



# ECONOMY CLUSTER BLOCKS

## HOUSINGS AND CONTACTS DESIGNED FOR COMPRESSORS

### 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-O requirement.

### 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

### SPECIFICATION

- Product specification: [108-5205](#)
- Application specification: [114-5235](#)

### 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-O for use outside of compressors
- Compliant with Glow Wire test required by IEC/EN 60335-1 5th edition: Household and Similar Appliances-Safety.

### STANDARDS

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

### APPLICATIONS



Refrigerator and  
Freezer Compressors



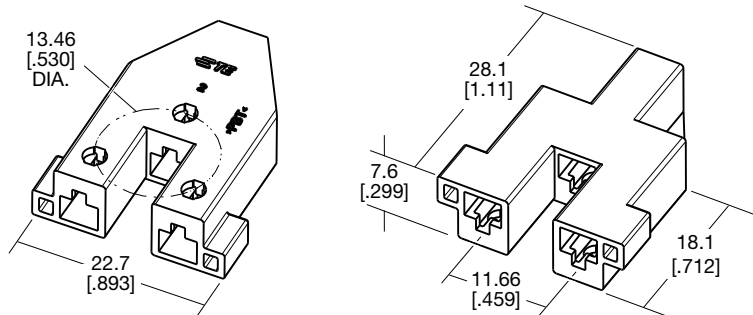
Air Conditioner  
Compressors

## ECONOMY CLUSTER BLOCKS

### 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	<a href="#">2825082-1</a>
			GWT 750°C and UL 94 V-0	Black	<a href="#">2825082-2</a>

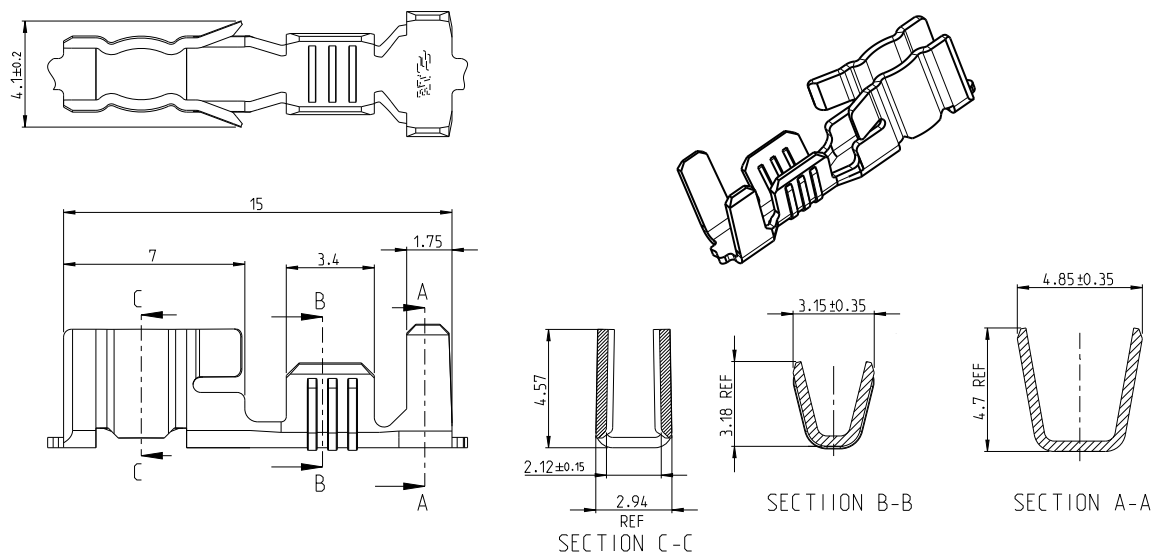
### CLUSTER BLOCK HOUSING DIMENSIONS



### 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> [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	<a href="#">2825083-1</a>	<a href="#">2150527-2</a>

### LEAD WIRE OVAL CONTACT DIMENSIONS



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