



Type DEL

600-2000V Diesel-Electric Locomotive, Motor Traction and Car Wire

One Copper Conductor/90°C — 110°C Hot Spot Rating



- A Coated Stranded Copper Conductor
- B Separator (sizes 36,700 CM and larger)
- C Insulation - Okonite
- D Jacket - Okolon TS-CPE

Insulation

Okonite EPR® is Okonite's trade name for its heat resistant, mechanically rugged ethylene-propylene based insulating compound. The insulation thickness for DEL numbers 002 and 004 is 2/64", for 008 through 016 is 3/64", 018 through 026 is 4/64", 030 through 040 is 5/64", 044 and 048 is 6/64", 050 through 056 is 7/64" and for 058 it is 8/64".

Jackets and Finishes

The Okolon TS-CPE jacket supplied with this cable provides excellent resistance to mechanical abuse, flame, weathering, most oils, acids and alkalis.

Applications

Okonite Type DEL, Diesel-Electric Locomotive Traction and Car Wires is designed for use in locomotives and car equipment circuits where reliability is for prime consideration. DEL can also be used in other low voltage applications where flexibility is important. It is suitable for use in wet or dry locations, in conduits, ducts, cable troughs or trays.

Specifications

Conductor: Coated copper stranded per AREMA Recommended Practice, Section M, RP-588, as applicable and ICEA S-95-658.

Insulation: Per AREMA Recommended Practice, Section M, RP-588, as applicable and ICEA S-95-658.

Jacket: Per AREMA Recommended Practice, Section M, RP-588, as applicable and ICEA S-95-658.

Product Features

- Extreme heat resistance.
- Extra flexible conductor.
- 90°C Continuous Rating, 110°C Hot Spot Rating, 130°C emergency Overload Rating, 300°C Short Circuit Rating.
- Mechanically rugged.
- Exceptional resistance to deformation and cut through at high temperature.
- Excellent flame resistance. Meets both UL vertical and horizontal flame test requirements.
- Resistant to oils, weather and most chemicals and alkalis.
- Stable electrical properties at high temperatures.
- Meets the RHH/RHW requirements of NEC/UL and can be labeled as such on special orders.

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Product Data Section 7: Sheet 17

Catalog Number	DEL Number	Size AWG or MCM	No. of Strands	Thickness 64ths		Voltage Rating	Approx. O.D. In.	Approx. Wt. Lbs./M'		Ampacity ac or dc		Conduit Size Inches ³	DC Resis @ 25°C ohms/1000'
				Ins.	Jkt.			Net	Ship	1/C in Air ¹	3/C in Duct ²		
▲ 112-11-1702	002	16	19 X .0117	2	1	600	.16	19	23	—	18	1/2"	4.490
112-11-1704	004	14	19 X .0142	2	1	600	.17	24	28	—	22	1/2"	2.790
112-11-1708	008	14	19 X .0147	3	1	2000	.21	31	35	—	23	1/2"	2.790
112-11-1710	010	12	19 X .0179	3	1	2000	.22	40	44	—	26	1/2"	1.720
▲ 112-11-1714	014	10	27 X .0201	3	1	2000	.26	58	60	55	37	3/4"	1.100
112-11-1716	016	8	37 X .0201	3	1	600	.28	74	78	83	42	3/4"	0.690
112-11-1718	018	6	61 X .0201	4	2	2000	.38	133	141	109	73	1"	0.440
112-11-1720	020	5	91 X .0201	4	2	2000	.44	182	200	122	91	1 1/4"	0.350
112-11-1722	022	4	105 X .0201	4	2	2000	.46	204	222	145	98	1 1/4"	0.280
112-11-1724	024	3	125 X .0201	4	2	2000	.48	223	241	167	107	1 1/4"	0.220
112-11-1726	026	2	150 X .0201	4	2	2000	.53	278	298	192	125	1 1/2"	0.180
112-11-1730	030	1	225 X .0201	5	3	2000	.68	459	497	223	160	2"	0.140
112-11-1732	032	1/0	275 X .0201	5	3	2000	.71	504	550	258	184	2"	0.110
112-11-1734	034	2/0	325 X .0201	5	3	2000	.75	579	633	298	202	2"	0.090
112-11-1738	038	3/0	450 X .0201	5	3	2000	.85	769	842	345	252	2 1/2"	0.070
112-11-1740	040	4/0	550 X .0201	5	3	2000	.90	912	985	400	285	2 1/2"	0.060
112-11-1744	044	313.1	775 X .0201	6	3	2000	1.06	1263	1371	515	364	3"	0.040
112-11-1748	048	444.4	1100 X .0201	6	3	2000	1.20	1722	1830	645	450	3 1/2"	0.030
112-11-1750	050	535.3	1325 X .0201	7	4	2000	1.36	2118	2263	725	493	4"	0.020
112-11-1752	052	646.4	1600 X .0201	7	4	2000	1.45	2490	2700	815	555	4"	0.018
112-11-1754	054	777.7	1925 X .0201	7	4	2000	1.55	2938	3148	910	608	5"	0.016
112-11-1756	056	929.2	2300 X .0201	7	4	2000	1.65	3350	3560	1025	664	5"	0.013
112-11-1758	058	1111.1	2750 X .0201	8	4	2000	1.80	3786	4072	1145	728	5"	0.011

▲ **Authorized Stock Item** - Available from Customer Service Centers.

Standard Package - 1000' Non-Returnable Reel; #16 #8 - 1000' coil in carton; #6 - 500' coil in carton; #5 - #4/0 - 2000' N.R. Reel; #313.1 MCM and Larger - 1000' N.R. Reel

¹ Ampacities based on single conductor in free air, 90°C conductor temperature, 40°C ambient air temperature per ICEA S-75-381.

² Three (3) conductors in a single enclosed or exposed conduit. Ampacities based on 90°C conductor temperature and 40°C ambient using ICEA methods. For 30°C ambient multiply values by 1.10; for 50°C multiply by 0.90. For other ambients or installation conditions, refer to Engineering Data Book.

³ Based on three (3) conductors in conduit with a fill of 40% or less.