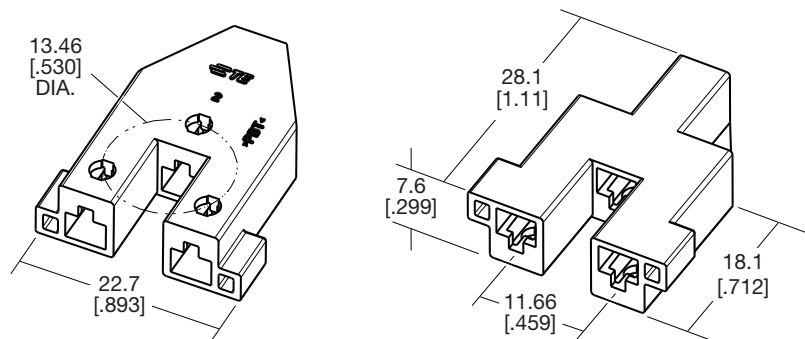
### STANDARDS

- IEC/EN 60335-1 5th edition: Household and Similar Appliances-Safety (2825082-2 only)
- UL 94 V-0 (2825082-2 only)
- UL 1077

Economy Cluster Block Housings

Type	Header Pin Circle Dia.	Material / Use	Rating	Color	Part Number
	mm [inch]				
3 Position Center Back Extra Wide	13.46 [.530]	PBT+GF / Exterior	Standard	Natural	2825082-1
			GWT 750°C and UL 94 V-0	Black	2825082-2

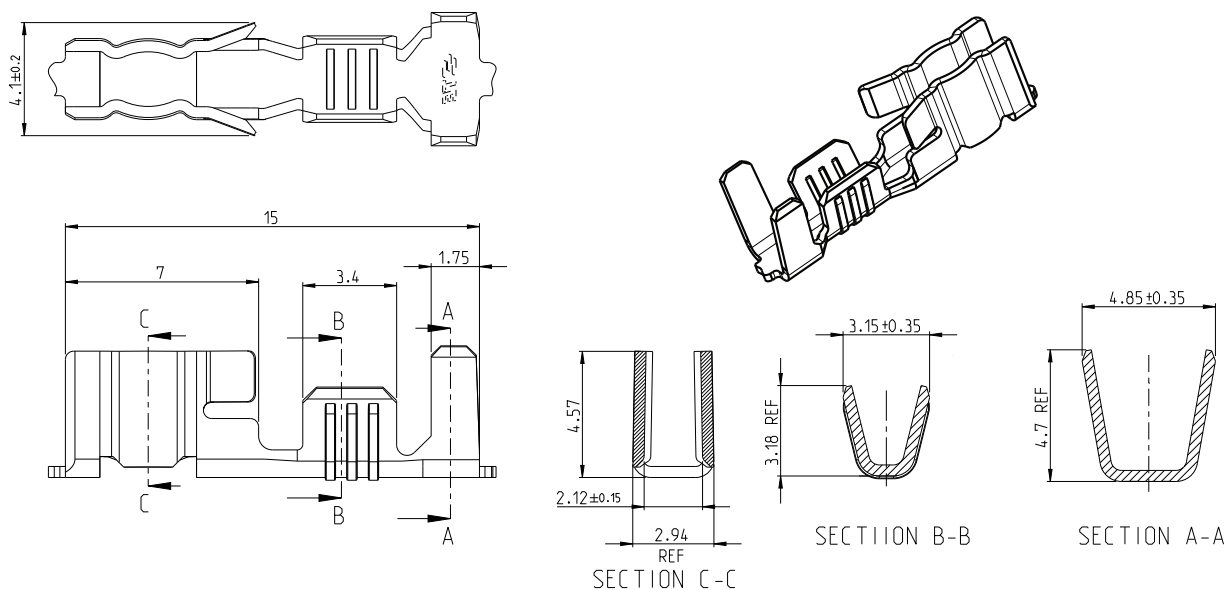
CLUSTER BLOCK HOUSING DIMENSIONS



Pin Receptacle

Type	Mating Pin Diameter	Lead Wire Size	Insulation Diameter	Material	Receptacle Part Number	Application Tooling Part Number
	mm [inch]	mm <sup>2</sup> [AWG]	mm [inch]			Atlantic Applicator
Lead Wire Oval Contact	2.29 [.090]	.50-1.25 [20-16]	2.00 - 3.40 [.080 - .134]	Tin Plated Phosphor Bronze	2825083-1	2150527-2

LEAD WIRE OVAL CONTACT DIMENSIONS



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## FOR MORE DETAILS ABOUT ECONOMY CLUSTER BLOCKS

Visit [www.te.com](http://www.te.com) and enter the search term "CLUSTER BLOCK"

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