



MVC 8KV

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.

Amphenol Industrial Global Operations (AIGO) offers many products and solutions for the mining market. The MVC 8KV incorporates patented RADSOK® contact technology for higher amperage (25% greater than a standard contact), lower T-rise, less resistance and reduced mating forces. When looking for the best interconnect for the job, AIGO's MVC 8KV cable coupler with "Rapid-Couple®" technology will not leave you guessing.

The MVC 8KV 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. 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. Engineered to Amphenol's high standards for ruggedness and reliability there is no field condition in the world that can impede the MVC.

Features:

- Up to 500 Amps
- Cast aluminum housing standard, other materials available
- Contact Termination: Solderless (Screw Termination)
- All parts are replaceable and can be serviced easily in the field, equaling less downtime for repairs
- Rapid-Couple® mating technology
- Incorporates patented RADSOK® contact technology leading to 25% more current in the same size contact, while reducing mating forces
- Combined strain relief and cable seal eliminating the need for hose clamps while providing waterproof protection
- Elongated ground plane which provides protection from phase to phase faults and flashovers
- Fully shielded phase conductors
- Coupler mating is a one person operation without the need for expensive tools or closing mechanisms



The Amphenol MVC 8KV coupler has a standard contact arrangement containing three insulated phase contacts, two ground contacts, and one isolated ground check (pilot contact). Please consult the factory for other contact configurations.

Technical Data	
Rated Current	Up to 500 Amps
Rated Voltage	8,000V
Cable Size	Up to 350 MCM, 185mm ²

MVC 8KV Coupler Weights and Dimensions					
Illustration (not to scale)	Dimensions				Weight
	A	B	C	D	
CABLE MOUNTED MALE 	17" 432 mm	9 1/2" 241 mm	21" 533 mm		32.0 lb 14.5 kg
EQUIPMENT MOUNTED MALE 	7 1/2" 191 mm	10 1/2" 267 mm	21" 533 mm	9 1/4" 235 mm	25.0 lb 11.5 kg
CABLE MOUNTED FEMALE 	20" 508 mm	9 1/2" 241 mm	23" 584 mm		34.0 lb 15.3 kg
EQUIPMENT MOUNTED FEMALE 	10 5/8" 272 mm	10 1/2" 267 mm	13 1/2" 343 mm	9 1/4" 235 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	8	8KV	P Plug	1	Equipment Mount	P Pin	See Table A	See Table B	K	Key Interlock
				R Receptacle	2	Cable Mount	S Socket			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

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

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

For further information on your individual application requirements, contact: Amphenol Corporation

North America:
Amphenol Industrial Operations
180 N. Freeport Drive, Plant 4
Nogales, AZ 85621
Tel: (520) 285-5130
Fax: (520) 285-5134

Email: rpedrazzini@amphenol-aio.com

Europe:
Amphenol Industrial Operations Europe
Via Barbaiana 5
1-20020 Lainate (MI) Italy
Tel: +39 02 93254.204
Fax: +39 02 93254.444

Email: info@amphenol-aio.com

Middle East:
Amphenol Middle East Enterprises FZE
Office C-37 PO Box 21107
Ajman Free Zone, UAE
Tel: +9716-7422494
Fax: +9716-7422941

Email: ameezfe@eim.ae

Asia:
Amphenol Technology (Zhuhai) Co., LTD
No.63, Xin Han Rd., San Zao Town,
Jin Wan District
Zhuhai City, China 519040
Tel: +0756-3989760
Fax: +0756-3989768
www.amphenol-industrial.com