

CABLE TYPE MP-GC, THREE CONDUCTORS ROUND POWER MINE FEEDER CABLES, EPR INSULATION 90 °C, FROM 5 kV TO 25 kV, WITH TWO GROUNDING CONDUCTORS AND ONE GROUND-CHECK CONDUCTOR, CHLORINATED POLYETHYLENE JACKET (CPE)



Description:

- 1-Annealed Copper Conductors class B.*
- 2-Extruded Conductor Shielding.
- 3-EPR (Ethylene-Propylene Rubber) insulation, natural color).
- 4-Extruded Insulation Shielding.
- 5-Combination annealed tinned copper . *
- 6-Colored Textile Thread over individual Phase Conductors.
- 7-Soft Copper ground check conductor.
- 8-Mylar tape.
- 9-Yellow EPR (Ethylene-Propylene Rubber) Insulated Ground Check Conductor .
- 10-Stranded Annealed Uninsulated Plain Bare Copper Ground Wires.*
- 11- Rubber-Faced Binder Tape.
- 12- Chlorinated Polyethylene (CPE) Jacket.**

*Available Annealed Tinned Copper Conductors, in order to protect it for sites with severe corrosion.

**Available jacket colors: Yellow, Orange, Green or Black

Purpose:

- Distribution system in medium voltage

Properties:

- High reliability
- Low moisture absorption
- Flexible conductors
- Excellent flexibility
- Excellent acid resistance
- Excellent alkaline substance resistance
- Excellent high temperature resistance
- Excellent resistance to mechanical abuse
- Excellent abrasión resistance
- Excellent moisture resistance
- Excellent resistance to flame propagation
- Excellent tensile strength properties
- Excellent sunlight resistance
- Excellent oil resistance
- Excellent resistance to flattening and compression
- Excellent resistance to mechanical mistreatment
- Excellent ozone resistance
- Excellent tear strength properties
- Excellent mechanical resistance
- Personnel security

Special features:

- Vulcane^{M.R.} mine power cable MP-GC are used to provide energy supply to mine power feeder in horizontal and vertical installations, the ground check conductor allows permanent monitoring of conductors connected to ground, providing maximum security to workers.

Standard:

- ICEA S 75-381

Voltage

- 5 kV
- 8 kV
- 15 kV
- 25 kV

Temperature rating:

- Normal - Operating 90 °C
- Emergency overload 130 °C
- Shortcircuit 250 °C

Type of Installation:

- Visible (on the ground)

Insulation compound:

- Ethylene-Propylene Rubber (EPR)

Jacket compound:

- Chlorinated Polyethylene (CPE)

Product certification:

- Mine Safety Health Administration (MSHA)

Quality certification:

- ISO 9001:2008 Quality system certified by Underwriters Laboratories (UL)

Ordering information:

- Vulcane^{M.R.} Mine Power Cable type MP-GC, Voltage range, conductors size, CPE jacket, color Jacket, length in feet and product number.

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Product number	Voltage (V)	Conductor size (AWG-kcmil)	Conductor cross section area (mm ²)	Power conductors	Conductor diameter (mm)	Insulation Thickness (mm)	Insulation diameter (mm)	Grounding conductors	Grounding conductor size (AWG-kcmil)	Grounding conductor cross section area (mm ²)	Ground check size (AWG)	Ground check diameter (mm)	Outside diameter (mm)	Approximate weight (lb/1000 ft)	Packing	Jacket color
17020102YA	8 000	350	177,00	3	15,54	2,92	22,83	2	2/0	67,40	8	3,61	65,60	6 445,2	REEL	BLACK
17020102ZA	8 000	400	203,00	3	16,53	2,92	23,82	2	3/0	85,00	8	3,61	67,73	7 254,2	REEL	BLACK
170201036A	8 000	450	228,00	3	17,62	2,92	24,91	2	3/0	85,00	8	3,61	70,08	7 835,5	REEL	BLACK
170201037A	8 000	500	253,00	3	18,51	2,92	25,80	2	4/0	107,00	8	3,61	74,87	8 901,3	REEL	BLACK
17020103SA	15 000	2	33,62	3	6,74	4,45	16,87	2	6	13,30	8	3,61	52,77	2 641,6	REEL	BLACK
17020103TA	15 000	1	42,41	3	7,52	4,45	17,66	2	5	16,76	8	3,61	54,45	2 933,3	REEL	BLACK
17020103UA	15 000	1/0	53,50	3	8,46	4,45	18,60	2	4	21,15	8	3,61	56,48	3 352,6	REEL	BLACK
17020103VA	15 000	2/0	67,40	3	9,47	4,45	19,61	2	3	26,67	8	3,61	58,66	3 750,4	REEL	BLACK
17020103WA	15 000	3/0	85,00	3	10,69	4,45	20,82	2	2	33,62	8	3,61	61,28	4 320,3	REEL	BLACK
17020103XA	15 000	4/0	107,00	3	11,98	4,45	22,11	2	1	42,41	8	3,61	64,05	4 931,1	REEL	BLACK
17020103OA	15 000	250	127,00	3	13,07	4,45	23,45	2	1/0	53,50	8	3,61	66,95	5 667,0	REEL	BLACK
17020103PA	15 000	300	152,00	3	14,35	4,45	24,74	2	1/0	53,50	8	3,61	69,72	6 285,9	REEL	BLACK
17020103QA	15 000	350	177,00	3	15,54	4,45	25,93	2	2/0	67,40	8	3,61	75,16	7 341,6	REEL	BLACK
17020103RA	15 000	400	203,00	3	16,53	4,45	26,92	2	3/0	85,00	8	3,61	77,29	8 129,2	REEL	BLACK
17020103YA	15 000	450	228,00	3	17,62	4,45	28,01	2	3/0	85,00	8	3,61	79,63	8 738,0	REEL	BLACK
17020103ZA	15 000	500	253,00	3	18,51	4,45	28,90	2	4/0	107,00	8	3,61	81,55	9 600,9	REEL	BLACK
17020104BA	25 000	2	33,62	3	6,74	6,60	21,24	2	6	13,30	8	3,61	62,17	3 361,3	REEL	BLACK
170201040A	25 000	1	42,41	3	7,52	6,60	22,02	2	5	16,76	8	3,61	63,86	3 669,8	REEL	BLACK
170201041A	25 000	1/0	53,50	3	8,46	6,60	22,96	2	4	21,15	8	3,61	65,89	4 052,2	REEL	BLACK
170201042A	25 000	2/0	67,40	3	9,47	6,60	23,97	2	3	26,67	8	3,61	68,06	4 552,1	REEL	BLACK
170201043A	25 000	3/0	85,00	3	10,69	6,60	25,19	2	2	33,62	8	3,61	70,69	5 132,7	REEL	BLACK
170201044A	25 000	4/0	107,00	3	11,98	6,60	26,48	2	1	42,41	8	3,61	76,33	6 095,0	REEL	BLACK
170201047A	25 000	250	127,00	3	13,07	6,60	27,82	2	1/0	53,50	8	3,61	79,22	6 796,6	REEL	BLACK
170201048A	25 000	300	152,00	3	14,35	6,60	29,11	2	1/0	53,50	8	3,61	82,00	7 514,3	REEL	BLACK

- NOTES:**
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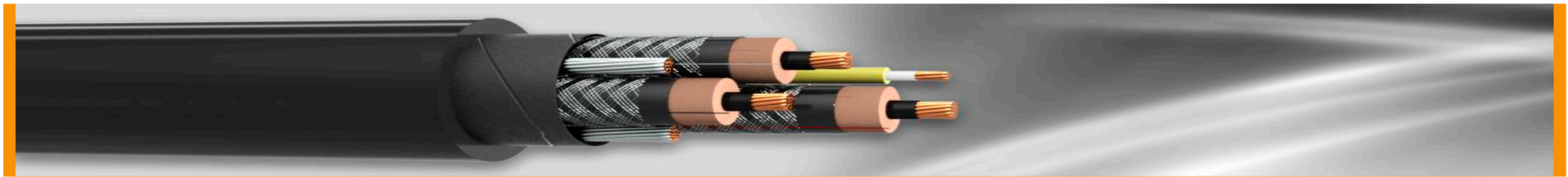
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Product number	Voltage (V)	Conductor size (AWG-kcmil)	Conductor cross section area (mm ²)	Power conductors	Conductor diameter (mm)	Insulation Thickness (mm)	Insulation diameter (mm)	Grounding conductors	Grounding conductor size (AWG-kcmil)	Grounding conductor cross section area (mm ²)	Ground check size (AWG)	Ground check diameter (mm)	Outside diameter (mm)	Approximate weight (lb/1000 ft)	Packing	Jacket color
17020102YA	8 000	350	177,00	3	15,54	2,92	22,83	2	2/0	67,40	8	3,61	65,60	6 445,2	REEL	BLACK
17020102ZA	8 000	400	203,00	3	16,53	2,92	23,82	2	3/0	85,00	8	3,61	67,73	7 254,2	REEL	BLACK
170201036A	8 000	450	228,00	3	17,62	2,92	24,91	2	3/0	85,00	8	3,61	70,08	7 835,5	REEL	BLACK
170201037A	8 000	500	253,00	3	18,51	2,92	25,80	2	4/0	107,00	8	3,61	74,87	8 901,3	REEL	BLACK
17020103SA	15 000	2	33,62	3	6,74	4,45	16,87	2	6	13,30	8	3,61	52,77	2 641,6	REEL	BLACK
17020103TA	15 000	1	42,41	3	7,52	4,45	17,66	2	5	16,76	8	3,61	54,45	2 933,3	REEL	BLACK
17020103UA	15 000	1/0	53,50	3	8,46	4,45	18,60	2	4	21,15	8	3,61	56,48	3 352,6	REEL	BLACK
17020103VA	15 000	2/0	67,40	3	9,47	4,45	19,61	2	3	26,67	8	3,61	58,66	3 750,4	REEL	BLACK
17020103WA	15 000	3/0	85,00	3	10,69	4,45	20,82	2	2	33,62	8	3,61	61,28	4 320,3	REEL	BLACK
17020103XA	15 000	4/0	107,00	3	11,98	4,45	22,11	2	1	42,41	8	3,61	64,05	4 931,1	REEL	BLACK
17020103OA	15 000	250	127,00	3	13,07	4,45	23,45	2	1/0	53,50	8	3,61	66,95	5 667,0	REEL	BLACK
17020103PA	15 000	300	152,00	3	14,35	4,45	24,74	2	1/0	53,50	8	3,61	69,72	6 285,9	REEL	BLACK
17020103QA	15 000	350	177,00	3	15,54	4,45	25,93	2	2/0	67,40	8	3,61	75,16	7 341,6	REEL	BLACK
17020103RA	15 000	400	203,00	3	16,53	4,45	26,92	2	3/0	85,00	8	3,61	77,29	8 129,2	REEL	BLACK
17020103YA	15 000	450	228,00	3	17,62	4,45	28,01	2	3/0	85,00	8	3,61	79,63	8 738,0	REEL	BLACK
17020103ZA	15 000	500	253,00	3	18,51	4,45	28,90	2	4/0	107,00	8	3,61	81,55	9 600,9	REEL	BLACK
17020104BA	25 000	2	33,62	3	6,74	6,60	21,24	2	6	13,30	8	3,61	62,17	3 361,3	REEL	BLACK
170201040A	25 000	1	42,41	3	7,52	6,60	22,02	2	5	16,76	8	3,61	63,86	3 669,8	REEL	BLACK
170201041A	25 000	1/0	53,50	3	8,46	6,60	22,96	2	4	21,15	8	3,61	65,89	4 052,2	REEL	BLACK
170201042A	25 000	2/0	67,40	3	9,47	6,60	23,97	2	3	26,67	8	3,61	68,06	4 552,1	REEL	BLACK
170201043A	25 000	3/0	85,00	3	10,69	6,60	25,19	2	2	33,62	8	3,61	70,69	5 132,7	REEL	BLACK
170201044A	25 000	4/0	107,00	3	11,98	6,60	26,48	2	1	42,41	8	3,61	76,33	6 095,0	REEL	BLACK
170201047A	25 000	250	127,00	3	13,07	6,60	27,82	2	1/0	53,50	8	3,61	79,22	6 796,6	REEL	BLACK
170201048A	25 000	300	152,00	3	14,35	6,60	29,11	2	1/0	53,50	8	3,61	82,00	7 514,3	REEL	BLACK

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170201049A	25 000	350	177,00	3	15,54	6,60	30,29	2	2/0	67,40	8	3,61	84,56	8 325,4	REEL	BLACK
17020104AA	25 000	400	203,00	3	16,53	6,60	31,28	2	3/0	85,00	8	3,61	86,69	9 136,5	REEL	BLACK
170201045A	25 000	450	228,00	3	17,62	6,60	32,37	2	3/0	85,00	8	3,61	89,04	9 772,9	REEL	BLACK
170201046A	25 000	500	253,00	3	18,51	6,60	33,26	2	4/0	107,00	8	3,61	90,96	10 600,8	REEL	BLACK

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