
Section D

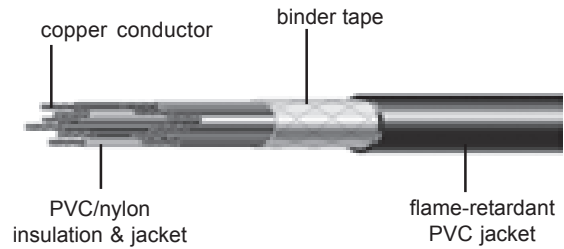
Tray Cables

600 Volt, Control & Power

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TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC
TFN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW150 01802*	18	2	7	15	4	45	.19 x .28	33
HW150 01803	18	3	7	15	4	45	.28	43
HW150 01804	18	4	7	15	4	45	.31	52
HW150 01805	18	5	7	15	4	45	.33	62
HW150 01806	18	6	7	15	4	45	.36	72
HW150 01807	18	7	7	15	4	45	.37	79
HW150 01808	18	8	7	15	4	45	.38	89
HW150 01809	18	9	7	15	4	45	.41	104
HW150 01810	18	10	7	15	4	45	.45	111
HW150 01812	18	12	7	15	4	45	.46	127
HW150 01815	18	15	7	15	4	45	.51	157
HW150 01819	18	19	7	15	4	60	.57	202
HW150 01825	18	25	7	15	4	60	.65	258
HW150 01830	18	30	7	15	4	60	.69	300
HW150 01837	18	37	7	15	4	60	.74	360

* Flat construction

Application: General purpose cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved for continuous operation at 90°C in dry locations, 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.

Conductors: Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation: Flame-retardant PVC per UL Standard 62 for Type TFN wire.

Insulation Jacket: Clear nylon per UL Standard 62 for Type TFN wire.

Jacket: Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

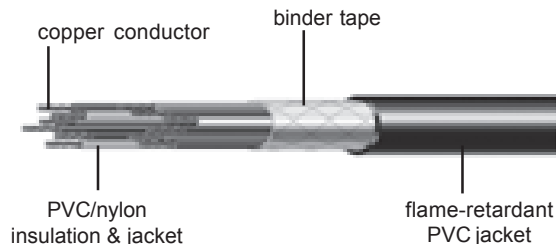
Color Code: ICEA Method 1, Table E-2

Additional Standards:

- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC
TFN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW150 01602*	16	2	7	15	4	45	.20 x .30	42
HW150 01603	16	3	7	15	4	45	.31	55
HW150 01604	16	4	7	15	4	45	.34	69
HW150 01605	16	5	7	15	4	45	.36	83
HW150 01606	16	6	7	15	4	45	.39	96
HW150 01607	16	7	7	15	4	45	.39	106
HW150 01608	16	8	7	15	4	45	.39	122
HW150 01609	16	9	7	15	4	45	.43	138
HW150 01610	16	10	7	15	4	45	.46	149
HW150 01612	16	12	7	15	4	45	.51	174
HW150 01615	16	15	7	15	4	60	.60	229
HW150 01616	16	16	7	15	4	60	.60	241
HW150 01619	16	19	7	15	4	60	.63	275
HW150 01620	16	20	7	15	4	60	.66	291
HW150 01625	16	25	7	15	4	60	.72	355
HW150 01630	16	30	7	15	4	60	.77	414
HW150 01637	16	37	7	15	4	80	.82	498
HW150 01650	16	50	7	15	4	80	1.01	703

* Flat construction

Application: General purpose cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved for continuous operation at 90°C in dry locations, 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.

Conductors: Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation: Flame-retardant PVC per UL Standard 62 for Type TFN wire.

Insulation Jacket: Clear nylon per UL Standard 62 for Type TFN wire.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test
- IEEE 1202 70,000 BTU/hr flame test

Color Code:

ICEA Method 1, Table E-2

Additional Standards:

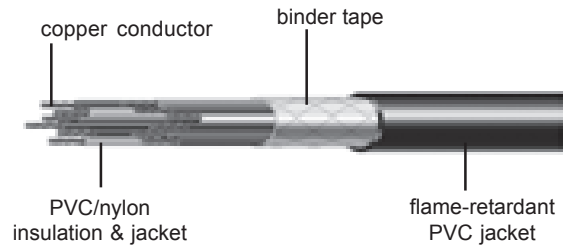
- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

Tray Cables

Specification
HW151

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC
THHN or THWN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW151 01402*	14	2	7	15	4	45	.22 x .33	62
HW151 01403	14	3	7	15	4	45	.35	80
HW151 01404	14	4	7	15	4	45	.38	99
HW151 01405	14	5	7	15	4	45	.41	118
HW151 01406	14	6	7	15	4	45	.45	140
HW151 01407	14	7	7	15	4	45	.45	153
HW151 01409	14	9	7	15	4	45	.52	196
HW151 01410	14	10	7	15	4	60	.60	230
HW151 01412	14	12	7	15	4	60	.61	267
HW151 01416	14	16	7	15	4	60	.68	343
HW151 01419	14	19	7	15	4	60	.71	396
HW151 01420	14	20	7	15	4	60	.75	423
HW151 01425	14	25	7	15	4	80	.83	511
HW151 01430	14	30	7	15	4	80	.93	636
HW151 01437	14	37	7	15	4	80	.98	766
HW151 01440	14	40	7	15	4	80	1.01	840
HW151 01450	14	50	7	15	4	80	1.17	1043
HW151 01460	14	60	7	15	4	80	1.21	1200

* Flat construction

Tray Cables

Application: General purpose cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors: Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation: Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire.

Insulation Jacket: Clear nylon per UL Standard 83 for Type THHN or THWN wire.

Jacket: Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

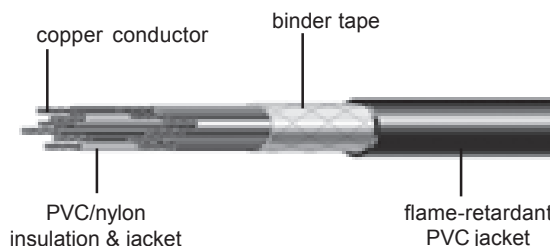
Color Code: ICEA Method 1, Table E-2

Additional Standards:

- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC
THHN or THWN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW151 01202*	12	2	7	15	4	45	.24 x .37	77
HW151 01203	12	3	7	15	4	45	.39	110
HW151 01204	12	4	7	15	4	45	.42	138
HW151 01205	12	5	7	15	4	45	.46	165
HW151 01207	12	7	7	15	4	45	.50	216
HW151 01209	12	9	7	15	4	60	.62	297
HW151 01210	12	10	7	15	4	60	.67	324
HW151 01212	12	12	7	15	4	60	.69	378
HW151 01215	12	15	7	15	4	60	.76	468
HW151 01216	12	16	7	15	4	60	.76	488
HW151 01219	12	19	7	15	4	60	.80	568
HW151 01220	12	20	7	15	4	80	.89	642
HW151 01225	12	25	7	15	4	80	.99	775
HW151 01230	12	30	7	15	4	80	1.03	910
HW151 01237	12	37	7	15	4	80	1.14	1105

* Flat construction

Application:

General purpose cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire.

Insulation Jacket:

Clear nylon per UL Standard 83 for Type THHN or THWN wire.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code:

ICEA Method 1, Table E-2

Additional Standards:

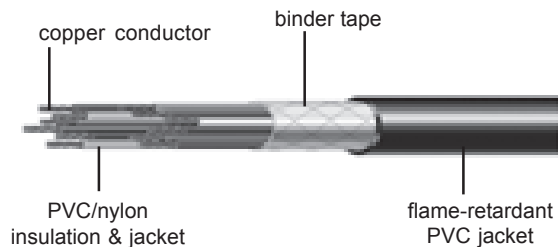
- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

Tray Cables

Specification
HW151

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC
THHN or THWN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW151 01002*	10	2	7	20	4	45	.27 x .44	131
HW151 01003	10	3	7	20	4	45	.45	169
HW151 01004	10	4	7	20	4	45	.50	231
HW151 01005	10	5	7	20	4	60	.58	276
HW151 01006	10	6	7	20	4	60	.63	329
HW151 01007	10	7	7	20	4	60	.63	361
HW151 01009	10	9	7	20	4	60	.73	465
HW151 01012	10	12	7	20	4	80	.86	647
HW151 01016	10	16	7	20	4	80	.97	817
HW151 01019	10	19	7	20	4	80	1.02	920

* Flat construction

Application:

General purpose cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire.

Insulation Jacket:

Clear nylon per UL Standard 83 for Type THHN or THWN wire.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code:

ICEA Method 1, Table E-2

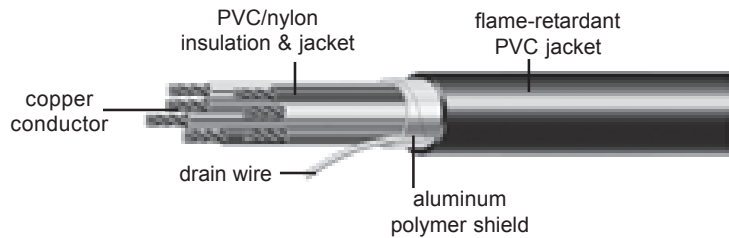
Additional Standards:

- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

Tray Cables

TRAY CABLE - SHIELDED CONTROL CABLE

**600 Volt UL Type TC
TFN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW152 01802	18	2	7	15	4	45	.27	34
HW152 01803	18	3	7	15	4	45	.28	43
HW152 01804	18	4	7	15	4	45	.31	52
HW152 01805	18	5	7	15	4	45	.33	62
HW152 01806	18	6	7	15	4	45	.36	72
HW152 01807	18	7	7	15	4	45	.36	79
HW152 01808	18	8	7	15	4	45	.38	89
HW152 01812	18	12	7	15	4	45	.46	127
HW152 01819	18	19	7	15	4	60	.57	202
HW152 01837	18	37	7	15	4	60	.74	360

Application:

General purpose cable for use where shielding from electro-static interference is required in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved for continuous operation at 90°C in dry locations, 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.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant PVC per UL Standard 62 for Type TFN wire.

Insulation Jacket:

Clear nylon per UL Standard 62 for Type TFN wire.

Overall Shield:

Aluminum-polymer tape providing 100% coverage with a flexible 7-strand tinned copper drain wire.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code:

ICEA Method 1, Table E-2

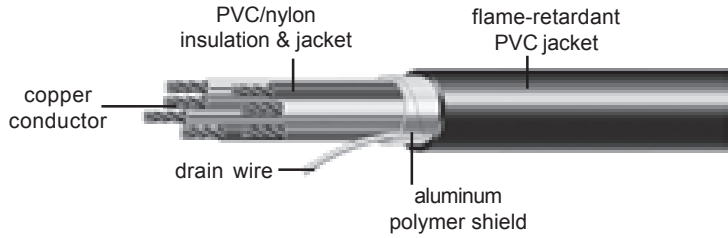
Additional Standards:

- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

Tray Cables

TRAY CABLE - SHIELDED CONTROL CABLE

600 Volt UL Type TC, 90°C
TFN Insulation
PVC Jacket
Copper Conductors



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW152 01602	16	2	7	15	4	45	.29	43
HW152 01603	16	3	7	15	4	45	.31	55
HW152 01604	16	4	7	15	4	45	.34	69
HW152 01605	16	5	7	15	4	45	.36	83
HW152 01606	16	6	7	15	4	45	.39	96
HW152 01607	16	7	7	15	4	45	.41	106
HW152 01608	16	8	7	15	4	45	.43	122
HW152 01609	16	9	7	15	4	45	.46	138
HW152 01610	16	10	7	15	4	45	.49	149
HW152 01612	16	12	7	15	4	45	.51	174
HW152 01619	16	19	7	15	4	60	.63	275
HW152 01625	16	25	7	15	4	60	.72	355
HW152 01637	16	37	7	15	4	80	.82	498

Tray Cables

Application:

General purpose cable for use where shielding from electroc-static interference is required in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved for continuous operation at 90°C in dry locations, 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.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant PVC per UL Standard 62 for Type TFN wire.

Insulation Jacket:

Clear nylon per UL Standard 62 for Type TFN wire.

Overall Shield:

Aluminum-polymer tape providing 100% coverage with a flexible 7-strand tinned copper drain wire.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code:

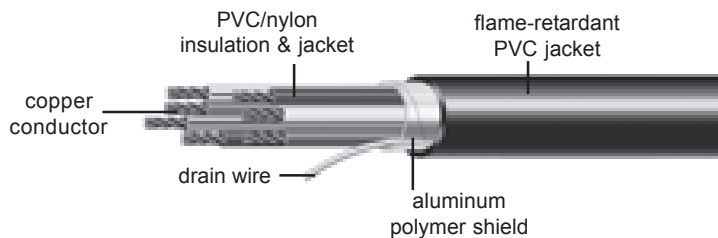
ICEA Method 1, Table E-2

Additional Standards:

- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

TRAY CABLE - SHIELDED CONTROL CABLE

**600 Volt UL Type TC
THHN or THWN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW153 01402	14	2	7	15	4	45	.33	62
HW153 01403	14	3	7	15	4	45	.35	80
HW153 01404	14	4	7	15	4	45	.38	99
HW153 01405	14	5	7	15	4	45	.41	118
HW153 01407	14	7	7	15	4	45	.45	153
HW153 01409	14	9	7	15	4	45	.52	196
HW153 01412	14	12	7	15	4	60	.61	267
HW153 01419	14	19	7	15	4	60	.71	396
HW153 01425	14	25	7	15	4	60	.83	511
HW153 01437	14	37	7	15	4	60	1.02	768

Application:

General purpose cable for use where shielding from electro-static interference is required in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire.

Insulation Jacket:

Clear nylon per UL Standard 83 for Type THHN or THWN wire.

Overall Shield:

Aluminum-polymer tape providing 100% coverage with a flexible 7-strand tinned copper drain wire.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code:

Control Sizes: ICEA Method 1, Table E-2

Additional Standards:

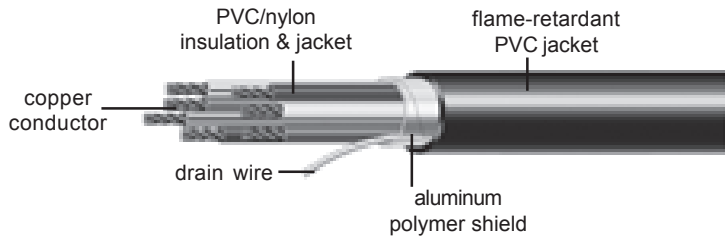
- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

Tray Cables

Specification
HW153

TRAY CABLE - SHIELDED CONTROL CABLE

**600 Volt UL Type TC
THHN or THWN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW153 01202	12	2	7	15	4	45	.37	83
HW153 01203	12	3	7	15	4	45	.39	110
HW153 01204	12	4	7	15	4	45	.42	138
HW153 01205	12	5	7	15	4	45	.46	165
HW153 01207	12	7	7	15	4	45	.50	216
HW153 01209	12	9	7	15	4	60	.62	297
HW153 01212	12	12	7	15	4	60	.69	378
HW153 01219	12	19	7	15	4	60	.80	568
HW153 01237	12	37	7	15	4	60	1.14	1105
HW153 01002	10	2	7	20	4	45	.43	131
HW153 01003	10	3	7	20	4	45	.45	169
HW153 01004	10	4	7	20	4	45	.50	231
HW153 01005	10	5	7	20	4	60	.58	276
HW153 01012	10	12	7	20	4	60	.86	647

Tray Cables

Application: General purpose cable for use where shielding from electro-static interference is required in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors: Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation: Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire.

Insulation Jacket: Clear nylon per UL Standard 83 for Type THHN or THWN wire.

Overall Shield: Aluminum-polymer tape providing 100% coverage with a flexible 7-strand tinned copper drain wire.

Jacket: Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code:

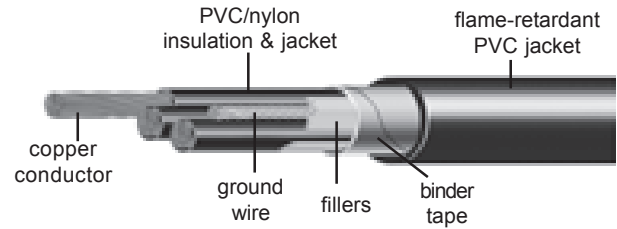
Control Sizes: ICEA Method 1, Table E-2

Additional Standards:

- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

TRAY CABLE - POWER CABLE

**600 Volt UL Type TC
THHN or THWN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Ground Wire Size AWG	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW154 00803	8	3	7	30	5	10	60	.58	220
HW154 00804	8	4	7	30	5	10	60	.61	286
HW154 00603	6	3	7	30	5	8	60	.69	386
HW154 00604	6	4	7	30	5	8	60	.76	505
HW154 00403	4	3	7	40	6	8	60	.89	630
HW154 00404	4	4	7	40	6	8	80	.97	828
HW154 00203	2	3	7	40	6	6	80	1.03	930
HW154 00204	2	4	7	40	6	6	80	1.13	1213
HW154 00103	1	3	19	50	7	6	80	1.15	1252

Application:

General purpose cable for use in primary power and feeder circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire.

Insulation Jacket:

Clear nylon per UL Standard 83 for Type THHN or THWN wire.

Grounding Conductor:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code:

ICEA Method 4

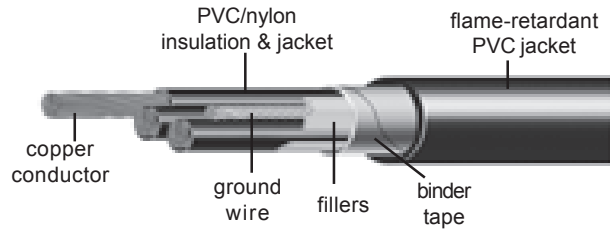
Additional Standards:

UL Type TC per Article 336 of the NEC.

Specification
HW154

TRAY CABLE - POWER CABLE

**600 Volt UL Type TC
THHN or THWN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG/kcmil	Number of Conductors	Number of Strands	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Ground Wire Size AWG	Overall Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW154 10103	1/0	3	19	50	7	6	80	1.22	1423
HW154 10104	1/0	4	19	50	7	6	80	1.34	1832
HW154 20103	2/0	3	19	50	7	6	80	1.32	1718
HW154 20104	2/0	4	19	50	7	6	80	1.45	2223
HW154 30103	3/0	3	19	50	7	4	80	1.42	2131
HW154 30104	3/0	4	19	50	7	4	80	1.58	2756
HW154 40103	4/0	3	19	50	7	3	80	1.54	2592
HW154 40104	4/0	4	19	50	7	3	80	1.77	3457
HW154 25003	250	3	37	60	8	3	110	1.75	3123
HW154 25004	250	4	37	60	8	3	110	1.94	4046
HW154 35003	350	3	37	60	8	3	110	1.97	4204
HW154 35004	350	4	37	60	8	3	110	2.18	5469
HW154 50003	500	3	37	60	8	2	110	2.26	5792
HW154 50004	500	4	37	60	8	1	110	2.49	7556
HW154 75003	750	3	61	60	9	1	110	2.82	9060

Tray Cables

Application: General purpose cable for use in primary power and feeder circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors: Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation: Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire.

Insulation Jacket: Clear nylon per UL Standard 83 for Type THHN or THWN wire.

Grounding Conductor: Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277.

Jacket: Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

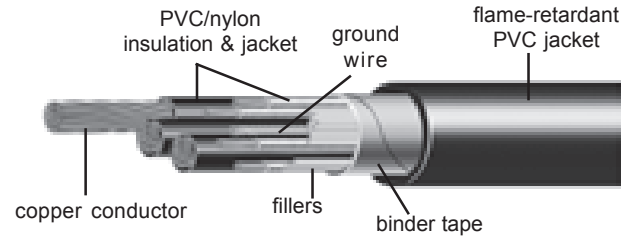
- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code: ICEA Method 4

Additional Standards: UL Type TC per Article 336 of the NEC.

TRAY CABLE – POWER & CONTROL COMPOSITE CABLE

**600 Volt UL Type TC
THHN or THWN Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	No. of Conductors	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Ground Wire Size AWG	Size AWG	No. of Conductors	Insulation Thickness Mils	Nylon Jacket Thickness Mils	Overall Jacket Thickness	Overall Diameter Inch	Net Weight Lbs/Mft
Power						Control						
HW155 12014	12	3	15	4	12	14	4	15	4	45	.45	190
HW155 10014	10	3	20	4	10	14	4	15	4	60	.55	265
HW155 08014	8	3	30	5	10	14	4	15	4	60	.67	350
HW155 06014	6	3	30	5	8	14	4	15	4	60	.72	458
HW155 04014	4	3	40	6	8	14	4	15	4	80	.93	707
HW155 02014	2	3	40	6	6	14	4	15	4	80	1.02	980
HW155 10012	10	3	20	4	10	12	4	15	4	60	.58	280
HW155 08012	8	3	30	5	10	12	4	15	4	60	.71	392
HW155 06012	6	3	30	5	8	12	4	15	4	60	.76	505
HW155 04012	4	3	40	6	8	12	4	15	4	80	.94	735
HW155 02012	2	3	40	6	6	12	4	15	4	80	1.01	1030

Application:

General purpose cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use in continuous operation at 75°C in wet locations, 90°C in dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

7-strand soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire.

Insulation Jacket:

Clear nylon per UL Standard 83 for Type THHN or THWN wire.

Grounding Conductor:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- ICEA 210,000 BTU/hr flame test

Color Code:

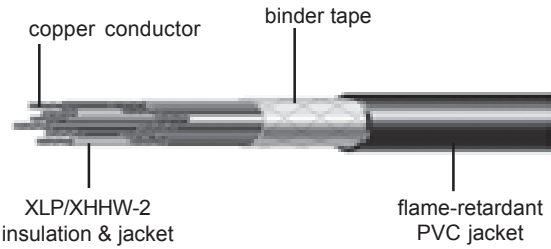
- Power Sizes: ICEA Method 4
- Control Sizes: ICEA Method 1, Table E-2

Additional Standards:

- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.

TRAY CABLE - CONTROL CABLE

600 Volt UL Type TC, 90°C
FR-XLP VW-1 XHHW-2 Insulation
PVC Jacket
Copper Conductors



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW156 01402*	14	2	7	30	45	.23 x .37	71
HW156 01403	14	3	7	30	45	.39	85
HW156 01404	14	4	7	30	45	.42	105
HW156 01405	14	5	7	30	45	.46	125
HW156 01407	14	7	7	30	45	.50	173
HW156 01409	14	9	7	30	60	.62	241
HW156 01412	14	12	7	30	60	.68	302
HW156 01419	14	19	7	30	80	.81	448
HW156 01425	14	25	7	30	80	.96	631
HW156 01430	14	30	7	30	80	1.04	721
HW156 01437	14	37	7	30	80	1.13	867

* Flat construction

Application:

Flame-retardant cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

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

Jacket:

Sunlight-resistant PVC per ICEA S-73-532 and UL Standard 1277.

Flame Tests:

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

Color Code:

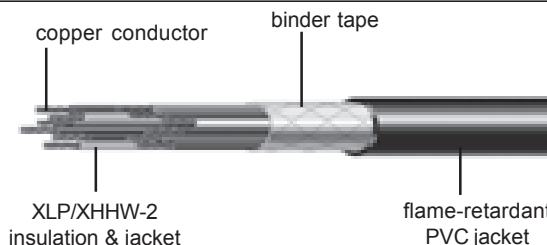
ICEA Method 1, Table E-2

Additional Standards:

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

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC, 90°C
FR-XLP VW-1 XHHW-2 Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW156 01202*	12	2	7	30	45	.25 X .41	95
HW156 01203	12	3	7	30	45	.43	135
HW156 01204	12	4	7	30	45	.47	168
HW156 01205	12	5	7	30	60	.55	214
HW156 01207	12	7	7	30	60	.60	290
HW156 01209	12	9	7	30	60	.69	360
HW156 01212	12	12	7	30	60	.76	460
HW156 01219	12	19	7	30	80	.95	663
HW156 01225	12	25	7	30	80	1.08	850
HW156 01230	12	30	7	30	80	1.17	1003
HW156 01237	12	37	7	30	80	1.27	1211

* Flat construction

Application:

Flame-retardant cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

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

Jacket:

Sunlight-resistant PVC per ICEA S-73-532 and UL Standard 1277.

Flame Tests:

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

Color Code:

ICEA Method 1, Table E-2

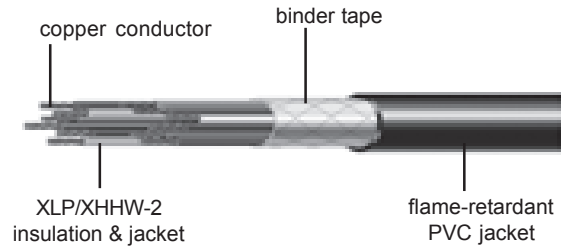
Additional Standards:

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

Tray Cables

TRAY CABLE - CONTROL CABLE

600 Volt UL Type TC, 90°C
FR-XLP VW-1 XHHW-2 Insulation
PVC Jacket
Copper Conductors



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW156 01002*	10	2	7	30	45	.27 x .46	131
HW156 01003	10	3	7	30	45	.48	169
HW156 01004	10	4	7	30	60	.56	231
HW156 01005	10	5	7	30	60	.61	276
HW156 01007	10	7	7	30	60	.67	328
HW156 01009	10	9	7	30	60	.78	465
HW156 01012	10	12	7	30	80	.90	629
HW156 01019	10	19	7	30	80	1.07	900

* Flat construction

Tray Cables

Application:

Flame-retardant cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

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

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Tests:

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

Color Code:

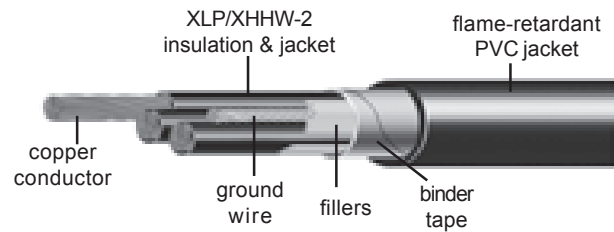
ICEA Method 1, Table E-2

Additional Standards:

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

TRAY CABLE - POWER CABLE

**600 Volt UL Type TC, 90°C
XLP XHHW-2 Insulation
PVC Jacket
Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Ground Wire Size AWG	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW157 00803	8	3	7	45	10	60	.66	330
HW157 00804	8	4	7	45	10	60	.72	385
HW157 00603	6	3	7	45	8	60	.74	460
HW157 00604	6	4	7	45	8	60	.79	570
HW157 00403	4	3	7	45	8	60	.86	700
HW157 00404	4	4	7	45	8	80	.96	830
HW157 00203	2	3	7	45	6	80	1.00	985
HW157 00204	2	4	7	45	6	80	1.10	1235
HW157 00103	1	3	19	55	6	80	1.13	1170

Application:

Flame retardant cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

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

Grounding Conductor:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Test:

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

Color Code:

ICEA Method 4

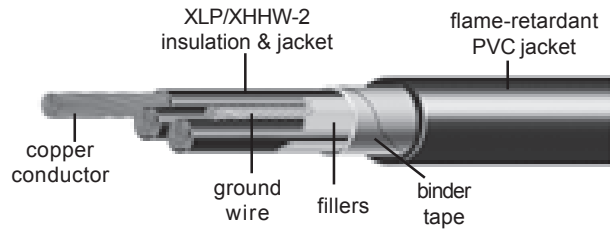
Additional Standards:

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

Specification
HW157

TRAY CABLE - POWER CABLE

600 Volt UL Type TC, 90°C
XLP XHHW-2 Insulation
PVC Jacket
Copper Conductors



Catalog No.	Size AWG/kcmil	Number of Conductors	Number of Strands	Insulation Thickness Mils	Ground Wire Size AWG	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW157 10103	1/0	3	19	55	6	80	1.22	1455
HW157 10104	1/0	4	19	55	6	80	1.35	1840
HW157 20103	2/0	3	19	55	6	80	1.32	1760
HW157 20104	2/0	4	19	55	6	80	1.45	2250
HW157 30103	3/0	3	19	55	4	80	1.42	2120
HW157 30104	3/0	4	19	55	4	80	1.58	2770
HW157 40103	4/0	3	19	55	4	80	1.54	2660
HW157 40104	4/0	4	19	55	4	110	1.78	3500
HW157 25003	250	3	37	65	4	110	1.75	3300
HW157 25004	250	4	37	65	4	110	1.94	4160
HW157 35003	350	3	37	65	3	110	1.98	4360
HW157 35004	350	4	37	65	3	110	2.19	5670
HW157 50003	500	3	37	65	2	110	2.26	6190
HW157 50004	500	4	37	65	1	140	2.50	7890
HW157 75003	750	3	61	80	1	140	2.77	9500
HW157 75004	750	4	61	80	1	140	3.07	12100

Tray Cables

Application:

Flame-retardant cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8.

Insulation:

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

Grounding Conductor:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277.

Jacket:

Sunlight-resistant PVC per UL Standard 1277.

Flame Test:

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

Color Code:

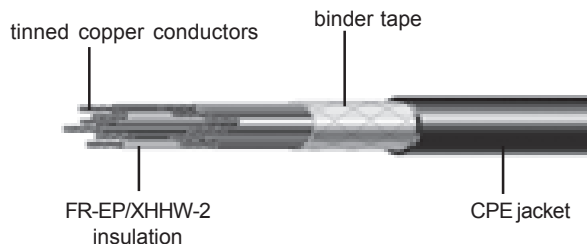
ICEA Method 4

Additional Standards:

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

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC, 90°C
FR-EP VW-1 XHHW-2 Insulation
CPE Jacket
Tinned Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW158 01402*	14	2	7	30	45	.37 x .23	71
HW158 01403	14	3	7	30	45	.39	92
HW158 01404	14	4	7	30	45	.43	115
HW158 01405	14	5	7	30	45	.47	139
HW158 01407	14	7	7	30	60	.51	183
HW158 01409	14	9	7	30	60	.62	250
HW158 01412	14	12	7	30	60	.70	317
HW158 01415	14	15	7	30	60	.76	383
HW158 01419	14	19	7	30	60	.82	468
HW158 01425	14	25	7	30	60	.99	645
HW158 01430	14	30	7	30	60	1.05	747
HW158 01437	14	37	7	30	60	1.03	897

* Flat construction

Application:

Superior flame-retardant cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications where resistance to caustic environments is required. Approved 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 installed at temperatures as low as -35°C and used in NEC Class I and II, Division 2 hazardous locations. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Tin-coated, soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant ethylene-propylene-rubber (FR-EP) per ICEA S-73-532 and UL Standard 44 for Type XHHW-2, VW-1 conductors.

Jacket:

Sunlight-resistant chlorinated polyethylene (CPE) per ICEA S-73-532 and UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- IEEE 1202 70,000 BTU/hr CSA FT4 flame test
- UL Standard 1277 70,000 BTU/hr 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:

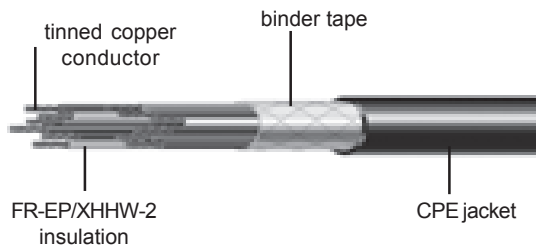
- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.
- NEMA WC 57

Tray Cables

Specification
HW158

TRAY CABLE - CONTROL CABLE

600 Volt UL Type TC, 90°C
FR-EP VW-1 XHHW-2 Insulation
CPE Jacket
Tinned Copper Conductors



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW158 01202*	12	2	7	30	45	.40 x .25	94
HW158 01203	12	3	7	30	45	.44	124
HW158 01204	12	4	7	30	45	.48	157
HW158 01205	12	5	7	30	60	.52	191
HW158 01207	12	7	7	30	60	.60	268
HW158 01209	12	9	7	30	60	.70	347
HW158 01212	12	12	7	30	60	.78	437
HW158 01215	12	15	7	30	60	.88	561
HW158 01219	12	19	7	30	60	.96	688
HW158 01225	12	25	7	30	60	1.01	894
HW158 01230	12	30	7	30	60	1.18	1040
HW158 01237	12	37	7	30	60	1.27	1256

* Flat construction

Tray Cables

Application:

Superior flame-retardant cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications where resistance to caustic environments is required. Approved 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 installed at temperatures as low as -35°C and used in NEC Class I and II, Division 2 hazardous locations. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Tin-coated, soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant ethylene-propylene-rubber (FR-EP) per ICEA S-73-532 and UL Standard 44 for Type XHHW-2, VW-1 conductors.

Jacket:

Sunlight-resistant chlorinated polyethylene (CPE) per ICEA S-73-532 and UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- IEEE 1202 70,000 BTU/hr CSA FT4 flame test
- UL Standard 1277 70,000 BTU/hr flame test
- ICEA T-29-520 210,000 BTU/hr flame test
- Individual conductors pass the UL VW-1 flame test

Color Code:

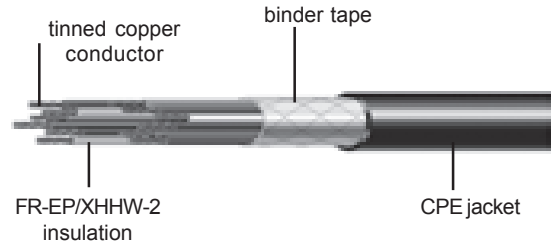
ICEA Method 1, Table E-2

Additional Standards:

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

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC, 90°C
FR-EP VW-1 XHHW-2 Insulation
CPE Jacket
Tinned Copper Conductors**



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW158 01002*	10	2	7	30	45	.45 x .27	128
HW158 01003	10	3	7	30	45	.49	172
HW158 01004	10	4	7	30	60	.56	234
HW158 01005	10	5	7	30	60	.62	284
HW158 01007	10	7	7	30	60	.67	381
HW158 01009	10	9	7	30	60	.79	488
HW158 01012	10	12	7	30	60	.92	651
HW158 01015	10	15	7	30	60	1.02	812
HW158 01019	10	19	7	30	60	1.08	967
HW158 01024	10	24	7	30	60	1.36	1221
HW158 01037	10	37	7	30	60	2.10	1882

* Flat construction

Application: Superior flame-retardant cable for use in power, control and lighting circuits in a broad range of commercial and industrial applications where resistance to caustic environments is required. Approved 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 installed at temperatures as low as -35°C and used in NEC Class I and II, Division 2 hazardous locations. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors: Tin-coated, soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation: Flame-retardant ethylene-propylene-rubber (FR-EP) per ICEA S-73-532 and UL Standard 44 for Type XHHW-2, VW-1 conductors.

Jacket: Sunlight-resistant chlorinated polyethylene (CPE) per ICEA S-73-532 and UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- IEEE 1202 70,000 BTU/hr CSA FT4 flame test
- UL Standard 1277 70,000 BTU/hr 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:

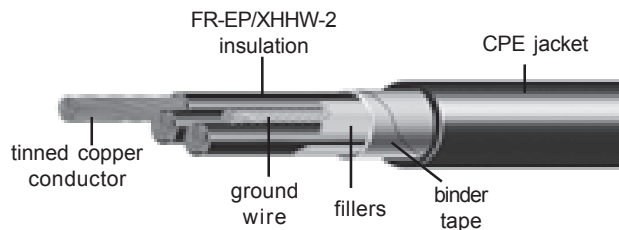
- UL Type TC per Article 336 of the NEC.
- Approved for Class 1 remote-control and signaling circuits per Article 725 of the NEC.
- NEMA WC 57

Tray Cables

Specification
HW159

TRAY CABLE - POWER CABLE

600 Volt UL Type TC, 90°C
FR-EP VW-1 XHHW-2 Insulation
CPE Jacket
Tinned Copper Conductors



Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Ground Wire Size AWG	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW159 00803	8	3	7	45	10	60	.66	359
HW159 00804	8	4	7	45	10	60	.72	439
HW159 00603	6	3	7	45	8	60	.74	513
HW159 00604	6	4	7	45	8	60	.81	627
HW159 00403	4	3	7	45	8	80	.88	721
HW159 00404	4	4	7	45	8	80	.97	897
HW159 00203	2	3	7	45	6	80	1.01	1063
HW159 00204	2	4	7	45	6	80	1.11	1324
HW159 00103	1	3	19	55	6	80	1.13	1190

Tray Cables

Application:

Superior flame-retardant cable for use in caustic environments in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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 installed at temperatures as low as -35°C and used in NEC Class I and II, Division 2 hazardous locations. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors:

Tin-coated, soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation:

Flame-retardant ethylene-propylene-rubber (FR-EP) per ICEA S-95-658 and UL Standard 44 for Type XHHW-2, VW-1 conductors.

Grounding Conductor:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277.

Jacket:

Sunlight-resistant chlorinated polyethylene (CPE) per ICEA S-95-658 and UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- IEEE 1202 70,000 BTU/hr CSA FT4 flame test
- UL Standard 1277 70,000 BTU/hr flame test
- ICEA T-29-520 210,000 BTU/hr flame test
- Individual conductors pass the UL VW-1 flame test

Color Code:

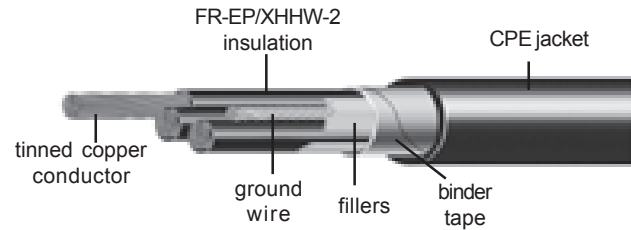
ICEA Method 4

Additional Standards:

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

TRAY CABLE - POWER CABLE

**600 Volt UL Type TC, 90°C
FR-EP VW-1 XHHW-2 Insulation
CPE Jacket
Tinned Copper Conductors**



Catalog No.	Size AWG/kcmil	Number of Conductors	Number of Strands	Insulation Thickness Mils	Ground Wire Size AWG	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW159 10103	1/0	3	19	55	6	80	1.23	1528
HW159 10104	1/0	4	19	55	6	80	1.34	1934
HW159 20103	2/0	3	19	55	6	80	1.32	1830
HW159 20104	2/0	4	19	55	4	80	1.46	2332
HW159 30103	3/0	3	19	55	4	80	1.43	2500
HW159 30104	3/0	4	19	55	4	80	1.60	2868
HW159 40103	4/0	3	19	55	4	80	1.56	2763
HW159 40104	4/0	4	19	55	4	110	1.79	3630
HW159 25003	250	3	37	65	4	110	1.78	3296
HW159 25004	250	4	37	65	3	110	1.96	4210
HW159 35003	350	3	37	65	3	110	2.00	3643
HW159 35004	350	4	37	65	3	110	2.21	4743
HW159 50003	500	3	37	65	2	110	2.29	6116
HW159 50004	500	4	37	65	2	110	2.54	7881
HW159 75003	750	3	61	80	1	140	2.81	9101

Application: Superior flame-retardant cable for use in caustic environments in power, control and lighting circuits in a broad range of commercial and industrial applications. Approved 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 installed at temperatures as low as -35°C and used in NEC Class I and II, Division 2 hazardous locations. UL approved for use at 90°C for continuous operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Conductors: Tin-coated, soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation: Flame-retardant ethylene-propylene-rubber (FR-EP) per ICEA S-95-658 and UL Standard 44 for Type XHHW-2, VW-1 conductors.

Grounding Conductor: Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277.

Jacket: Sunlight-resistant chlorinated polyethylene (CPE) per ICEA S-95-658 and UL Standard 1277.

Flame Tests:

- IEEE 383 70,000 BTU/hr flame test
- IEEE 1202 70,000 BTU/hr CSA FT4 flame test
- UL Standard 1277 70,000 BTU/hr flame test
- ICEA T-29-520 210,000 BTU/hr flame test
- Individual conductors pass the UL VW-1 flame test

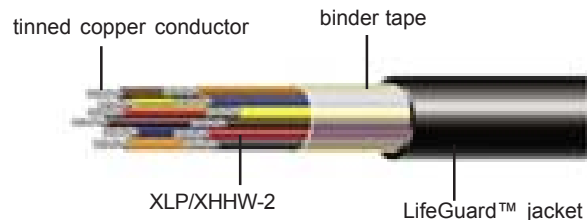
Color Code:
ICEA Method 4

Additional Standards:

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

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC-LS, 90°C
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**



Application:

LifeGuard™ Low Smoke Zero Halogen* cable is for use in power, control and lighting circuits in a broad range of commercial and industrial applications. LifeGuard™ jacket is highly flame retardant, produces very small amounts of smoke when burned and contains no halogens. LifeGuard™ cable is ideal for applications where a high degree of safety and equipment protection is required.

LifeGuard™ cable is UL listed as Type TC-LS and approved for installation indoors or outdoors, aerially, in conduits, ducts, cable trays and direct burial in circuits not exceeding 600 volts. It may be installed in temperatures as low as -30°C and used in NEC Class I, Division 2 hazardous locations. It is UL approved for continuous operation at 90°C in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Product Features:

- Tray rated
- Sunlight-resistant
- Approved for direct burial
- Tinned conductors provide ease of termination and added protection in caustic environments
- Very low smoke production when burned
- LifeGuard™ jacket produces zero halogens during fire – less toxic and corrosive
- LifeGuard™ jacket is environmentally safe – lead, sulfur and halogen free
- Highly chemical resistant
- Very flame retardant
- Burns to an ash – does not exhibit thermoplastic drip
- Excellent compression and impact resistance
- Superior tensile strength and abrasion resistance
- Flexible jacket with low coefficient of friction

Conductors:

Tin coated soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation:

Cross-linked polyethylene (XLP) per UL Standard 44 for Type XHHW-2 conductors.

Jacket:

Sunlight-resistant and flame-retardant, Low Smoke Zero Halogen polyolefin per UL Standard 1277. A ripcord is applied longitudinally under the jacket to facilitate stripping.

Flame Tests:

UL Standard 1581 70,000 BTU/hr flame test

Color Code:

ICEA Method 1, Table E-1 and E-2

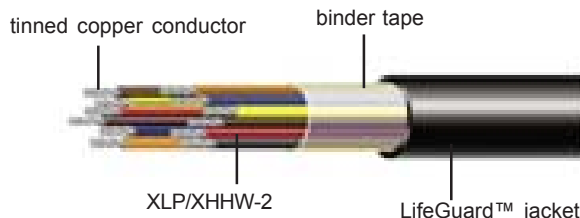
Additional Standards:

- UL Standard 1685
- NEC Type TC per articles 336, 392, and 501.4 (b) and Class 1 circuits per NEC article 725.

*Some cable insulations may contain trace amounts of halogens.

TRAY CABLE - CONTROL CABLE

**600 Volt UL Type TC-LS, 90°C
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**

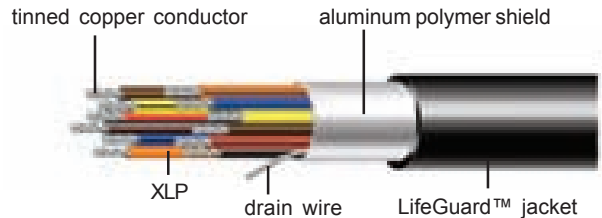


Catalog No.	Size AWG	Number of Conductors	Number of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW170.01002	10	2	7	30	45	.45	119
HW170.01003	10	3	7	30	45	.48	162
HW170.01004	10	4	7	30	60	.52	207
HW170.01005	10	5	7	30	60	.58	272
HW170.01007	10	7	7	30	60	.65	358
HW170.01009	10	9	7	30	60	.77	459
HW170.01012	10	12	7	30	60	.91	628
HW170.01019	10	19	7	30	60	1.05	935
HW170.01202	12	2	7	30	45	.40	87
HW170.01203	12	3	7	30	45	.42	117
HW170.01204	12	4	7	30	45	.46	147
HW170.01205	12	5	7	30	60	.50	178
HW170.01207	12	7	7	30	60	.58	253
HW170.01209	12	9	7	30	60	.68	360
HW170.01212	12	12	7	30	60	.76	409
HW170.01219	12	19	7	30	60	.93	651
HW170.01225	12	25	7	30	60	1.01	894
HW170.01230	12	30	7	30	60	1.18	1040
HW170.01237	12	37	7	30	60	1.27	1256
HW170.01402	14	2	7	30	45	.36	66
HW170.01403	14	3	7	30	45	.38	86
HW170.01404	14	4	7	30	45	.42	108
HW170.01405	14	5	7	30	45	.45	130
HW170.01407	14	7	7	30	60	.49	169
HW170.01409	14	9	7	30	60	.62	238
HW170.01412	14	12	7	30	60	.69	298
HW170.01419	14	19	7	30	60	.80	438
HW170.01425	14	25	7	30	60	.96	631
HW170.01430	14	30	7	30	60	1.04	721
HW170.01437	14	37	7	30	60	1.13	867

Tray Cables

TRAY CABLE - SHIELDED CONTROL CABLE

**600 Volt UL Type TC-LS, 90°C
XLP Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**



Application:

LifeGuard™ Low Smoke Zero Halogen* cable is for use in instrumentation and process control applications where protection from electrostatic interference is required. LifeGuard™ jacket is highly flame-retardant, produces very small amounts of smoke when burned and contains no halogens. LifeGuard™ cable is ideal for applications where a high degree of safety and equipment protection is required.

LifeGuard™ cable is UL listed as Type TC-LS and approved for installation indoors or outdoors, aerially, in conduits, ducts, cable trays and direct burial in circuits not exceeding 600 volts. It may be installed in temperatures as low as -30°C and used in NEC Class I and II, Division 2 hazardous locations. It is UL approved for continuous operation at 90°C in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Product Features:

- Tray rated
- Sunlight-resistant
- Approved for direct burial
- Tinned conductors provide ease of termination and added protection in caustic environments
- Superior electrostatic interference protection from overall shield
- Very low smoke production when burned
- LifeGuard™ jacket produces zero halogens during fire – less toxic and corrosive
- LifeGuard™ jacket is environmentally safe – lead, sulfur and halogen free
- Highly chemical resistant
- Very flame retardant
- Burns to an ash – does not exhibit thermoplastic drip
- Excellent compression and impact resistance
- Superior tensile strength and abrasion resistance
- Flexible jacket with low coefficient of friction

Conductors:

Tin coated soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation:

Cross-linked polyethylene (XLP) per UL Standard 44.

Overall Shield:

Aluminum-polymer tape providing 100% coverage with a flexible 7 strand tinned copper drain wire.

Jacket:

Sunlight-resistant and flame-retardant, Low Smoke Zero Halogen polyolefin per UL Standard 1277. A ripcord is applied longitudinally under the jacket to facilitate stripping.

Flame Tests:

UL Standard 1581 70,000 BTU/hr flame test

Color Code:

ICEA Method 1, Table E-1 and E-2

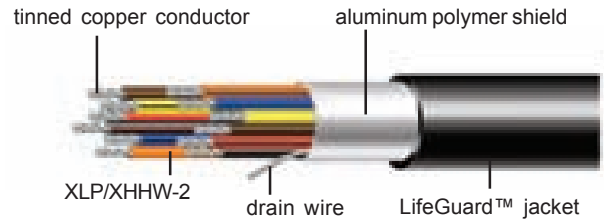
Additional Standards:

- UL Standard 1685
- NEC Type TC per articles 336, 392, and 501.4 (b) and Class 1 circuits per NEC article 725.

*Some cable insulations may contain trace amounts of halogens.

TRAY CABLE - SHIELDED CONTROL CABLE

**600 Volt UL Type TC-LS, 90°C
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**

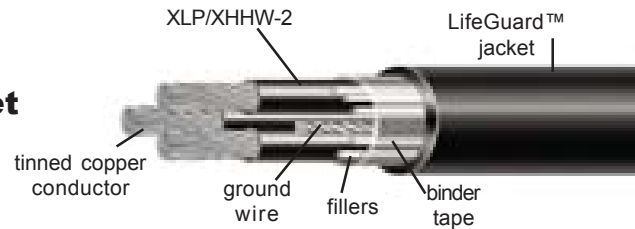


Catalog No.	Size AWG	No. of Conductors	No. of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW171 01602	16	2	7	30	45	.33	59
HW171 01603	16	3	7	30	45	.35	67
HW171 01604	16	4	7	30	45	.38	92
HW171 01605	16	5	7	30	45	.42	109
HW171 01607	16	7	7	30	45	.45	135
HW171 01609	16	9	7	30	45	.56	188
HW171 01612	16	12	7	30	45	.62	232
HW171 01615	16	15	7	30	60	.69	281
HW171 01619	16	19	7	30	60	.72	322

Tray Cables

TRAY CABLE - POWER CABLE

**600 Volt UL Type TC-LS, 90°C
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**



Application:

LifeGuard™ Low Smoke Zero Halogen* cable is for use in power, control and lighting circuits in a broad range of commercial and industrial applications. LifeGuard™ jacket is highly flame retardant, produces very small amounts of smoke when burned and contains no halogens. LifeGuard™ cable is ideal for applications where a high degree of safety and equipment protection is required.

LifeGuard™ cable is UL listed as Type TC-LS and approved for installation indoors or outdoors, aerially, in conduits, ducts, cable trays and direct burial in circuits not exceeding 600 volts. It may be installed in temperatures as low as -30°C and used in NEC Class I and II, Division 2 hazardous locations. It is UL approved for continuous operation at 90°C in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Product Features:

- Tray rated
- Sunlight-resistant
- Approved for direct burial
- Tinned conductors provide ease of termination and added protection in caustic environments
- Very low smoke production when burned
- LifeGuard™ jacket produces zero halogens during fire – less toxic and corrosive
- LifeGuard™ jacket is environmentally safe – lead, sulfur and halogen free
- Highly chemical resistant
- Very flame retardant
- Burns to an ash – does not exhibit thermoplastic drip
- Excellent compression and impact resistance
- Superior tensile strength and abrasion resistance
- Flexible jacket with low coefficient of friction

Conductors:

Tin coated soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation:

Cross-linked polyethylene (XLP) per UL Standard 44 for Type XHHW-2 conductors.

Jacket:

Sunlight-resistant and flame-retardant, Low Smoke Zero Halogen polyolefin per UL Standard 1277. A ripcord is applied longitudinally under the jacket to facilitate stripping.

Flame Tests:

UL Standard 1581 70,000 BTU/hr flame test

Color Code:

ICEA Method 4

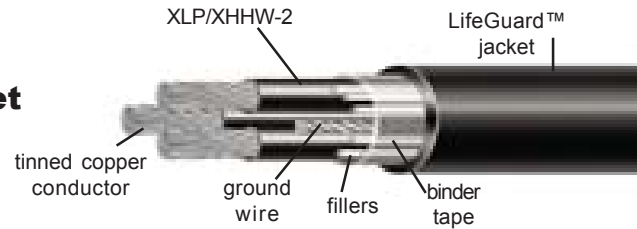
Additional Standards:

- UL Standard 1685
- NEC Type TC per articles 336, 392, and 501.4 (b) and Class 1 circuits per NEC article 725.

*Some cable insulations may contain trace amounts of halogens.

TRAY CABLE - POWER CABLE

**600 Volt UL Type TC-LS, 90°C
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**

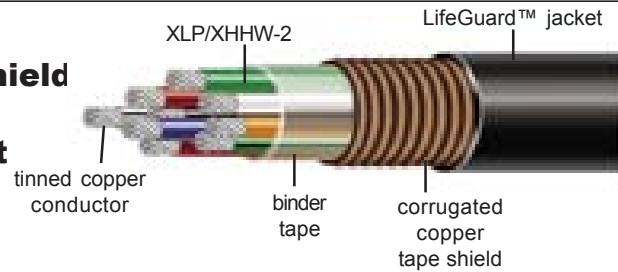


Catalog No.	Size AWG/kcmil	Number of Conductors	Number of Strands	Insulation Thickness Mils	Ground Wire Size AWG	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW172 00803	8	3	7	45		60	.63	238
HW172 0803G	8	3	7	45	10	60	.63	267
HW172 00804	8	4	7	45		60	.70	305
HW172 0804G	8	4	7	45	10	60	.70	339
HW172 00603	6	3	7	45		60	.71	390
HW172 0603G	6	3	7	45	8	60	.71	437
HW172 00604	6	4	7	45		60	.78	497
HW172 0604G	6	4	7	45	8	60	.78	495
HW172 00408	4	3	7	45		80	.81	564
HW172 0408G	4	3	7	45	8	80	.81	612
HW172 00404	4	4	7	45		80	.94	763
HW172 0404G	4	4	7	45	8	80	.94	814
HW172 0203G	2	3	7	45	6	80	.98	867
HW172 0204G	2	4	7	45	6	80	1.08	1087
HW172 1003G	1/0	3	19	55	6	80	1.20	1390
HW172 2003G	2/0	3	19	55	6	80	1.30	1676
HW172 4003G	4/0	3	19	55	4	80	1.53	2523
HW172 4004G	4/0	4	19	55	4	110	1.79	3630
HW172 2503G	250	3	37	65	4	110	1.78	3296
HW172 2504G	250	4	37	65	3	110	1.90	4210
HW172 3503G	350	3	37	65	3	110	2.00	3643
HW172 3504G	350	4	37	65	3	110	2.21	4743
HW172 5003G	500	3	37	65	2	110	2.29	6116
HW172 5004G	500	4	37	65	1	110	2.54	7881
HW172 7503G	750	3	61	80	2/0	140	2.81	9101

Tray Cables

TRAY CABLE - SUBSTATION CONTROL CABLE

**600 Volt UL Type TC-LS, 90°C
Corrugated 5 Mil Copper Tape Shield
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**



Application:

LifeGuard™ Low Smoke Zero Halogen* cable is for use in power, control and lighting circuits in a broad range of utility substation applications where shielding from ambient electrical interference is required.

LifeGuard™ jacket is highly flame retardant, produces very small amounts of smoke when burned and contains no halogens. LifeGuard™ cable is ideal for applications where a high degree of safety and equipment protection is required.

LifeGuard™ cable is UL listed as Type TC-LS and approved for installation indoors or outdoors, aerially, in conduits, ducts, cable trays and direct burial in circuits not exceeding 600 volts. It may be installed in temperatures as low as -30°C and used in NEC Class I and II, Division 2 hazardous locations. It is UL approved for continuous operation at 90°C in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Product Features:

- Tray rated
- Sunlight-resistant
- Approved for direct burial
- Tinned conductors provide ease of termination and added protection in caustic environments
- Superior electrostatic interference protection from flexible copper tape shield
- Very low smoke production when burned
- LifeGuard™ jacket produces zero halogens during fire – less toxic and corrosive
- LifeGuard™ jacket is environmentally safe – lead, sulfur and halogen free
- Highly chemical resistant
- Very flame retardant
- Burns to an ash – does not exhibit thermoplastic drip
- Excellent compression and impact resistance
- Superior tensile strength and abrasion resistance
- Flexible jacket with low coefficient of friction

Conductors:

Tin coated soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation:

Cross-linked polyethylene (XLP) per UL Standard 44 for Type XHHW-2 conductors.

Overall Shield:

Longitudinally applied 5 mil corrugated copper tape shield.

Jacket:

Sunlight-resistant and flame-retardant, Low Smoke Zero Halogen polyolefin per UL Standard 1277. A ripcord is applied longitudinally under the jacket to facilitate stripping.

Flame Test:

UL Standard 1581 70,000 BTU/hr flame test

Color Code:

ICEA Method 1, Table E-1

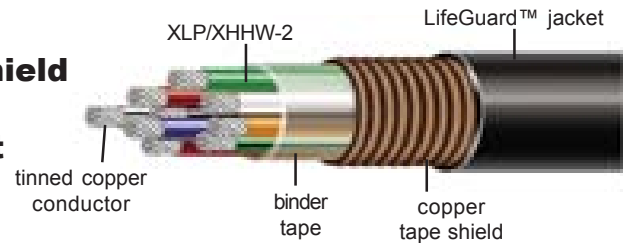
Additional Standards:

- UL Standard 1685
- NEC Type TC per articles 336, 392, and 501.4 (b) and Class 1 circuits per NEC article 725.

*Some cable insulations may contain trace amounts of halogens.

TRAY CABLE - SUBSTATION CONTROL CABLE

**600 Volt UL Type TC-LS, 90°C
Corrugated 5 Mil Copper Tape Shield
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**

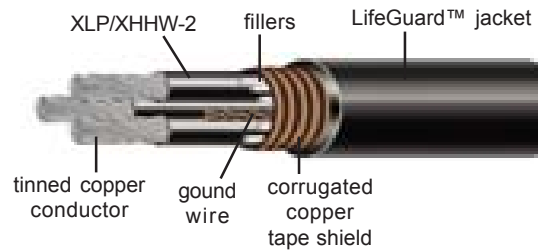


Catalog No.	Size AWG	No. of Conductors	No. of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW173 01404	14	4	7	30	45	.48	144
HW173 01407	14	7	7	30	45	.60	231
HW173 01412	14	12	7	30	60	.75	348
HW173 01419	14	19	7	30	80	.90	534
HW173 01204	12	4	7	30	45	.52	182
HW173 01207	12	7	7	30	45	.65	296
HW173 01212	12	12	7	30	60	.82	463
HW173 01219	12	19	7	30	80	.99	718
HW173 01004	10	4	7	30	45	.62	265
HW173 01005	10	5	7	30	60	.61	318
HW173 01007	10	7	7	30	60	.72	408
HW173 01012	10	12	7	30	80	.96	695
HW173 01019	10	19	7	30	80	1.12	1015

Tray Cables

TRAY CABLE - SUBSTATION POWER CABLE

600 Volt UL Type TC-LS, 90°C
Corrugated 5 Mil Copper Tape Shield
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors



Application:

LifeGuard™ Low Smoke Zero Halogen* cable is for use in power, control and lighting circuits in a broad range of utility substation applications where shielding from ambient electrical interference is required.

LifeGuard™ jacket is highly flame retardant, produces very small amounts of smoke when burned and contains no halogens. LifeGuard™ cable is ideal for applications where a high degree of safety and equipment protection is required.

LifeGuard™ cable is UL listed as Type TC-LS and approved for installation indoors or outdoors, aerially, in conduits, ducts, cable trays and direct burial in circuits not exceeding 600 volts. It may be installed in temperatures as low as -30°C and used in NEC Class I and II, Division 2 hazardous locations. It is UL approved for continuous operation at 90°C in wet and dry locations, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

Product Features:

- Tray rated
- Sunlight-resistant
- Approved for direct burial
- Tinned conductors provide ease of termination and added protection in caustic environments
- Superior electrostatic interference protection from flexible copper tape shield
- Very low smoke production when burned
- LifeGuard™ jacket produces zero halogens during fire – less toxic and corrosive
- LifeGuard™ jacket is environmentally safe – lead, sulfur and halogen free
- Highly chemical resistant
- Very flame retardant
- Burns to an ash – does not exhibit thermoplastic drip
- Excellent compression and impact resistance
- Superior tensile strength and abrasion resistance
- Flexible jacket with low coefficient of friction

*Some cable insulations may contain trace amounts of halogens.

Conductors:

Tin coated soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8.

Insulation:

Cross-linked polyethylene (XLP) per UL Standard 44 for Type XHHW-2 conductors.

Overall Shield:

Longitudinally applied 5 mil corrugated copper tape shield.

Grounding Conductor:

Soft annealed copper per ASTM B-33, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277

Jacket:

Sunlight-resistant and flame-retardant, Low Smoke Zero Halogen polyolefin per UL Standard 1277. A ripcord is applied longitudinally under the jacket to facilitate stripping.

Flame Test:

UL Standard 1581 70,000 BTU/hr flame test

Color Code:

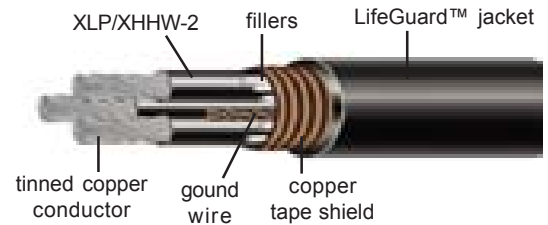
ICEA Method 1, Table E-1

Additional Standards:

- UL Standard 1685
- NEC Type TC per articles 336, 392, and 501.4 (b) and Class 1 circuits per NEC article 725

TRAY CABLE - SUBSTATION POWER CABLE

**600 Volt UL Type TC-LS, 90°C
Corrugated 5 Mil Copper Tape Shield
XLP XHHW-2 Insulation
Low Smoke Zero Halogen Jacket
Tinned Copper Conductors**



Catalog No.	Size AWG/kcmil	Number of Conductors	Number of Strands	Insulation Thickness Mils	Ground Wire Size AWG	Jacket Thickness Mils	Overall Diameter Inch	Net Weight Lbs/Mft
HW174 00804	8	4	7	45		60	.76	422
HW174 0804G	8	4	7	45	10	60	.76	475
HW174 00604	6	4	7	45		60	.89	513
HW174 0604G	6	4	7	45	8	60	.89	577
HW174 00404	4	4	7	45		60	1.01	750
HW174 0404G	4	4	7	45	8	60	1.01	808
HW174 00204	2	4	7	45		80	1.15	890
HW174 0204G	2	4	7	45	6	80	1.15	960
HW174 1004G	1/0	4	19	55	6	80	1.46	2057
HW174 2004G	2/0	4	19	55	6	80	1.56	2464
HW174 4004G	4/0	4	19	55	4	110	1.80	3640
HW174 2503G	250	3	37	65	4	110	1.75	3265
HW174 3503G	350	3	37	65	3	110	2.01	3653
HW174 5003G	500	3	37	65	2	110	2.30	6126

Tray Cables

