DLO Cable Extreme Torsion Copper

EPR Insulated, CPE Jacketed, 600 V, 1000 V, 2000 V

CME wire and cable
A Viakable Company

Features

Cable meets the 150 °/m Torsion Test for Windpower Turbine Cable in lieu of the 92 °/m standard test.

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

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

All sizes are rated VW-1.

Cable is rated Sun Resistance for CT use, and FT4, 1/0 AWG and larger and –40 °C.

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

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

Also as power cable used as DLO Locomotive Cable in railroad and transit car wiring.

Standards

UL 44

Rubber Insulated Wires and Cables.

CSA C22.2 No. 38

Thermoset Insulated Wires and Cables.

Recommended Practice RP-588.

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

ICEA S-95-658/NEMA WC70

Nonshielded 0 – 2000 V Cables.

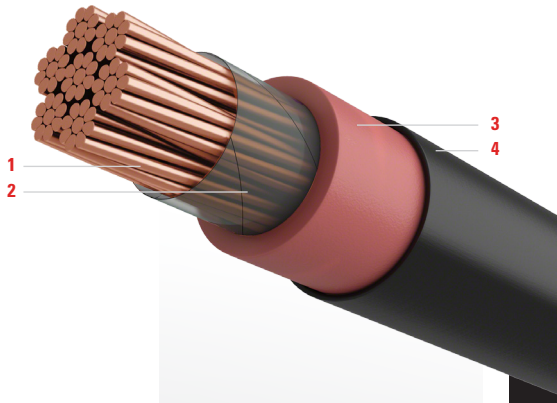
Specifications

Maximum operating voltage:

- RHH/RHW-2: 600 V or 2000 V R90/RW90: 600 V, 1000 V and 2000 V

Maximum conductor operation temperatures:

- RHH/RHW-2: 90 °C wet and dry
- R90: 90 °C dry
- RW90: 90 °C wet and dry



Engineering Information

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

On request, tinned coated copper wires.

Sizes: 14 AWG – 1111 kcmil.

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

3. Insulation: Flame retardant thermoset ethylene propylene rubber (EPR).

4. Jacket: Black flame retardant thermoset chlorinated polyethylene (CPE) jacket.

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Technical Data

RHW-2 600 V & RW90 1000 V EPR Insulated

Size AWG or kcmil	Number of Strands	Size of Each Strand	Insulation Thickness	Jacket Thichness	Nominal Outside Diameter	Approximate Total Weight
		AWG	mil	mil	in	lb/kft
8	37	24	45	30	0.30	81
6	63	24	60	30	0.39	136
4	105	24	60	30	0.45	202
2	154	24	60	30	0.51	276
1	224	24	80	45	0.64	421
1/0	273	24	80	45	0.68	494
2/0	323	24	80	45	0.74	578
3/0	426	24	80	45	0.83	775
4/0	551	24	80	45	0.88	890
262.6	646	24	90	65	1.00	1110
313.1	779	24	90	65	1.06	1306
373.7	931	24	90	65	1.13	1527
444.4	1110	24	90	65	1.20	1786
535.3	1332	24	90	65	1.29	2104
646.4	1591	24	90	65	1.37	2511
777.7	1952	24	90	65	1.49	2983
929.2	2318	24	90	65	1.59	3500
1111.1	2745	24	110	95	1.81	4270

RHW 2000 V & RW90 1000 V EPR Insulated

Size AWG or kcmil	Number of Strands	Size of Each Strand	Insulation Thickness	Jacket Thichness	Nominal Outside Diameter	Approximate Total Weight
		AWG	mil	mil	in	lb/kft
8	37	24	70	30	0.35	97
6	63	24	70	30	0.41	144
4	105	24	70	30	0.47	211
2	154	24	70	45	0.56	302
1	224	24	90	45	0.66	433
1/0	273	24	90	45	0.70	508
2/0	323	24	90	45	0.76	592
3/0	426	24	90	45	0.85	791
4/0	551	24	90	65	0.94	945
262.6	646	24	105	65	1.03	1140
313.1	779	24	105	65	1.09	1337
373.7	931	24	105	65	1.16	1560
444.4	1110	24	105	65	1.23	1821
535.3	1332	24	120	65	1.35	2181
646.4	1591	24	120	65	1.44	2593
777.7	1952	24	120	65	1.55	3071
929.2	2318	24	120	65	1.65	3594
1111.1	2745	24	140	95	1.87	4377

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

Technical Data *continued*

RHW 2000 V & RW90 2000 V EPR Insulated

Size AWG or kcmil	Number of Strands	Size of Each Strand	Insulation Thickness	Jacket Thichness	Nominal Outside Diameter	Approximate Total Weight
		AWG	mil	mil	in	lb/kft
8	37	24	70	30	0.35	97
6	63	24	70	30	0.41	144
4	105	24	70	30	0.47	211
2	154	24	70	45	0.56	302
1	224	24	90	45	0.66	433
1/0	273	24	90	45	0.70	508
2/0	323	24	90	45	0.76	592
3/0	426	24	90	45	0.85	791
4/0	551	24	90	65	0.94	945
262.6	646	24	105	65	1.03	1140
313.1	779	24	105	65	1.09	1337
373.7	931	24	105	65	1.16	1560
444.4	1110	24	105	65	1.23	1821
535.3	1332	24	120	65	1.35	2181
646.4	1591	24	120	65	1.44	2593
777.7	1952	24	120	65	1.55	3071
929.2	2318	24	120	65	1.65	3594
1111.1	2745	24	140	95	1.87	4377

The above data are approximate and subject to normal manufacturing tolerances.
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