Stock # : 569949 SPEC 47812

# 3/C CU 8KV 100% XLP/PVC RHINOPOWER™ Type MP-GC. MSHA Approved

Class B Copper conductors, Cross-Linked Polyethylene (XLP) 100% Insulation Level, Copper Tape Shield, Polyvinyl Chloride (PVC) Jacket, 90°C



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<sup>TM</sup> 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<sup>TM</sup> BRAND CABLE # AWG COMPACT CU 3/C TYPE MP-GC 8000V 100% INS. LEVEL 90°C P-07-K130025 MSHA





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## **Table 1 – Weights and Measurements**

Stoc Numb		Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground	Ground Check Size	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	inch	No. x AWG	AWG	mil	inch	lb/1000ft
5699	19 2/0	3	19	0.376	115	0.640	2 x 3	8	150	1.880	2723

All dimensions are nominal and subject to normal manufacturing tolerances

### 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	Ω/1000ft	lb	inch	Amp
2/0	0.081	0.102	0.036	0.034	910	22.5	243

<sup>\*</sup> Ampacities based upon ICEA S-75-381 Table I-1.





<sup>♦</sup> Cable marked with this symbol is a standard stock item

<sup>\*</sup> Strand count meets minimum number per ASTM

<sup>\*</sup> Inductive impedance is based on non-ferrous conduit with one diameter spacing.