

TC-XHHW-2 Aluminum, XLPE Insulated, PVC Jacketed

ER; SR; PR; Dir Bul; AI-8000; 600 V

CME[®]
wire and cable

A Viakable Company

Features

UL Listed as TC-ER - exposed run tray cable.

Jacket is rated Sunlight Resistance, Oil Resistance I and Direct Burial.

Meets following 70,000 Btu flame tests:

- ICEA T-30-520

Single conductors are rated XHHW-2, for CT use 1/0 AWG or larger.

Application

These cables are specifically approved for power, control, lighting and signal circuits, in manufacturing, industrial and commercial installations.

For use in accordance with NEC, Article 336, in cable trays, in raceways, or where supported in outdoor locations by a messenger wire.

In cable tray in hazardous (classified) locations Class I, Division 2 per NEC, also as Class I circuits per Article 725, and in Class II, Division 2, as permitted per NEC.

When installed in accordance with NEC 336.10(7), TC-ER marked cable is approved for use as open wiring between a cable tray and the utilization equipment or device.

Standards

UL 1277

Electrical Power and Control Tray Cables with Optional Optical-Fiber Members.

UL 44

Rubber-Insulated Wires and Cables.

ICE A S-73-5 32

NEMA WC57

Standard for Control Cables.

ICE A S-95-658

Standard for Non-shielded Power Cables Rated 2000 Volts or Less.

Specifications

Maximum operating voltage:

- 600 volts

Maximum conductor operation temperatures:

- 90 °C wet and dry

Engineering Information

1. Conductor: Aluminum AA-8000 alloy compacted conductor, Class B stranding, per ASTM B801.

Sizes: 6 AWG up to 1000 kcmil.

2. Insulation: Flame retardant thermoset crosslinked polyethylene (XLPE), meeting XHHW-2 requirements.



Conductor Identification ICEA:

6 AWG – 1000 kcmil: Black with printed numbers.

On request, Color Coded, Black, White and Red or Green.

3. Grounding (Optional): Sizes 6 AWG - 1000 kcmil: with one or three bare conductor(s).

4. Assembly: Phase and optional grounding conductor(s) cabled with non hygroscopic fillers, as required and binder tape.

5. Jacket: Black sunlight resistant and flame retardant polyvinyl chloride (PVC) compound.

Technical Data

XHHW-2 600 V

Size AWG or kcmil	Number of Strands	Nominal Insulation Thickness	Optional Grounding* Conductor	Jacket Thickness	Approximate Outside Diameter	Approximate Net Weight
		mil	AWG	mil	in	lb/ft
Three Conductors						
6	7	45	6	60	0.69	252
4	7	45	6	60	0.79	329
2	7	45	6	80	0.95	486
1	19	55	4	80	1.06	604
1/0	19	55	4	80	1.14	707
2/0	19	55	4	80	1.23	833
3/0	19	55	4	80	1.33	989
4/0	19	55	2	80	1.44	1194
250	37	65	2	80	1.58	1397
300	37	65	2	110	1.75	1716
350	37	65	2	110	1.85	1933
400	37	65	1	110	1.94	2156
500	37	65	1	110	2.11	2575
600	61	80	1	110	2.34	3087
750	61	80	1/0	110	2.55	3715
1000	61	80	1/0	140	2.94	4926
Four Conductors						
6	7	45	6	60	0.76	314
4	7	45	6	60	0.91	451
2	7	45	6	80	1.04	605
1	19	55	4	80	1.17	757
1/0	19	55	4	80	1.26	885
2/0	19	55	4	80	1.35	1042
3/0	19	55	4	80	1.47	1238
4/0	19	55	2	80	1.59	1501
250	37	65	2	80	1.81	1859
300	37	65	2	110	1.93	2138
350	37	65	2	110	2.04	2412
400	37	65	1	110	2.15	2691
500	37	65	1	110	2.33	3222
600	61	80	1	110	2.59	3901
750	61	80	1/0	110	2.89	4846
1000	61	80	1/0	140	N/A	N/A

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product. Other sizes available upon request.

Ampacities: Refer to beginning of section.

* At the option of manufacturer, Ground Conductor can be divided in three, one in each interstice.