

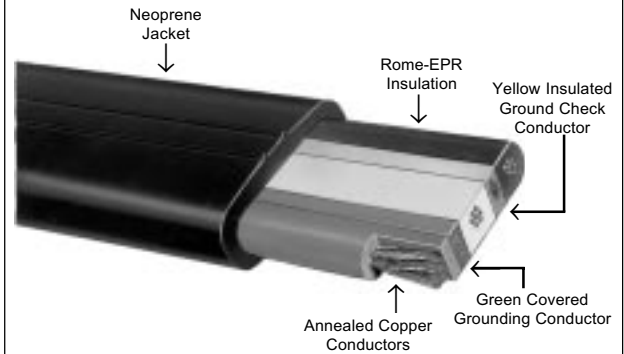
ROME PORTABLE POWER CABLE

Three-Conductor Flat - Type G-GC, 2000 Volts

APPLICATION: For portable trailing cable on ac shuttle cars and other mobile mining equipment, where the cable must withstand constant flexing and reeling. For use in circuits not exceeding 2000 volts, maximum conductor temperature of 90°C.

STANDARDS: Conforms to ICEA S-75-381 (NEMA WC8).

CONSTRUCTION: Three insulated conductors, each consisting of flexible stranded annealed tinned copper, color coded Rome-EPR ethylene-propylene rubber insulation. One covered grounding conductor of flexible stranded tinned annealed copper formed into a flat configuration. One ground check conductor of flexible stranded tinned annealed copper formed into a flat configuration and insulated. Three insulated conductors assembled parallel with grounding conductor between the white and red power conductors, the ground check conductor between the black and white power conductors, with reinforcing braid over assembly. Overall Neoprene jacket vulcanized in a metal mold. Embossed marking molded as an integral part of the jacket, including the inscription P-105-MSHA, indicating full compliance with Federal and State of Pennsylvania safety codes.



Size AWG	No. of Strands	Insulation Thickness Mils	Grounding Cond. Size AWG	Ground Check Size AWG	Nominal Diameter Inches	Approx. Net Weight Lb./1000 Ft.	Ampacity*	
							20°C Ambient	40°C Ambient
6	168	60	8	8	.67 x 1.69	950	93	79
4	259	60	7	8	.75 x 1.89	1255	123	104
3	329	60	6	6	.77 x 2.08	1500	142	120
2	259	60	5	6	.81 x 2.23	1655	163	138
1	329	80	4	6	.97 x 2.48	2060	190	161

*AMPACITY based upon continuous duty at 90°C conductor temperature, ambient temperature as indicated, cable in free air. For other ambient temperatures and when cables are used with one or more layers wound on a reel, use correction factors shown in Appendix H, ICEA S-75-381.

Information on this sheet subject to change without notice.

Specification

ROME PORTABLE POWER CABLE

Three-Conductor Flat - Type G-GC, 2000 Volts

1. SCOPE

- 1.1 This specification describes three-conductor flat Type G-GC portable power cable with Rome-EPR (ethylene-propylene rubber) insulation for use in circuits not exceeding 2000 volts at a maximum conductor temperature of 90°C. Cables are intended for use on equipment where a heavy power load is required, such as ac shuttle cars, continuous miners, cutting or loading machines, conveyors, drills or pumps.

2. STANDARDS

- 2.1 The following standard shall form a part of this specification:
 - 2.1.1 ICEA Pub. No. S-75-381 for Portable and Power Feeder Cables for Use in Mines and Similar Applications (NEMA WC58).

3. CONDUCTORS

- 3.1 Minimum Class H stranded, annealed, tinned copper per Part 2 of ICEA.

4. INSULATION

- 4.1 A homogeneous wall of Rome-EPR insulation shall be extruded over the conductor. The average thickness of the insulation shall be as specified in Table 3-13 of ICEA. The minimum thickness shall not be less than 90 percent of the specified average values.
- 4.2 Physical and electrical properties of the insulation shall be in accordance with Par. 3.15 of ICEA.

5. CIRCUIT IDENTIFICATION

- 5.1 Colored insulation coded black, white and red meeting the requirement of Par. 3.18 of ICEA.

6. GROUNDING CONDUCTOR

- 6.1 The grounding conductor shall be annealed tinned copper of not less than the size in Table 3-13 of ICEA for the corresponding power conductor size.
- 6.2 The grounding conductor shall have a green covering.

7. GROUND CHECK CONDUCTOR

- 7.1 The ground check conductor shall be as given in Table 3-13 of ICEA for the corresponding power conductor size. A minimum of 49 strands of annealed tinned copper shall be used.
- 7.2 The conductor shall have a yellow insulation.

8. ASSEMBLY

- 8.1 Three insulated conductors are laid parallel with the grounding conductor in a vertical position between the white and red conductors and with the ground check conductor in a vertical position between the black and white conductors.

9. REINFORCING BRAID

- 9.1 An open braid is applied over the assembly to facilitate adhesion between the inner core and jacket.

10. JACKET

- 10.1 A thermosetting jacket shall be extruded over the assembly in accordance with Par. 3.21 of ICEA.
- 10.2 The jacket shall be an extra heavy-duty Neoprene jacket meeting the requirements of Table 3-3 of ICEA.

11. COMPLETED CABLE

- 11.1 The nominal outside diameter shall be in accordance with Table 3-13 of ICEA.
- 11.2 The tolerances shall be within the requirements of Par. 3.22.2 of ICEA.

12. SURFACE MARKING

- 12.1 All cable shall have an embossed print legend showing manufacturer, cable type, size, voltage, MSHA and State of Pennsylvania approval number.

13. TESTS

- 13.1 Cable shall be tested in accordance with ICEA.