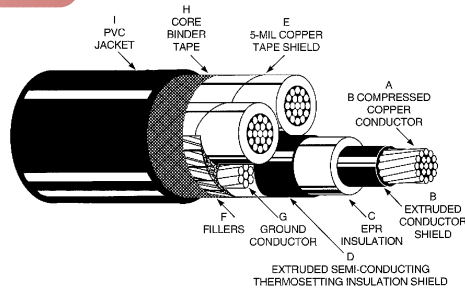


DESCRIPTION:

- 3 copper conductors
- Thermosetting conductor shield
- EPR insulation
- Thermosetting insulation shield
- Tape shield
- Copper ground wire
- PVC Jacket



PWC Catalog #	Size	Conductor Diameter	Grd. Cond. Size AWG	Extruded Insulation Shield Diameter	Jacket Thickness	Approx. O.D.	Approx. Net Weight	Allowable Ampacities+	
	AWG or kcmil			inch	inch	inch	inch	lbs./Mft.	Duct
03-0349	2	0.283	6	0.623	0.110	1.551	1575	160	165
03-0350	1	0.322	4	0.663	0.110	1.637	1836	185	185
03-0351	1/0	0.362	4	0.703	0.110	1.787	2227	210	215
03-0352	2/0	0.405	4	0.743	0.110	1.873	2570	235	245
03-0353	3/0	0.456	3	0.793	0.110	1.981	3006	270	280
03-0354	4/0	0.512	3	0.848	0.110	2.100	3546	305	320
03-0355	250	0.558	3	0.905	0.110	2.231	4038	335	350
03-0356	350	0.661	2	1.008	0.110	2.457	5240	400	430
03-0357	500	0.790	1	1.133	0.140	2.780	7103	485	525
03-0358	750	0.968	1/0	1.320	0.140	3.185	9958	585	635

+ Ampacities are based on the NEC 1999 Edition. Duct ampacities are based on Table 310-79 three conductors within an overall covering in one underground duct, 105°C conductor, 20°C earth ambient temperature. Conduit in air ampacities are based on Table 310-75 three cables within an overall covering in isolated conduit in air, 105°C conductor, 40°C ambient.

5kV - 8kV Type MV-105 CABLE CONSTRUCTION

Conductor	The conductor shall be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA Part 2, Section 2.1 and 2.5.
Conductor Shield	The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer, which shall be firmly bonded to the insulation. The thickness shall be in accordance with the referenced standards.
Insulation	The insulation shall be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The average thickness shall be 0.115" and the minimum spot thickness shall be not less than 90% of the average thickness.
Insulation Shield	The insulation shall be shielded with an extruded semi-conducting thermosetting polymeric layer which shall be identified as semi-conducting. Over this layer shall be applied a helically wrapped 5-mil copper tape.
Grounding Conductor	The ground conductor shall be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
Assembly	The insulated and shielded power conductors shall be cabled round with fillers and with a grounding conductor in one outer interstice and covered with a binder tape.
Jacket	The cable shall be covered with a black PVC jacket conforming to the requirements specified for polyvinyl chloride in ICEA. The average thickness shall be in accordance with the referenced standards and the minimum spot thickness shall be not less than 80% of the average thickness. The jacket will be sunlight resistant and will meet the requirements of the IEEE 1202.

APPLICATIONS:

- Aerial installations
- Direct buried
- Metal racks
- Open trays
- Troughs or raceway

These cables are capable of operating continuously at maximum conductor temperature of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 5,000V, 133% (grounded system) and 8,000V, 100% insulation levels (grounded system).

SCOPE:

This specification covers three conductor EPR (ethylene propylene rubber) insulated, shielded, thermoplastic jacketed power cables with grounding conductor for use in aerial installations, metal racks, open trays, troughs, or continuous rigid cable supports. These cables are capable of operating continuously at a temperature of 105°C for normal operations, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 8,000V, 100% (grounded system) and 5000V, 133% insulation levels (ungrounded system).

SPECIFICATIONS:

Manufactured and tested in accordance with the latest revisions of ICEA Pub. No. S-68-516, NEMA Pub. No. WC8, AEIC No. 6, and UL 1072.

