

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

12AWG Multiconductor RW90 (.030" XLPE Insulation)

No. 14 AWG Grounding Conductor

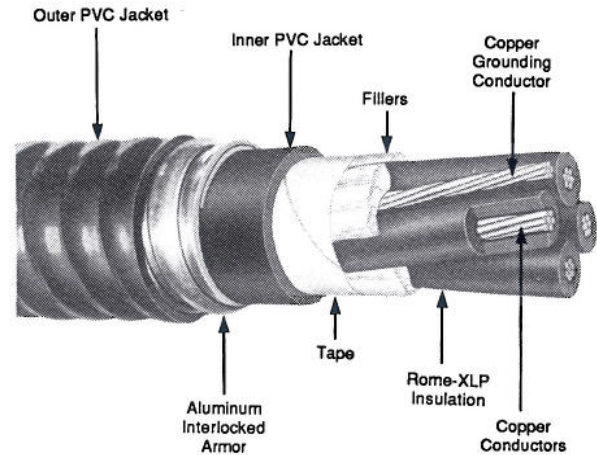
Inner PVC Jacket, Aluminum Armor, Outer PVC Jacket

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
2	45	1.14	.425	10.8	.590	15.0	.695	17.6	245	365	10464	0100219
3	45	1.14	.450	11.4	.615	15.6	.720	18.3	280	417	10464	0100219
4	45	1.14	.490	12.4	.655	16.6	.760	19.3	325	484	10465	0100220
5	60	1.52	.567	14.4	.735	18.7	.840	21.3	375	558	10465	0100220
6	60	1.52	.615	15.6	.780	19.8	.884	22.4	445	662	10467	0100220
7	60	1.52	.615	15.6	.780	19.8	.884	22.4	470	699	10467	0100220
8	60	1.52	.665	16.9	.830	21.1	.933	23.7	515	766	10467	0100222
9	60	1.52	.710	18.0	.875	22.2	.980	24.9	550	818	10467	0100222
10	60	1.52	.770	19.6	.990	25.1	1.10	27.9	630	938	10468	0100223
11	60	1.52	.770	19.6	.990	25.1	1.10	27.9	660	982	10468	0100223
12	60	1.52	.795	20.2	1.02	25.9	1.12	28.4	700	1042	10468	0100223
13	60	1.52	.810	20.6	1.03	26.2	1.14	29.0	730	1086	10468	0100223
14	60	1.52	.838	21.3	1.06	26.9	1.16	29.5	770	1146	10469	0100223
15	80	2.03	.923	23.4	1.14	29.0	1.25	31.8	810	1205	10469	0100224
16	80	2.03	.923	23.4	1.14	29.0	1.25	31.8	840	1250	10469	0100224
17	80	2.03	.970	24.6	1.19	30.2	1.30	33.0	930	1384	10469	0100224
18	80	2.03	.970	24.6	1.19	30.2	1.30	33.0	960	1429	10469	0100224
19	80	2.03	.970	24.6	1.19	30.2	1.30	33.0	990	1473	10469	0100224
20	80	2.03	1.02	25.9	1.24	31.5	1.34	34.0	1020	1518	10470	0100225
25	80	2.03	1.13	28.7	1.35	34.3	1.46	37.1	1195	1778	10470	0100225
30	80	2.03	1.20	30.5	1.42	36.1	1.52	38.6	1390	2069	10550	0100225
40	80	2.03	1.34	34.0	1.56	39.6	1.66	42.2	1710	2545	10471	0100226
50	80	2.03	1.51	38.4	1.73	43.9	1.84	46.7	2050	3051	10472	0100227

- 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

12AWG Multiconductor RW90 (.030" XLPE Insulation)

1. SCOPE

- 1.1 This specification describes multiconductor 12AWG 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 Conductors shall be 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 14AWG 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 the acid gas evolution test of OH L891SM-77 in addition to the requirements for Type TECK 90 MINUS 40C cable in C22.2 No. 131.