

PORTABLE POWER CABLE

Type W - Flat 2/C

MSHA Listed
OSHA Acceptable

Portable Power Cable Flat Twin - Type W, 2000 Volts

APPLICATIONS

This specification describes two-conductor flat Type W portable power cable with 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 dc shuttle cars and other mobile mining equipment.

STANDARDS

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

CONSTRUCTION

Conductors

Minimum Class H stranded annealed coated copper per Part 2 of ICEA.

Insulation

A homogeneous wall of EPR insulation shall be extruded over the conductor. The average thickness of the insulation shall be specified in Table 3-7 of ICEA. The minimum thickness shall be not less than 90 percent of the specified average values. Physical and electrical properties of the insulation shall be in accordance with Par. 3.15 of ICEA.

Circuit Identification

Colored insulation with one conductor black and one conductor white meeting the requirements of Par. 3.18 of ICEA.

Reinforcing Braid

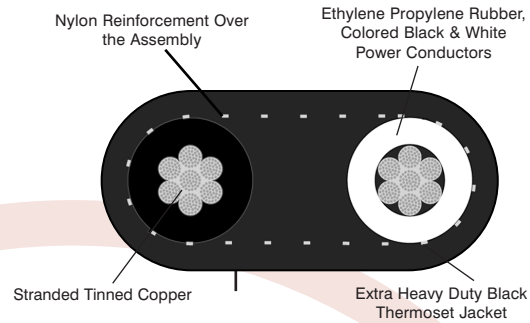
Each conductor shall have an open braid to facilitate adhesion between the insulated conductor and jacket.

Jacket

Two insulated conductors are laid parallel and a thermosetting jacket shall be extruded over the assembly in accordance with Par. 3.21 of ICEA.

Cable Identification

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



PART NUMBER	SIZE AWG	STRANDING	INSULATION THICKNESS Mils	NOMINAL DIAMETER Inches	AMPACITY*		SHIP WT. LBS./M FT.
					20°C Ambient	40°C Ambient	
2-CONDUCTOR							
05-0863	8	133	60	.51 x .84	85	72	340
05-0865	6	168	60	.56 x .93	112	95	425
05-0867	4	259	60	.61 x 1.05	150	127	565
05-0869	3	329	60	.68 x 1.14	171	145	690
05-0871	2	259	60	.73 x 1.24	197	167	830
05-0873	1	329	80	.81 x 1.40	225	191	1050
05-0875	1/0	259	80	.93 x 1.51	256	217	1290
05-0877	2/0	329	80	.99 x 1.51	295	250	1570
05-0879	3/0	413	80	1.03 x 1.77	337	286	1730
05-0881	4/0	532	80	1.10 x 1.89	387	328	2200

*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 is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.



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