

3/C CU 15KV 100% EPR/CPE RHINOPOWER™ Type MP-GC. MSHA Approved

Class B Copper conductors, Ethylene Propylene Rubber (EPR) 100% Insulation Level, Copper Tape Shield, Chlorinated Polyethylene (CPE) Jacket with Optional Reflective Stripes



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class B compact stranded bare copper per ASTM B3 and ASTM B496
- Conductor Shield:** Semi-conducting cross-linked copolymer
- Insulation:** Ethylene Propylene Rubber (EPR) 100% and 133% Insulation Level
- Insulation Shield:** Strippable semi-conducting cross-linked copolymer
- Copper Tape Shield:** Helically wrapped 5 mil copper tape with 25% overlap
- Grounding Conductors:** Two Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- Ground Check:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8 with yellow high strength, polypropylene insulation
- Filler:** Rubber Fillers as needed
- Reinforcement:** Tape and Reinforcing twine applied over the core for improved mechanical integrity and ease of stripping
- Jacket:** Black, mold cured, single layer, flame resistant, thermosetting Chlorinated Polyethylene (CPE). Alternate jacket colors available
- Reflective Stripe:** Highly visible reflective stripe embedded into the outer jacket to increase safety and help prevent cable runover (optional, contact your sales representative for part number)

APPLICATIONS AND FEATURES:

RHINOPOWER™ Type MP-GC mine power feeder cable is a heavy-duty power cable for use in stationary horizontal HV mine power distribution circuits, for permanent or semi-portable applications with power transmission in deep mines, surface mines, open pits, tunnels, in conduit or duct (not to exceed max rated voltage), and suitable for direct burial in wet or dry locations. For vertical drop requirements consult with factory application specialist.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B496 Compact Round Concentric-lay-standard copper
- ICEA S-75-381 Portable and Power Feeder Cables for Use in Mines
- MSHA Approved



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SAMPLE PRINT LEGEND:

SOUTHWIRE (R) RHINO™ BRAND CABLE # AWG 3/C COMPACT CU TYPE MP-GC 15000V 100% INS. LEVEL P-07-K140017 MSHA

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground Check Size	Ground Check Strands	Ground Check Insulation Thickness	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	inch	AWG	No.	mil	mil	inch	lb/1000ft
578046	2	3	7	0.268	175	0.654	8	7	45	140	1.88	2310
586665	1	3	19	0.299	175	0.685	8	7	45	140	1.98	2650
586565	2/0	3	19	0.376	175	0.762	8	7	45	140	2.15	3460
578797	4/0	3	19	0.475	175	0.861	8	7	45	140	2.40	4750
599635	250	3	37	0.52	175	0.906	8	7	45	140	2.50	5380
592497	350	3	37	0.616	175	1.002	8	7	45	140	2.75	6890
580833	500	3	37	0.736	175	1.122	8	7	45	170	3.10	9370

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Strand count meets minimum number per ASTM

Table 2 – Electrical and Engineering Data

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Capacitive Reactance	Inductive Reactance	Working Tension	Min Bending Radius	Allowable Ampacity In Air 90°C
AWG/Kcmil	Ω/1000ft	Ω/1000ft	MΩ*1000ft	MΩ/1000ft	lb	inch	Amp
2	0.164	0.205	0.048	0.044	454.000	22.6	164
1	0.130	0.163	0.045	0.043	572.000	23.8	187
2/0	0.082	0.103	0.038	0.040	910.000	25.8	246
4/0	0.052	0.065	0.032	0.037	1446.000	28.8	325
250	0.044	0.055	0.030	0.036	1709.000	30	359
350	0.031	0.039	0.026	0.034	2393.000	33	438
500	0.022	0.028	0.023	0.033	3418.000	37.2	536

* Inductive impedance is based on non-ferrous conduit with one diameter spacing.

Stock Number and Jacket Color

Size	Stock Number	Jacket Color
#2	6741859	Orange

