

DATE: 03-6-2012
 Revision 0

PRODUCT SPECIFICATION

TYPE: Flexible Locomotive & Car Equipment Cable (DLO)
 2000 Volt, 90°C
 Heat Resisting Ethylene Propylene Rubber Insulation (EPR)
 Heavy-Duty Hypalon Jacket
 UL Listed Type RHH or RHW-2, 2KV, VW-1 per UL 44
 CSA Listed Type RW90 EP, 1KV, FT-1 per C22.2 No.38
 MSHA Approved P-7K-MSHA
 Sizes 1/0 AWG and larger are CSA Type TC, FT 4

SIZE: 262.6 KCMIL

I. SCOPE:

This specification covers the minimum construction requirements for single conductor electric cables for use in wiring Locomotive and Car Equipment or similar applications requiring a UL Listed Type RHH/RHW-2 flexible stranded power cable.

These cables are rated at 2000 Volts for use at conductor temperatures up to 90°C in wet or dry locations.

The construction consists of flexible stranded, tin-coated copper conductors insulated with clean stripping Ethylene Propylene Rubber (EPR) insulation and jacketed with heavy-duty Chlorosulfonated Polyethylene (Hypalon) rubber.

These cables pass the Cold Bend Test at -40°C and may be flexed at temperatures -25°C and warmer.

II. CONSTRUCTION DATA:

SIZE	NUMBER OF STRANDS	CONDUCTOR O.D. (INCHES)	INSULATION MIN. AVG. WALL (MILS)	OUTER INSULATION/JACKET		NOMINAL WEIGHT (LBS/MFT)
				MIN. AVG. WALL (MILS)	NOMINAL O.D. (INCHES)	
262.6 KCMIL	646	.640	90	65	0.956	1070

A. CONDUCTOR:

Class I, Tin-coated annealed copper per ASTM B-33 and B-172 or B-174.

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B. SEPARATOR:

A paper separator tape is used over the conductor to facilitate stripping.

C. INSULATION:

Ethylene Propylene Rubber (EPR) conforming to UL 1581 for Class 28 Table 50.42, UL 44 requirements for RHW and RHW-2, ASTM D-2270 and ICEA

S-95-658 Class E-1. It shall be suitable for conductor temperatures up to 90 °C in wet or dry locations for continuous use, 130 °C for emergency overloads, and 250 °C for short circuits.

D. JACKET:

Chlorosulfonated Polyethylene (Hypalon) conforming to ICEA S-95-658 Par. 4.1.11 and UL 1581 Table 50.1.

E. SAMPLE PRINT LEGEND:

“262.6 KCMIL TYPE RHH OR RHW-2 2 KV (-40C) SUN RES FOR CT
USE FT4/IEEE 1202 (UL) E18321 ---A.I.W. CORP. ---(CSA LOGO)
LL8825 RW90 250 KCMIL EP 1 KV (-40C) EP/JKT OIL RES TC FT4 ---
EPR/HYP 2KV DIESEL LOCOMOTIVE CABLE P-7K-136047-1-MSHA”