

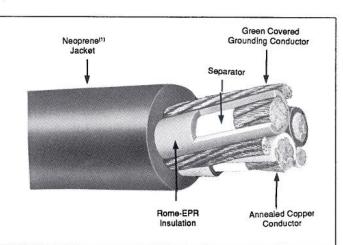
ROME PORTABLE POWER CABLE

Two- and Three-Conductor Round - Type G, 2000 Volts

APPLICATION: Heavy duty portable power cable for use with mobile mining equipment, such as continuous miners, cutting or loading machines, conveyors, drills or pumps. For use in circuits not exceeding 2000 volts, maximum conductor temperature of 90°C. Two conductor-for single phase ac or dc where grounding is required. Three conductor - for three phase ac where grounding is required.

STANDARD: Conforms to ICEA S-75-381 (NEMA WC58).

CONSTRUCTION: Two or three insulated conductors each consisting of flexible stranded annealed coated copper, color coded Rome-EPR ethylene-propylene rubber insulation. Two or three insulated conductors cabled together with one green covered uninsulated grounding conductor in each valley. Overall two layer reinforced 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 or kcmil	No. of Strands	Insulation Thickness Mils	Two Conductor				Three Conductor			
			Grounding Cond. Size AWG	Nominal Diameter Inches	Approx. Net Wt. Lb./1000 Ft.	Ampacity * 40°C Ambient	Grounding Cond. Size AWG	Nominal Diameter Inches	Approx. Net Wt. Lb./1000 Ft.	Ampacity * 40°C Ambient
_	400									
8	133	60	10	.81	540	72	10	.91	590	59
6	168	60	10	.93	640	95	10	1.01	760	79
4	259	60	8	1.08	890	127	8	1.17	1070	104
3	329	60	6	1.17	1060	145	8	1.24	1280	120
2	259	60	6	1.27	1290	167	8	1.34	1530	138
1	329	80	5	1.44	1650	191	7	1.51	1890	161
1/0	259	80	4	1.52	2180	217	6	1.65	2320	186
2/0	329	80	3	1.65	2320	250	5	1.75	2700	215
3/0	418	80	2	1.77	2720	286	4	1.89	3270	249
4/0	532	80	1	1.92	3300	328	4 3 2	2.04	3970	287
250	427	95	1/0	2.10	3730	363	2	2.39	5080	320
300	427	95	1/0	2.22	4410	400	1	2.56	6080	357
350	427	95	2/0	2.36	5280	436	1	2 68	7140	394
	(CONT.)		1777		533000000000000000000000000000000000000		1/0		7780	430
	V1020200000	95.55	0.77.0.75	2733222	23.55 (2).50				19.09.000	460
	11.000000000		N (1 1775) (1776)		100000000000000000000000000000000000000		0230300			487
350 400 450 500	427 427 427 427 427 427	95 95 95 95 95	1/0 2/0 3/0 3/0 4/0	2.22 2.36 2.47 2.60 2.70	5280 5690 6210 6740	400 436 470 497 524	1 1 1/0 1/0 2/0	2.56 2.68 2.82 2.94 3.03	714	10 30 30

^{*} AMPACITY based upon continuous duty at 90°C conductor temperature, 40°C ambient temperature, 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.

⁽¹⁾Hypalon jacket may also be supplied.



Specification

ROME PORTABLE POWER CABLE

Two- and Three-Conductor Round - Type G, 2000 Volts

1. SCOPE

1.1 This specification describes two- or three-conductor round Type G 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 mining equipment, portable generator leads, welders, and power supplies on barges.

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, coated 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 3-8 for two-conductor and Table 3-9 for three-conductor of ICEA. The minimum thickness shall be not 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 meeting the requirements of Par. 3.18 of ICEA.

6. GROUNDING CONDUCTORS

- 6.1 The grounding conductors shall be annealed coated copper of not less than the size and number of wires in Table 3-24 of ICEA for the corresponding power conductor sizes.
- 6.2 Each grounding conductor shall have a green covering.

7. ASSEMBLY

- 7.1 The conductors shall be twisted together with a left-hand lay meeting the requirements of Table 3-5 of ICEA. Suitable fillers shall be used to produce an essentially round cross-section in the completed cable.
- 7.2 A binder tape shall be helically applied over the filled cable assembly.

8. JACKET

- 8.1 A two-layer reinforced thermosetting jacket shall be extruded over the assembly in accordance with Par. 3.21 of
- 8.2 The jacket shall be an extra-heavy duty Neoprene or Hypalon meeting the regirements of Table 3-3 of ICEA.

9. COMPLETED CABLE

- 9.1 The nominal outside diameter shall be in accordance with Table 3-8 for two-conductor or Table 3-9 for three conductor of ICEA.
- 9.2 The tolerances shall be within the requirements of Par. 3.22.2 of ICEA.

10. SURFACE MARKING

10.1 All cable shall have an embossed print legend showing manufacturer, cable type, size, voltage, and Mine Safety and Health Administration (MSHA) Approval Number.

11. TESTS

11.1 Cable shall be tested in accordance with ICEA.