



Tray Control Cable FR-EPR VW-1 / CPE 600V

APPLICATIONS

For use as multi-conductor Type TC tray cable rated 600 volts, where flame retardance, and moisture/chemical resistance is critical. Cables are recommended for operation at 90°C maximum continuous conductor temperature in wet or dry locations. The cables are specifically approved for installation in cable trays in accordance with Article 336 of the NEC and may be used in Class I remote-control and signaling circuits per Article 725 of the Code. Cables may be installed in air, ducts or conduits, tray or trough, and are also suitable for direct burial.

STANDARDS

Cables meet or exceed all applicable requirements of the following standards:

- ASTM B-8, Standard Specification for Concentric lay-stranded copper conductor, hard, medium-hard, or soft.
- ASTM B-33, Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical purposes.
- Underwriters Laboratories Standard 1277, Type TC Power and Control Cables.
- ICEA S-73-532/NEMA WC 57, Standard for Control, Thermocouple Extension, and Instrumentation Cables
- IEEE Standard 383, 70,000 BTU/hr Flame Test
- IEEE-1202/CSA FT4, 70,000 BTU/hr Flame Test.
- ICEA T-29-520, 210,000 BTU/hr Flame Test.

CONSTRUCTION

- Conductor: Class B stranded tin coated annealed copper.
- Insulation: Extruded flame-retardant ethylene propylene rubber compound, (EPR) Type XHHW-2, VW-1 rated.
- Circuit Identification: Appendix E, Method 1 – Colored Compounds with Tracers per Table E-2 of ICEA S-73-532.
- Assembly: Two conductor cable shall be flat without separator tape, unless otherwise specified. For three or more conductors, the insulated color coded conductors shall be cabled together with nonhygroscopic fillers, as needed to form a round core. A suitable binding tape shall be applied over the cable assembly.
- Overall Jacket: Flame-retardant, sunlight resistant, chlorinated polyethylene compound (CPE).

OPTIONS

- Overall Shield: Uncoated Copper tape shield, available upon request.

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Tray Control Cable FR-EPR VW-1 / CPE 600V

Multi-Conductor EPR Insulation, CPE Jacket, 600 Volts

Size (AWG / kcmil)	Number of Conductors	Thickness Insulation (Mils)	Thickness Overall Jacket (Mils)	Overall Diameter (Inches)	Net Weight (lbs/1000ft)
14*	2	30	45	0.235 x 0.365	68
14	3	30	45	0.390	88
14	4	30	45	0.425	109
14	5	30	45	0.458	131
14	7	30	45	0.505	178
14	10	30	60	0.650	272
14	12	30	60	0.685	303
14	15	30	60	0.758	370
14	19	30	60	0.815	450
14	25	30	80	0.955	620
14	37	30	80	1.130	865
12*	2	30	45	0.250 x 0.410	90
12	3	30	45	0.435	120
12	4	30	45	0.475	152
12	5	30	45	0.513	185
12	7	30	60	0.600	258
12	9	30	60	0.683	330
12	12	30	60	0.770	420
12	15	30	60	0.870	513
12	19	30	80	0.955	668
12	25	30	80	1.090	865
12	37	30	80	1.265	1245
10*	2	30	45	0.275 x 0.460	124
10	3	30	45	0.485	164
10	4	30	60	0.565	225
10	5	30	60	0.605	270
10	7	30	60	0.665	360
10	9	30	60	0.768	448
10	12	30	80	0.905	620
10	15	30	80	0.995	755
10	19	30	80	1.070	938
10	25	30	80	1.225	1203
10	37	30	80	1.425	1728

* Flat Construction.

Dimensions and weights shown are nominal, subject to industry tolerances.

Other constructions are available upon request.

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