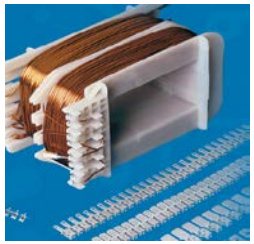
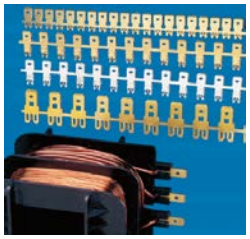
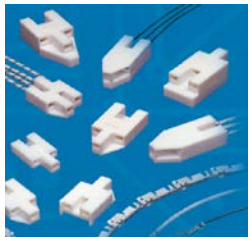
Americas Solutions

MAGNET WIRE PRODUCTS

Product Family		Description
MAG-MATE		MAG-MATE terminals are insulation displacement connection (IDC) terminals for magnet wire (copper and aluminum) terminations. They are available as poke-in, poke-in tab, splice, crimp wire barrel, solder post, quick connect tab, multispring, pin and receptacle styles.
SIAMEZE		SIAMEZE terminals are insulation displacement connection (IDC) terminals for interconnecting copper magnet wires, lead wires and other components. They are available as wire-to-wire, lead lok, quick disconnect tabs, posts, pin, and receptacle terminals.
AMPLIVAR		AMPLIVAR terminals and splices are crimp terminals specially designed to terminate magnet wires(both Copper and Aluminum), in combination with solid or stranded lead wire. They have machined, sharp edged serrations inside their crimp barrels.
Cluster Blocks		Cluster blocks are fully insulated, one piece housing connectors that allow quick electrical connection of sealed hermetic header pins on compressors. These connectors accept pins from one side, so reversing the polarity is prevented.

Selection criteria

Wire type (*)

Copper Wire

AWG / mm	Mini MAG-MATE	MAG-MATE	SIAMEZE	CMA [mm²]	AMPLIVAR
52-30 / 0.0254-0.198	✓	-	-	100-22000 [0.05-9.45]	✓
34-12 / 0.160-2.05	-	✓	✓		

Aluminum Wire

AWG / mm	Mini MAG-MATE	MAG-MATE	SIAMEZE	CMA [mm²]	AMPLIVAR
28-14.5 / 0.322 - 1.54	-	✓	-	400-22000 [0.26-9.45]	✓

Typ available interface (*)

Interface	Mini MAG-MATE	MAG-MATE	SIAMEZE	AMPLIVAR
RAST 2.5 - RAST 5	-	✓	-	-
FASTON	✓	✓	✓	✓
MATE-N-LOK	-	✓	✓	-
gen. PCB	✓	✓	✓	-
press-fit / soldering	✓	✓	✓	-
Lead wire	✓	✓	✓	✓
Ring tongue	-	-	-	✓

(*) for detailed / customized configurations, pls contact TE Engineering

EVERY CONNECTION COUNTS

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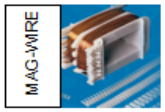
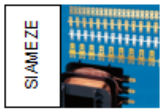
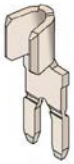


Typical Termination

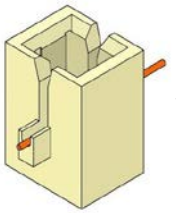




Poke-In Tab Terminal

Poke-In Terminal

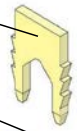
4 contact points to magnet wire



Up to two Magnet Wires of same diameter

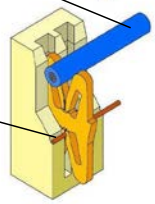
Cavities are either integrated into coil bodies or especially designed cavity housings.

Lead Lok Terminal with locking barbs providing lead wire retention

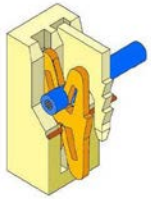


Lead wire (105° C PVC insulation)

Magnet Wire with **2 contact points**

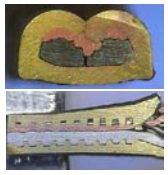


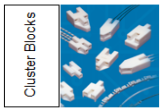
Moving Beam version contacts a variety of diameters.
Compliant Beam version contacts to magnet wires of the same diameter.



No need to pre-strip or solder.

Up to 3 magnet wires can be combined (both Copper and Aluminium magnet wire)

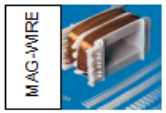




Receptacles connect wire to Hermetic Pin Header.
Receptacles for Lead wire or Magnet Wire.
Impervious to Refrigerants or available in GWT.

Most Used Part Families and Part

Mini MAG-MATE: PN 1718165-1
300 Box Poke-In: PN 63658-1
PN 62833-1
PN 62420-1
PN 62935-1
187 Box Poke-In FASTON: PN 316300-4
PN 316300-5



Moving beam: PN 1601000-1
Wire Specific: PN 1601056-1
High Carry: PN 1601046-2
Wire2Blade: PN 1601075-1
Post Terminal with PC tab: PN 1601009-4

600-3000 CMA: PN 62304-2
1500-5000 CMA: PN 62306-2
3000-7000 CMA: PN 62308-2
7000-14000 CMA: PN 62310-2

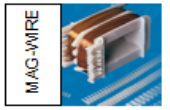
.090 Pin Size: PN 62131-6
.090 Pin Size: PN 171370-3
.090 Pin Receptacle: PN 170063-2
.090 Pin Receptable AMPLIVAR PN 353937-1
Pin Receptacle AMPLIVAR 1500-4200 CMA: PN 63454-1
.125 Pin Size: PN 360051-1
.125 Pin Receptacle: PN 316292-1

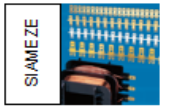
.090 Pin Size Economy Cluster Blocks
(PN 2825082-1 /-2, Pin Receptacle PN 2825083-1)

Low contact insertion force permits easy assembly (134 N max). High contact retention force helps assure connection continuity (80 N min.). 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.

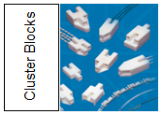
Applications by Product Family

Dishwasher motor
Refrigerator air moving fan
Oven door latch actuator
Oscillating/box/ceiling fans
Hair trimmers
Vacuum Cleaner
Compressor fan motors

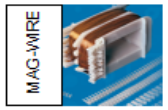




Refrigeration - compressors

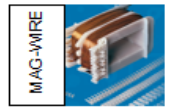


Washing machine motor
Heating circulating pumps



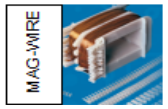
Microwave oven magnetron
Small water pumps (fish tank)

C-frame motors - air moving fans
Power tools - saws, drills, etc



Automotive

Cruise control units
Anti-lock brake units
Ignition coil - coil on plug
Ignition coil – coil pack
Air conditioner
EGR valve
Air management valves
Transmission control unit
Fuel pumps



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