3/C CU 5KV 100% & 133% XLPE/PVC RHINOPOWER™ Type MP-GC. MSHA Approved

Class B Copper conductors, Cross-Linked Polyethylene (XLP) 100% & 133% 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:** Cross-Linked Polyethylene (XLP) 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 Polyvinyl Chloride (PVC). 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 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 COMPACT CU 3/C TYPE MP-GC 5000V 100% INS. LEVEL 90°C P-07-K130025 MSHA

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground	Ground Check Size	Jacket Thickness	Approx. OD	Approx. Weight	Jacket Color
	AWG/ Kcmil	No.	No.	inch	mil	inch	No. x AWG	AWG	mil	inch	lb/1000ft	
577276	4	3	7	0.212	90	0.440	2 x 8	8	110	1.320	1158	BK
580827	2	3	7	0.268	90	0.478	2 x 6	8	115	1.565	1686	BK
592868	1	3	19	0.298	90	0.506	2 x 5	8	110	1.530	1779	BK
584648	1/0	3	19	0.336	90	0.546	2 x 4	8	160	1.630	2149	BK
TBA	4/0	3	19	0.475	90	0.691	2 x 1	8	140	2.000	3475	BK
TBA	250	3	37	0.520	90	0.736	2 x 1/0	8	140	2.130	4620	BK
578162	500	3	37	0.735	90	0.946	2 x 4/0	8	140	2.550	7416	BK

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
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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
4	0.258	0.325	0.049	0.038	285	15.8	122
2	0.162	0.204	0.039	0.035	453	18.7	159
1	0.128	0.162	0.036	0.034	572	18.3	184
1/0	0.102	0.128	0.033	0.033	722	19.5	211
4/0	0.052	0.065	0.024	0.032	1446	24.0	321
250	0.044	0.055	0.023	0.031	1709	25.6	355
500	0.022	0.030	0.017	0.028	3420	30.6	539

***** Ampacities based upon ICEA S-75-381 Table I-1.
***** Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

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