

TC POWER CABLE XLP/PVC

VW-1 Rated XLP Insulation 600 Volt 90°C PVC Jacket

SCOPE:

This specification covers power cables with two, three, and four conductor cables having XHHW-2 (XLP) insulation, one uninsulated ground wire, and an overall gas/vapor-tight polyvinyl chloride (PVC) jacket; conforming 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 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

Bare, soft annealed copper per ASTM B-3

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:

Cross-linked polyethylene - UL-44 class XL compound and ICEA S-66-524 part 3

Thickness - UL-44 table 15.3 and ICEA S-66-524 part 3 table 3-1 column B

GROUND WIRE:

Sizes 8 thru 2 AWG

Bare, soft annealed copper per ASTM B-3; 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 Polyvinyl Chloride (black); UL-1277 table 10.1 and ICEA S-66-524 part 4 paragraph 4.1.1; 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)
03-0133	8 AWG	2	60	.620	258	03-0154	3/0 AWG	2	80	1.366	1601
03-0134	w/10 AWG	3	60	.660	327	03-0155	w/4 AWG	3	80	1.455	2117
03-0135	Ground	4	60	.719	403	03-0156	Ground	4	80	1.609	2774
03-0136	6 AWG	2	60	.703	352	03-0157	4/0 AWG	2	80	1.483	1869
03-0137	w/8 AWG	3	60	.745	461	03-0158	w/4 AWG	3	80	1.580	2658
03-0138	Ground	4	60	.818	576	03-0159	Ground	4	110	1.810	3503
03-0139	4 AWG	2	60	.796	471	03-0160	250 MCM	2	80	1.613	2441
03-0140	w/8 AWG	3	80	.885	679	03-0161	w/4 AWG	3	110	1.780	3352
03-0141	Ground	4	80	.971	849	03-0162	Ground	4	110	1.968	4206
03-0142	2 AWG	2	80	.957	721	03-0163	300 MCM	2	110	1.784	2773
03-0143	w/6 AWG	3	80	1.015	976	03-0164	w/3 AWG	3	110	1.900	4087
03-0144	Ground	4	80	1.118	1246	03-0165	Ground	4	110	2.101	4926
03-0145	1 AWG	2	80	1.087	891	03-0166	350 MCM	2	110	1.887	3101
03-0146	w/6 AWG	3	80	1.155	1141	03-0167	w/3 AWG	3	110	2.010	4364
03-0147	Ground	4	80	1.273	1631	03-0168	Ground	4	110	2.224	5642
03-0148	1/0 AWG	2	80	1.171	1041	03-0169	400 MCM	2	110	1.980	3495
03-0149	w/6 AWG	3	80	1.245	1461	03-0170	w/3 AWG	3	110	2.110	5067
03-0150	Ground	4	80	1.373	1847	03-0171	Ground	4	110	2.337	6479
03-0151	2/0 AWG	2	80	1.259	1221	03-0172	500 MCM	2	110	2.152	4229
03-0152	w/6 AWG	3	80	1.350	1761	03-0173	w/2 AWG	3	110	2.295	6195
03-0153	Ground	4	80	1.481	2251	03-0174	Ground	4	110	2.604	7891

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



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