



Specification Sheet

BWC Part Number #: BWC-646-01DLO

DLO - Diesel Locomotive Cable 90°C 2000V

Application

Diesel Locomotive (DLO) Cable is designed for wiring Diesel-electric locomotives, telecom power supplies, shipyards, motor leads, mining and earth-moving equipment, and oil and gas rigs. It is also used in applications where flexibility and durability are required. The cable is suitable for use in wet and dry areas, conduits, ducts, troughs, and trays where superior electrical properties are desirable. It is rated for applications up to 2000 volts and for temperatures ranging from -40°C to +90°C.

Construction

- **Conductor:** The conductor is a fully annealed, flexible strand Class I tinned copper, compliant with ASTM B-172, ASTM B-174, and ASTM B-33.
- **Separator:** A tape separator is placed between the conductor and insulation on all sizes except for 14 AWG.
- **Insulation:** The insulation is Ethylene-Propylene Rubber (EPR), rated for 90°C.
- **Jacket:** The cable features a black, heavy-duty thermoset CPE jacket that is resistant to ozone, sunlight, oil, grease, weather, chemicals, and abrasion.

Standards

- Type RHH/RHW-2 per UL 44
- Limited Smoke ST1 in accordance with UL1685 vertical flame test
- Rated RW90-TC for Tray Cable use in sizes 1/0 & larger
- IEEE 1202
- AAR RP-588, RP-586 Approved
- MSHA Approved
- VW-1 Flame Test
- ICEA S-95-658 and NEMA WC-70
- CSA Listed RW90, RW90-TC 1kV



- CSA C22.2 No. 38 and No. 230

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Information on this specification is subject to change without notice. REV 03062023





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Part Number	Cond. Size AWG	COND. STANDING No./AWG	NOM. COND. DIAMETER INCH/MM	NOM. INSUL. THICKNESS INCH/MM	NOM. JACKET THICKNESS INCH/MM	NOM. OVERALL DIAMETER INCH/MM	NOMINAL NET WEIGHT LBS/KFT	AMPACITY ** AT 30C IN ARI
BWC-1401DLO	14	19/27	.072/1.83	.045/1.14	.015/.38	.192/4.88	28	35
BWC-12-01DLO	12	19/25	.091/2.31	.045/1.14	.015/.38	.215/5.46	38	40
BWC-10-01DLO	10	27/24	.123/3.12	.045/1.14	.030/.76	.277/7.04	63	55
BWC-801DLO	8	41/24	.148/3.76	.055/1.40	.030/.76	.302/7.67	92	80
BWC-6-01DLO	6	65/24	.186/4.72	.060/1.52	.030/.76	.370/9.40	128	105
BWC-4-01DLO	4	105/24	.240/6.10	.060/1.52	.030/.76	.424/10.77	188	140
BWC-2-01DLC	2	168/24	.315/8	.060/1.52	.045/1.14	.528/13.41	292	190
BWC-1-01DLC	1	225/24	.363/9.22	.08/2.03	.045/1.14	.613/15.57	394	220
BWC-1/0-01DLO	1/0	273/24	.417/10.59	.08/2.03	.045/1.14	.671/17.04	468	260
BWC-2/0-01DLO	2/0	329/24	.457/11.61	.08/2.03	.045/1.14	.711/18.06	545	300
BWC-3/0-01DLO	3/0	450/24	.533/13.54	.08/2.03	.045/1.14	.787/19.99	720	350
BWC-4/0-01DLO	4/0	551/24	.59/14.99	.08/2.03	.065/1.65	.884/22.45	886	405
BWC-262-01DLO	262.6	644/24	.636/16.15	.09/2.29	.065/1.65	.950/24.13	1032	471
BWC-313-01DLO	313.1	772/24	.7/17.78	.09/2.29	.065/1.65	1.015/25.78	1209	511
BWC-373-01DLO	373.3	925/24	.772/19.61	.09/2.29	.065/1.65	1.086/27.58	1422	590
BWC-444-01DLO	444.4	1091/24	.854/21.69	.09/2.29	.065/1.65	1.169/29.69	1652	656
BWC-535-01DLO	535.3	1325/24	.906/23.01	.09/2.29	.065/1.65	1.220/30.99	1965	731
BWC-646-01DLO	646.4	1584/24	.996/25.30	.09/2.29	.065/1.65	1.311/33.30	2312	815
BWC-777-01DLO	777.7	1925/24	1.1102/27.99	.09/2.29	.065/1.65	1.397/35.48	2778	905
BWC-929-01DLO	929.2	2281/24	1.197/30.40	.09/2.29	.065/1.65	1.511/38.38	3246	1005

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BWC-1111-01DLO	1111 MCM	2727/24	1.325/33.66	.140/3.56	.095/2.41	1.799/45.69	4077	1115

Table data sourced from. All values are nominal and subject to correction.

***Ampacity is based on a single conductor in free air, 30°C ambient air temperature, and 90°C conductor temperature per NEC table 310.17.*



ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.

