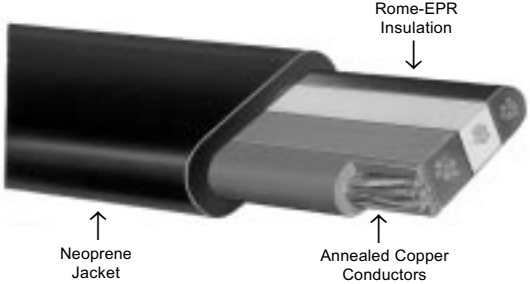


## ROME PORTABLE POWER CABLE

### Four-Conductor Flat - Type W, 2000 Volts

<p><b>APPLICATION:</b> 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.</p> <p><b>STANDARDS:</b> Conforms to ICEA S-75-381 (NEMA WC58).</p> <p><b>CONSTRUCTION:</b> Four insulated conductors, each consisting of flexible stranded annealed tinned copper, color coded Rome-EPR ethylene-propylene rubber insulation, assembled parallel 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.</p>					 <p>Labels in diagram:          ↑ Neoprene Jacket          ↓ Rome-EPR Insulation          ↑ Annealed Copper Conductors</p>	
Size AWG	No. of Strands	Insulation Thickness Mils	Nominal Diameter Inches	Approx. Net Weight Lb./1000 Ft.	Ampacity*	
					20°C Ambient	40°C Ambient
6	168	60	.68 x 1.71	890	93	79
4	259	60	.76 x 1.91	1240	123	104
3	329	60	.78 x 2.10	1580	142	120
2	259	60	.82 x 2.25	1715	163	138

\*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

#### Four-Conductor Flat - Type W, 2000 Volts

#### **1. SCOPE**

- 1.1 This specification describes four-conductor flat Type W 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, 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 3-14 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 coded black, white, red and green meeting the requirement of Par. 3.18 of ICEA.

#### **6. ASSEMBLY**

- 6.1 Four insulated conductors laid parallel with the color sequence black, white, red, green.

#### **7. REINFORCING BRAID**

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

#### **8. JACKET**

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

#### **9. COMPLETED CABLE**

- 9.1 The nominal outside diameter shall be in accordance with Table 3-14 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, MSHA and State of Pennsylvania approval number.

#### **11. TESTS**

- 11.1 Cable shall be tested in accordance with ICEA.