

# TC CONTROL CABLE EPR/HYPALON

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

### SCOPE:

This specification covers multiconductor cables having stranded, coated copper conductors; flame resistant ethylene propylene rubber (EPR) insulation showing a thermal life expectancy in excess of 40 years at a service temperature of 90°C; and a heavy duty, flame and sunlight resistant gas/vapor-tight Hypalon\* jacket. Cables conform to Article 318 "Cable Trays" and Article 340 "Power and Control Cable Type TC" of the 1999 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 dry and 75°C wet. 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 and aerially where supported by a messenger. Specifically approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required. Designed for control, power, lighting, telemetering, signals and relay or traffic control where low loss, high temperature insulation is specified.

### CONSTRUCTION:

#### CONDUCTORS

##### Sizes 18, 16, 14, 12, AND 10 AWG

Coated, annealed copper per ASTM B-33 and B-189

Concentric stranded, class B (7 strands) per ASTM B-8, UL-44 paragraph 12.4 and UL-62 paragraph 10.2

(A suitable separator is applied between the conductor and insulation to facilitate stripping).

#### INSULATION:

Flame resistant EPR

**Sizes 18 and 10 AWG:** UL-1277 and ICEA S-73-532 part 3

Thickness

**Sizes 18 and 16 AWG:** UL-1277 and ICEA S-73-532 part 3 table 3-1 column B

#### CABLING:

Three or more conductors are assembled round with suitable fillers as needed. A flame resistant, non-hygroscopic and non-wicking tape binder is applied over the assembly. Two conductors are assembled flat parallel (round, with suitable fillers as needed, is available upon request).

#### OVERALL JACKET:

Gas/vapor-tight heavy duty, flame and sunlight resistant Hypalon\* (black) per UL-1277 table 10.1

#### COLOR CODING:

ICEA Method 1 using solid colors with stripes in accordance with Table E-2.

#### CONSTRUCTION OPTIONS:

Consult factory for specifications on cables with neoprene CPE or Low Smoke Polyolefin jackets, and cables with an aluminum/polyester tape shield.

\*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.



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