

Diesel Locomotive Cable Copper

EPR Insulated, CPE Jacketed, 2000 V

CME[®]
wire and cable

A Viakable Company

Features

Cable is Listed RHH/RHW-2 per UL, and Listed RW90/R90 per CSA.

Jacket is rated Oil Resistance I or II rated per UL 44.

All sizes meet VW-1 flame test.

Type RHH/RHW-2 is rated Sun Resistance For CT use, 1/0 AWG and larger.

Type RW90/R90 is rated -40 °C and FT4.

Meets vertical flame tests.

70,000 BTU's:

- UL 1277
- IEEE 383
- ICEA T-30-520
- FT4/IEEE 1202

210,000 BTU's:

- ICEA T29-520

P-07-KA040015-MSHA

Application

As power cable used in DLO Locomotive Cable, railroad and transit car wiring where high reliability is required.

Also suitable for use in static and dynamic wind power applications. For portable and fixed installations leads for motors, generators, batteries.

Standards

AAR RP-588

Wire and Cable Insulating Material Per AAR Manual of Standard and Recommended Practices and Locomotive Interchange Equipment.

UL 44

Rubber Insulated Wires and Cables.

CSA C22.2 No. 38

Thermoset Insulated Wires and Cables.

ICEA S-95-658/NEMA WC70

Nonshielded 0 – 2000 V Cables.

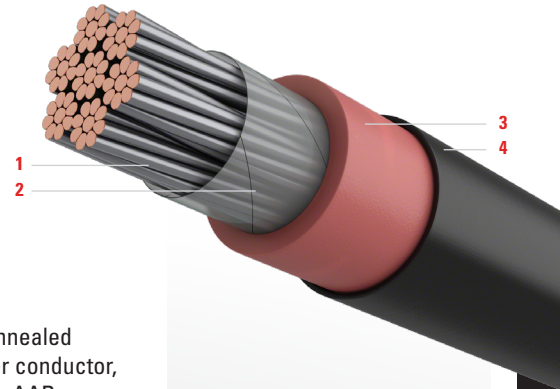
Specifications

Maximum operating voltage:

- 2000 volts

Maximum conductor operation temperatures:

- 90 °C wet and dry locations
- 140 °C Emergency Rating
- 250 °C Short Circuit Rating



Engineering Information

1. Conductor: Soft annealed tinned coated copper conductor, flexible stranding per AAR RP-588, and ASTM B3, B172, B174 as applicable.

On request, uncoated copper wires.

Sizes: 14 AWG – 1111 kcmil.

2. Separator: A suitable opaque tape, as required.

3. Insulation: Flame retardant thermoset ethylene propylene rubber (EPR), meeting the requirements of UL 44.

4. Jacket: Black flame retardant thermoset chlorinated polyethylene (CPE) jacket, meeting the requirements of UL 44.

Technical Data

DLO 2000 V EPR Insulated, Stranding Per UL 44

Size AWG or kcmil	Number of Strands (Stranding Class I)	Size of Each Strand	Insulation Thickness	Jacket Thickness	Nominal Outside Diameter	Approximate Total Weight
		AWG	mil	mil	in	lb/kft
14	19	27	45	25	0.22	33
12	19	25	45	30	0.25	46
10	27	24	45	30	0.28	65
8	37	24	60	30	0.33	91
6	63	24	60	30	0.39	136
4	105	24	60	30	0.45	201
2	154	24	60	30	0.51	274
1	224	24	80	45	0.65	419
1/0	273	24	80	45	0.69	492
2/0	323	24	80	45	0.74	575
3/0	426	24	80	45	0.83	770
4/0	551	24	80	45	0.89	884
262.6	646	24	95	65	1.01	1114
313.1	779	24	95	65	1.08	1309
373.7	931	24	95	65	1.14	1528
444.4	1110	24	95	65	1.22	1785
535.3	1332	24	110	65	1.33	2140
646.4	1591	24	110	65	1.42	2546
777.7	1952	24	110	65	1.53	3017
929.2	2318	24	110	65	1.64	3529
1111.1	2745	24	125	95	1.85	4291

The above data are approximate and subject to normal manufacturing tolerances.
Ampacities: Refer to beginning of section.