

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:

1. **Conductor:** Class B compact stranded bare copper per ASTM B3 and ASTM B496
2. **Conductor Shield:** Semi-conducting cross-linked copolymer
3. **Insulation:** Ethylene Propylene Rubber (EPR) 100% and 133% Insulation Level
4. **Insulation Shield:** Strippable semi-conducting cross-linked copolymer
5. **Copper Tape Shield:** Helically wrapped 5 mil copper tape with 25% overlap
6. **Grounding Conductors:** Two Class B compressed stranded bare copper per ASTM B3 and ASTM B8
7. **Ground Check:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8 with yellow high strength, polypropylene insulation
8. **Filler:** Rubber Fillers as needed
9. **Reinforcement:** Tape and Reinforcing twine applied over the core for improved mechanical integrity and ease of stripping
10. **Jacket:** Black, mold cured, single layer, flame resistant, thermosetting Chlorinated Polyethylene (CPE). Alternate jacket colors available
11. **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 Standard Specification for 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 Size	Ground Strands	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.	AWG	No.	mil	mil	inch	lb/1000ft
57804699	2	3	7	0.268	175	0.654	6	7	8	7	45	140	1.88	2310
58666599	1	3	19	0.299	175	0.685	5	7	8	7	45	140	1.98	2650
TBA	1/0	3	19	0.336	175	0.722	4	7	8	7	45	140	2.05	3000
58656599	2/0	3	19	0.376	175	0.762	3	7	8	7	45	140	2.15	3460
TBA	3/0	3	19	0.423	175	0.809	2	7	8	7	45	140	2.26	4020
57879799	4/0	3	19	0.475	175	0.861	1	19	8	7	45	140	2.40	4750
59963599	250	3	37	0.52	175	0.906	1/0	19	8	7	45	140	2.50	5380
TBA	300	3	37	0.57	175	0.956	1/0	19	8	7	45	140	2.64	6080
59249799	350	3	37	0.616	175	1.002	2/0	19	8	7	45	140	2.75	6890
TBA	400	3	37	0.659	175	1.045	3/0	19	8	7	45	140	2.92	7870
TBA	450	3	37	0.7	175	1.086	3/0	19	8	7	45	140	3.00	8470
58083399	500	3	37	0.736	175	1.122	4/0	19	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

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Cond. Number	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	No.	Ω/1000ft	Ω/1000ft	MΩ*1000ft	MΩ/1000ft	lb	inch	Amp
57804699	2	3	0.164	0.205	0.048	0.044	454.000	22.6	164
58666599	1	3	0.130	0.163	0.045	0.043	572.000	23.8	187
TBA	1/0	3	0.104	0.130	0.041	0.041	722.000	24.6	215
58656599	2/0	3	0.082	0.103	0.038	0.040	910.000	25.8	246
TBA	3/0	3	0.065	0.081	0.035	0.038	1147.000	27.1	283
57879799	4/0	3	0.052	0.065	0.032	0.037	1446.000	28.8	325
59963599	250	3	0.044	0.055	0.030	0.036	1709.000	30	359
TBA	300	3	0.037	0.046	0.028	0.035	2051.000	31.7	401
59249799	350	3	0.031	0.039	0.026	0.034	2393.000	33	438
TBA	400	3	0.027	0.034	0.025	0.034	2734.000	35	473
TBA	450	3	0.024	0.030	0.024	0.033	3075.000	36	504
58083399	500	3	0.022	0.028	0.023	0.033	3418.000	37.2	536

† Ampacity based on ICEA S-75-381 Table I-1 and is for a single isolated cable in air operated with an open-circuited shield at an ambient temperature of 40°C and a conductor temperature of 90°C



Stock Number and Jacket Color

Size	Stock Number	Jacket Color
#2	6741859	Orange

