

ROME HL TECK 90 MINUS 40C, FT4, 600 VOLTS

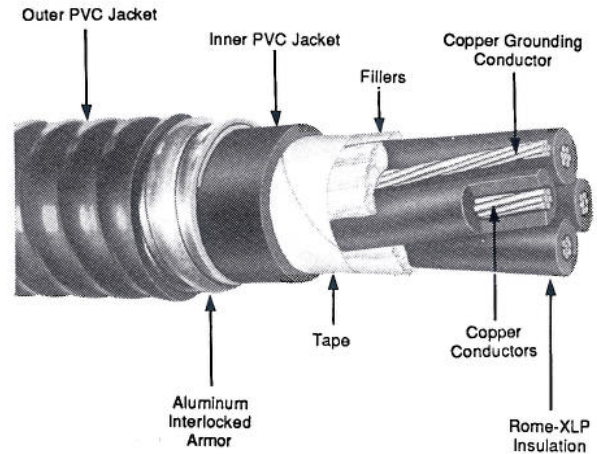
14 AWG Multiconductor RW90 (.030" XLPE Insulation)
 No. 14 AWG Grounding Conductor
 Inner PVC Jacket, Aluminum Armor, Outer PVC Jacket

APPLICATION: As flame retardant multiconductor control, signal or power cables rated 600 volts, 90C in wet or dry locations. Widely used in the pulp and paper, petroleum, petrochemical, mining industries where cables with outstanding resistance to mechanical abuse, chemical attack and high reliability are required. Suitable for use in direct burial, open wiring, ventilated flexible cableways, and in non-ventilated, ventilated or ladder type cable trays. Inner and outer PVC jacket have low acid gas evolution and low flame spread properties along with excellent low temperature properties.

STANDARDS:

1. Listed as TECK 90 MINUS 40C per CSA Std C22.2 No. 131.
2. Passes FT-4 70000 BTU/Hr cable tray flame test of CSA Std C22.2 No. 0.3.
3. Complies with Acid Gas Evolution Test of Ontario Hydro Provisional Spec L-891SM-77. Less than 14% acid gas evolution.
4. HL approved for use in hazardous locations per CSA Std C22.2 No. 174.

CONSTRUCTION: Stranded uncoated concentric copper conductors, 30 mils Rome-XLP crosslinked polyethylene insulation, color coded. Two or more conductors twisted with one No. 14 AWG 7-strand bare copper grounding conductor and suitable fillers, tape, PVC inner jacket, aluminum interlocked armor, PVC outer jacket, surface printed.



No. of Condrs.	Inner Jacket Thickness		Diameters						Weight		Connectors	
			Inner Jacket		Armor		Outer Jacket					
	Mils	mm	In.	mm	In.	mm	In.	mm	lb/k ft.	kg/km	T & B	Crouse-Hinds
2	45	1.14	.385	9.78	.550	14.6	.655	16.6	210	312	10464	0100219
3	45	1.14	.405	10.3	.570	14.5	.677	17.2	230	342	10464	0100219
4	45	1.14	.443	11.3	.607	15.4	.713	18.1	270	402	10464	0100219
5	45	1.14	.482	12.2	.647	16.4	.752	19.1	300	446	10465	0100220
6	45	1.14	.525	13.3	.690	17.5	.795	20.2	330	491	10465	0100220
7	45	1.14	.525	13.3	.690	17.5	.795	20.2	350	521	10465	0100220
8	60	1.52	.597	15.2	.762	19.4	.867	22.0	405	603	10465	0100220
9	60	1.52	.638	16.2	.803	20.4	.908	23.1	435	647	10467	0100222
10	60	1.52	.692	17.6	.857	21.8	.962	24.4	505	752	10467	0100222
11	60	1.52	.692	17.6	.857	21.8	.962	24.4	525	781	10467	0100222
12	60	1.52	.715	18.2	.879	22.3	.984	25.0	545	811	10467	0100222
13	60	1.52	.725	18.4	.890	22.6	1.00	25.4	570	848	10467	0100222
14	60	1.52	.750	19.0	.915	23.2	1.02	25.9	640	952	10467	0100222
15	60	1.52	.789	20.0	1.01	25.6	1.12	28.4	660	982	10468	0100223
16	60	1.52	.789	20.0	1.01	25.6	1.12	28.4	690	1027	10468	0100223
17	60	1.52	.830	21.1	1.05	26.7	1.16	29.5	720	1072	10469	0100223
18	60	1.52	.830	21.1	1.05	26.7	1.16	29.5	750	1116	10469	0100223
19	60	1.52	.830	21.1	1.05	26.7	1.16	29.5	770	1146	10469	0100223
20	80	2.03	.913	23.2	1.13	28.7	1.24	31.5	790	1176	10469	0100224
25	80	2.03	1.01	25.6	1.23	31.2	1.33	33.8	960	1429	10470	0100224
30	80	2.03	1.07	27.2	1.29	32.8	1.39	35.3	1110	1652	10470	0100225
40	80	2.03	1.19	30.2	1.41	35.8	1.52	38.6	1330	1979	10550	0100225
50	80	2.03	1.34	34.0	1.56	39.6	1.67	42.4	1530	2277	10470	0100226

- NOTES:**
1. Cable weight based upon aluminum armor. Galvanized steel armor available upon request.
 2. Standard color coding is; black, white (2/C); black, red blue (3/C); black, red, blue, white (4/C); printed numbers (5/C and up).
 3. Also available with 1KV voltage rating.

Information on this sheet subject to change without notice.

Specification

ROME HL TECK 90 MINUS 40C, FT4, 600 VOLTS

14AWG Multiconductor RW90 (.030" XLPE Insulation)

1. SCOPE

- 1.1 This specification describes multiconductor 14AWG Rome TECK 90 MINUS 40C cable with Rome-XLP crosslinked polyethylene insulation, PVC inner jacket, aluminum interlocked armor, and PVC outer jacket. The cables may be used in circuits not exceeding 600 volts at temperatures of 90C in wet or dry locations. Cables are intended for use indoors or outdoors in open wiring, ventilated flexible cableways, cable trays and direct burial installations in commercial or industrial applications.

2. STANDARDS

- 2.1 The following standards shall form a part of this specification to the extent specified herein:
 - 2.1.1 CSA Std C22.2 No. 131 TECK 90 MINUS 40C cable.
 - 2.1.2 CSA Std C22.2 No. 0.3 Clause 4.11.4 FT-4 flame test.
 - 2.1.3 Ontario Hydro Provisional Spec L891SM-77.
 - 2.1.4 CSA Std C22.2 No. 174 Cables and Cable Glands for Use In Hazardous Locations.
 - 2.1.5 CSA Std C22.2 No. 38 Thermoset Insulated Wires and Cables.

3. CONDUCTORS

- 3.1 Shall be 14 AWG Class B concentric stranded annealed uncoated copper conforming to CSA C22.2 No. 131. A nonhygroscopic separator may be used over the conductor at the option of the manufacturer.

4. INSULATION

- 4.1 Shall be Rome-XLP crosslinked polyethylene meeting the requirements of CSA C22.2 No. 38 for Type RW90. Average thickness of insulation shall be 30 mils. Minimum thickness at any point shall be not less than 90% of the specified average thickness.

5. CIRCUIT IDENTIFICATION

- 5.1 Conductors shall be colored; black,white (2/C); black, red, blue (3/C); black, red, blue, white (4/C). Cables with more than four conductors shall have circuit identification consisting of printed numbers.

6. ASSEMBLY

- 6.1 Insulated circuit conductors shall be cabled together with a 14 AWG 7 -strand uncoated copper grounding conductor and nonhygroscopic fillers where necessary. Maximum length of lay shall be as specified in Table 3 of CSA C22.2 No. 131. A suitable nonhygroscopic tape may be applied over the assembly.

7. INNER PVC JACKET

- 7.1 Shall be PVC meeting the requirements of C22.2 No. 131 including requirements for low temperature classification of -40C. Thickness of jacket shall be as specified in Table 6 of C22.2 No. 131.

8. INTERLOCKED ARMOR

- 8.1 An aluminum alloy interlocked armor shall be applied over the inner PVC jacket meeting the requirements of C22.2 No. 131, Clause 4.11.

9. OUTER JACKET

- 9.1 Cables shall be covered with a black PVC jacket meeting the requirements of C22.2 No. 131 including requirements for low temperature classification of -40C. Thickness of covering shall not be less than 40 mils.

10. IDENTIFICATION

- 10.1 Cables shall be surface ink printed with a legend identifying the manufacturer, number of conductors, size, voltage rating, TECK 90 MINUS 40C, XLPE, FT4, HL and length markings in meters.

11. TESTS

- 11.1 Completed cable shall be capable of compliance with the FT4 flame test of C22.2 No. 0.3, HL requirements of C22.2 No. 174 and acid gas evolution test of OH L891-SM77 in addition to the requirements for Type TECK 90 MINUS 40C cable in C22.2 No. 131.