XHHW-2 XLPE Insulated PVC Sheathed Control Cables

XHHW-2 600V, XLPE Insulated & PVC Sheathed Control Cable

Application:

These flame-retardant cable are designed for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Suitable for use in wet or dry locations at 90°C, for installation indoors or outdoors, aerially, in conduits, ducts, cable trays or direct burial in circuits not exceeding 600 volts. May be used in NEC Class I and II, Division 2 hazardous locations. Recognised for use at 90°C continuous ratings for dry operation, 130°C for emergency overload ratings, and 250°C for short circuit ratings.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 and UL 44 Paragraph 12.6.

Insulation:

Flame-retardant cross-linked polyethylene (FR-XLPE) per ICEA S-73-532 part 3 and UL Standard 44 for Type XHHW-2, VW-1 conductors.

Cabling:

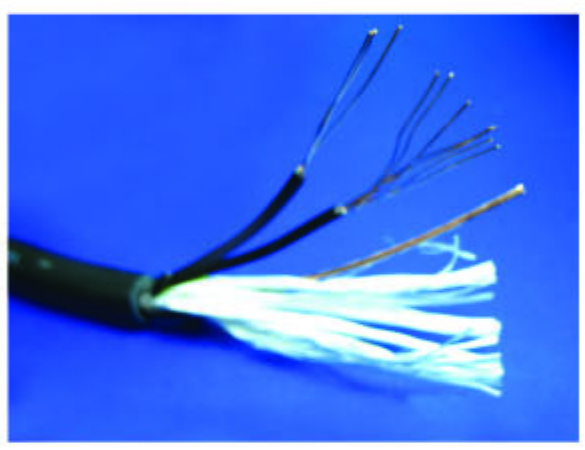
Three or more conductors are assembled round with non hygroscopic fillers as needed.
An optional binder is applied over the assembly. A Nylon rip cord is put under the jacket for ease of stripping.

Overall Jacket:

Sunlight-resistant gas/vaportight PVC per UL 1277 table 11-1 & ICEA S-73-532 part 4.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- IEEE 1202 70,000 BTU/hr CSA FT4 flame test
- ICEA T-29-520 210,000 BTU/hr flame test
- Individual conductors pass the UL VW-1 flame test



Color Code:

ICEA Method 1, Table E-2

Additional Standards:

- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 circuits per Article 725 of the NEC.
- NEMA WC 57

Insulation Thickness:30 mils

14 AWG (7 Strand)				12 AWG (7 Strand)			10 AWG (18 Strand)		
No. of Cores	Nominal Thickness of Jacket (mils/mm)	Nominal Overall Diameter (inches/mm)	Approx. Weight (lbs/1000ft)	Nominal Thickness of Jacket (mils/mm)	Nominal Overall Diameter (inches/mm)	Approx. Weight (lbs/1000ft)	Nominal Thickness of Jacket (mils/mm)	Nominal Overall Diameter (inches/mm)	Approx. Weight (lbs/1000ft)
2	45/1.14	0.37/9.4	65	45/1.14	0.41/10.2	85	45/1.14	0.45/11.4	135
3	45/1.14	0.39/9.9	85	45/1.14	0.43/10.9	120	45/1.14	0.47/11.9	175
4	45/1.14	0.42/10.7	115	45/1.14	0.47/11.9	150	60/1.52	0.56/14.2	225
5	45/1.14	0.46/11.7	135	60/1.52	0.55/13.9	215	60/1.52	0.61/15.5	285
6	60/1.52	0.53/12.5	170	60/1.52	0.58/14.7	235	60/1.52	0.66/16.8	325
7	60/1.52	0.53/13.5	185	60/1.52	0.58/14.7	255	60/1.52	0.66/16.8	355
8	60/1.52	0.56/14.2	215	60/1.52	0.65/16.5	305	60/1.52	0.72/18.3	420
9	60/1.52	0.60/15.2	235	60/1.52	0.68/17.3	340	60/1.52	0.77/19.6	475
10	60/1.52	0.66/16.8	255	60/1.52	0.74/18.8	365	80/2.03	0.88/22.4	555
12	60/1.52	0.68/17.3	295	60/1.52	0.77/19.6	420	80/2.03	0.91/23.1	635
16	60/1.52	0.73/18.5	355	80/2.03	0.88/22.4	540	80/2.03	0.98/24.8	765
19	60/1.52	0.79/20.0	435	80/2.03	0.94/23.9	640	80/2.03	1.06/26.9	935
24	80/2.03	0.95/24.1	565	80/2.03	1.09/27.7	805	80/2.03	1.24/31.5	1185
30	80/2.03	1.02/25.4	685	80/2.03	1.16/29.5	980	80/2.03	1.31/33.3	1400
37	80/2.03	1.05/26.7	815	80/2.03	1.24/31.5	1170	80/2.03	1.41/35.8	1700

* Also available in other sizes and other strandings

XHHW-2 XLPE Insulated PVC Sheathed Power Cables

XHHW-2 600V, XLPE Insulated & PVC Sheathed Power Cable

Application:

These flame retardant cable are designed for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Suitable for use in wet or dry locations at 90°C, for installation indoors or outdoors, aerially, in conduits, ducts, cable trays or direct burial in circuits not exceeding 600 volts. May be used in NEC Class I and II, Division 2 hazardous locations. Recognised for use at 90°C for continuous operation, 130°C for emergency overload ratings, and 250°C for short circuit ratings.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 and UL 44 Paragraph 12.6.

Insulation:

Cross-linked polyethylene (XLPE) per ICEA S-95-658 and UL 44 for Type XHHW-2 conductors.

Grounding Conductor:

Concentric compressed stranded soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL 1277.

Cabling:

Three or more conductors are assembled round with non-hygroscopic fillers as needed. A tape binder is applied over the assembly.

Jacket:

Sunlight-resistant gas/vaportight PVC per UL 1277 table 11-1 & ICEA S-95-658 section 4.

Flame Test:

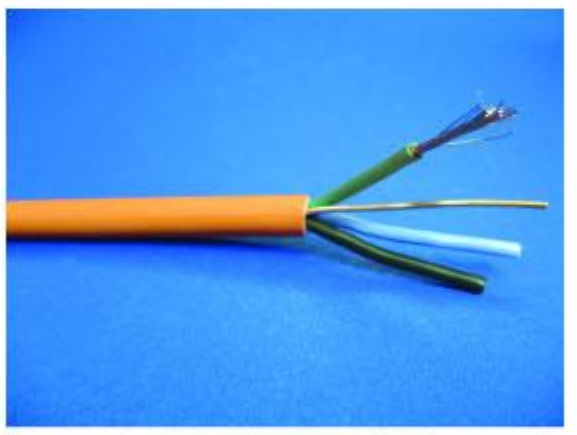
- UL and IEEE 383 70,000 BTU/hr flame test.

Color Code:

ICEA Method 4

Additional Standards:

- UL Type TC Tray Cable per Article 336 of the NEC.
- NEMA WC 70



Three Cores

Size AWG or kcmil	Stranding	Ampacity	Nominal Thickness of Insulation (mils/mm)	Grounding Conductors Three Per Cable(awg)	Nominal Thickness of Jacket (mils/mm)	Nominal Overall Diameter (inches/mm)	Approx. Weight (lbs/1000ft)
8	7	59	45/1.14	14	60/1.52	0.63/16.0	315
6	7	79	45/1.14	12	60/1.52	0.72/18.3	420
4	7	104	45/1.14	12	80/2.02	0.84/21.3	695
2	7	138	45/1.14	10	80/2.02	0.97/24.6	980
1	19	161	55/1.39	10	80/2.02	1.11/28.2	1230
1/0	19	186	55/1.39	10	80/2.02	1.20/30.5	1450
2/0	19	215	55/1.39	10	80/2.02	1.29/32.8	1820
3/0	19	249	55/1.39	7	80/2.02	1.40/35.6	2185
4/0	19	287	55/1.39	7	80/2.02	1.52/38.6	2745
250	37	320	65/1.65	7	110/2.79	1.73/43.9	3215
350	37	394	65/1.65	7	110/2.79	1.96/49.8	4505
500	37	489	65/1.65	5	110/2.79	2.23/56.7	6300
750	61	615	80/2.02	5	140/3.55	2.75/69.9	9490

Four Cores

Size AWG or kcmil	Stranding	Ampacity	Nominal Thickness of Insulation (mils/mm)	Grounding Conductors Three Per Cable(awg)	Nominal Thickness of Jacket (mils/mm)	Nominal Overall Diameter (inches/mm)	Approx. Weight (lbs/1000ft)
8	7	47	45/1.14	12	60/1.52	0.69/17.6	380
6	7	63	45/1.14	10	60/1.52	0.77/19.6	530
4	7	83	45/1.14	10	80/2.02	0.93/23.6	825
2	7	110	45/1.14	8	80/2.02	1.07/27.2	1225
1	19	129	55/1.39	8	80/2.02	1.23/31.2	1525
1/0	19	149	55/1.39	8	80/2.02	1.39/33.8	1805
2/0	19	172	55/1.39	8	80/2.02	1.43/36.3	2440
3/0	19	199	55/1.39	6	80/2.02	1.55/39.4	2635
4/0	19	230	55/1.39	6	110/2.79	1.74/44.2	3495
250	37	256	65/1.65	6	110/2.79	1.92/48.8	4100
350	37	315	65/1.65	6	110/2.79	2.17/55.1	5660
500	37	391	65/1.65	4	110/2.79	2.48/63.1	8150
750	61	492	80/2.02	4	140/3.55	3.05/77.5	12000