

## VW-1 Rated EPR Insulation 600 Volt 90°C Hypalon\* Jacket

### SCOPE:

This specification covers power cables with two, three, and four conductor cables having XHHW-2 (EPR) insulation, one uninsulated ground wire, and an overall gas/vapor-tight Hypalon\* jacket; conforming to Article 318 "Cable Trays" and Article 340 "Power and Control Cable Type TC" of the 1996 National Electric Code, and Standard 1277 of Underwriters Laboratories, Inc. They meet the requirements of the ICEA T-29-520 and T-30-520 flame tests as well as the 70,000 BTU "Cable Tray Propagation Test" per IEEE-383 and show reserve capabilities by also passing the 210,000 BTU flame test. Rated 600 volts, 90°C wet and dry. They also meet the CSA FT4 and the IEEE 1202 70,000 BTU flame tests.

### APPLICATIONS:

UL listed and OSHA acceptable. Recognized for use in Class 1 or 2, Division 2 hazardous locations and for installation in trays, wireways, troughs, channels, ducts and conduit. Specifically approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required. Designed to supply power to motors, or for connection to other power devices.

### CONSTRUCTION:

#### CONDUCTORS

Coated annealed copper per ASTM B-3 and B-189

#### Sizes 8 thru 2 AWG

Concentric, compressed stranded, class B (7 strands) per ASTM B-8, and UL-44 paragraph 12.6

#### Sizes 1 thru 4/0 AWG

Concentric, compressed stranded, class B (19 strands) per ASTM B-8 and UL-44 paragraph 12.6

#### Sizes 250 thru 500 MCM

Concentric, compressed stranded, class B (37 strands) per ASTM B-8 and UL-44 paragraph 12.6

(An opaque separator is applied between the conductor and insulation to facilitate stripping).

### INSULATION:

EPR - UL-44 class XL compound and ICEA S-68-516 part 3; thickness - UL-44 table 15.3 and ICEA S-68-516 part 3 table 3-1 column B

### GROUND WIRE:

#### Sizes 10 thru 2 AWG

Coated annealed copper per ASTM B-3 and B-189; concentric stranded, class B (7 strands) per ASTM B-8 and UL-1277 section 6

### CABLING:

Two or more conductors and one ground wire are assembled round with fillers as needed. A tape binder is applied over the assembly.

### OVERALL JACKET:

Gas/vapor-tight heavy-duty, flame and sunlight resistant Hypalon\* (black) per UL-1277 table 10.1 and ICEA S-68-516 part 4 paragraph 4.4.10. Thickness - Specified herein

### COLOR CODING:

Black insulation with ICEA Method 4 printed numbers.

PART NUMBER	AWG SIZE	NUMBER OF CONDS.	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	PART NUMBER	AWG SIZE	NUMBER OF CONDS.	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)
03-0175 03-0176 03-0177	8 AWG w/10 AWG Ground	3	60	.660	390	03-0190 03-0191 03-0192	2/0 AWG w/6 AWG Ground	3	80	1.350	2025
03-0178 03-0179 03-0180	6 AWG w/8 AWG Ground	3	60	.745	530	03-0193 03-0194 03-0195	4/0 AWG w/4 AWG Ground	3	80	1.580	3000
03-0181 03-0182 03-0183	4 AWG w/8 AWG Ground	3	80	.885	790	03-0196 03-0197 03-0198	250 MCM w/4 AWG Ground	3	110	1.780	3575
03-0184 03-0185 03-0186	2 AWG w/6 AWG Ground	3	80	1.015	1130	03-0199 03-0200 03-0201	350 MCM w/3 AWG Ground	3	110	2.010	4860
03-0187 03-0188 03-0189	1/0 AWG w/6 AWG Ground	3	80	1.245	1620	03-0202 03-0203 03-0204	500 MCM w/2 AWG Ground	3	110	2.295	6620

\*Hypalon is a registered DuPont trademark for chlorosulfonated polyethylene (CSPE).

The data listed above is approximate and subject to normal manufacturing tolerances. Specifications are subject to change without notice.

