

MVC 15KV

Amphenol Industrial Global Operations (AIGO) offers many products and solutions for the mining market. When looking for the best interconnect for the job, AIGO's MVC 15KV cable coupler with "Rapid-Couple®" technology will not leave you guessing. A hazardous industry by its very nature, mine sites must rely heavily on electrical equipment. The safe and reliable transfer of electricity throughout a site is a significant concern. The MVC 15KV incorporates patented RADSOK® contact technology for higher amperage (20% greater than a standard contact), lower T-rise, less resistance and reduced mating forces.

Engineered to Amphenol's high standards for ruggedness and reliability there is no field condition in the world that can impede the MVC. Our Rapid-Couple® interlock method makes for quick and easy mating and unmating. This provides for positive mating and secure fitting covers that repel water and soil while keeping the contacts uncontaminated. The MVC 15KV coupler has been remarkably designed with a wide range of features and benefits that makes this the coupler of choice for the mining industry and other markets.

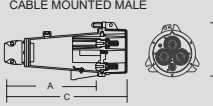
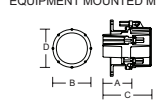
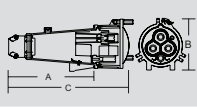
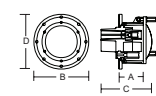
Features:

- Up to 600 Amps
- Cast aluminum housing standard, other materials available
- Bolt-on strain relief backend eliminates external threads
- Contact Termination: Solder
- Self-aligning housings
- All parts are replaceable, including contacts, and can be serviced easily in the field, equaling less downtime for repairs
- Rapid-Couple mating technology
- Incorporates patented RADSOK® contact technology leading to 20% more current in the same size contact, while reducing mating forces
- Medially-located grounded surface running through mounting plate
- Fire retardant insulators
- Weatherproof covers
- Industry-wide compatibility
- Coupler mating is a one person operation without the need for expensive tools or closing mechanisms



The Amphenol MVC 15KV coupler has a standard contact arrangement containing three insulated phase contacts, one ground contact, and one isolated ground check (pilot contact). Please consult the factory for other contact configurations.

| Technical Data | |
|----------------|-----------------------------------|
| Rated Current | Up to 600 Amps |
| Rated Voltage | 15,000V |
| Cable Size | Up to 500 MCM, 250mm ² |

| MVC 15KV Amp Coupler Weights and Dimensions | | | | | | |
|--|-------------------|-------------------|-------------------|---------------|-----------------|--------------------|
| Illustration (not to scale) | Dimensions | | | | | Weight |
| | A | B | C | D | E | |
| CABLE MOUNTED MALE  | 20 1/4" 514 mm | 10 1/2" 267 mm | 24 1/2" 622 mm | | | 38.0 lb 17.0 kg |
| EQUIPMENT MOUNTED MALE  | 4 3/4" 121 mm | 12 1/4" 311 mm | 9" 229 mm | 11" 279 mm | 1 1/2" 38 mm | 32.0 lb 14.5 kg |
| CABLE MOUNTED FEMALE  | 24" 610 mm | 11 1/2" 292 mm | 27" 686 mm | | | 38.0 lb 17.0 kg |
| EQUIPMENT MOUNTED FEMALE  | 5 1/4" 133 mm | 12 1/4" 311 mm | 8 1/4" 210 mm | 11" 279 mm | 4" 102 mm | 27.0 lb 12.3 kg |



| How to order | | | | | | | |
|------------------------------|---------|------------------------|------------------------------------|-------------------|----------------|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| MVC | 8 | P | 2 | P | C | W6 | (BL) |
| Product Line | Voltage | Body Type | Mounting | Contacts | Conductor Size | Entrance Fitting/Seal Size (Leave Blank for 600V or Equipment Mount) | Modifications |
| MVC Medium Voltage Connector | 15 15KV | P Plug R Receptacle | 1 Equipment Mount 2 Cable Mount | P Pin S Socket | See Table A | See Table B | K Key Interlock F Fiber Provision See Table C Powder Coating Body |

| Table A (Conductor Size) | |
|--------------------------|------|
| Conductor | Code |
| #4 AWG | A |
| #3 AWG | B |
| #2 AWG | C |
| #1 AWG | D |
| 1/0 AWG | E |
| 2/0 AWG | F |
| 3/0 AWG | G |
| 4/0 AWG | H |
| 250 MCM | I |
| 300 MCM | J |
| 350 MCM | K |
| 400 MCM | L |
| 450 MCM | M |
| 500 MCM | N |

| Table B (Entrance Fitting & Cable Seal) | | |
|---|-----------|------|
| Outside Cable Diameter | | Code |
| (mm) | (in) | |
| 20.9-22.1 | 0.82-0.87 | W1 |
| 22.4-23.9 | 0.88-0.94 | W2 |
| 24.2-25.7 | 0.95-1.01 | W3 |
| 26.0-26.9 | 1.02-1.06 | W4 |
| 27.2-28.5 | 1.07-1.12 | W5 |
| 28.8-31.8 | 1.13-1.25 | W6 |
| 32.1-34.8 | 1.26-1.37 | W7 |
| 35.1-38.1 | 1.38-1.50 | W8 |
| 38.4-41.2 | 1.51-1.62 | W9 |
| 41.5-44.5 | 1.63-1.75 | W10 |
| 44.8-47.5 | 1.76-1.87 | W11 |
| 47.8-50.8 | 1.88-2.00 | X1 |
| 51.0-53.9 | 2.01-2.12 | X2 |
| 54.2-57.2 | 2.13-2.25 | X3 |
| 57.5-60.2 | 2.26-2.37 | X4 |
| 60.5-63.5 | 2.38-2.50 | Y1 |
| 63.8-66.6 | 2.51-2.62 | Y2 |
| 66.9-69.9 | 2.63-2.75 | Y3 |
| 70.2-72.9 | 2.76-2.87 | Z1 |
| 73.2-76.2 | 2.88-3.00 | Z2 |
| 76.5-79.3 | 3.01-3.12 | Z3 |
| 79.6-82.6 | 3.13-3.25 | Z4 |
| 82.9-85.6 | 3.26-3.37 | Z5 |
| 85.9-88.9 | 3.38-3.50 | Z6 |

| Table C (Powder Coating Color) | |
|--------------------------------|------------------------|
| Color | Code |
| No Color | Leave Blank (Standard) |
| Blue | BL |
| Orange | OG |
| Red | RD |
| White | WH |

Other Markets: Tunneling, Utility & Shore Power

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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