



INDUSTRIAL

Inventing *the Future* of Wire and Cable



EXAR® 150LT

UL 3321/3271

CSA: CL 1503/1251

150°C 600 Volts

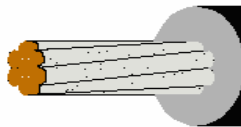
Champlain Cable Exar® 150 LT is a cost effective alternative of an irradiated cross-linked polymeric insulation with UL and CSA ratings for 150°C and 600 volts. Our wire possesses excellent mechanical and electrical properties. Exar® is known for its unparalleled thermal stability, toughness and abrasion resistance. It is compatible with all magnet wire and most varnishes. Irradiation cross-linking assures this insulation will not melt or flow at soldering temperatures. Exar 150 LT processes very well on automated high speed cut and strip equipment.

Benefits and Features

- UL/CSA 150°C, 600V
- Oil Resistance to 60°C
- Gasoline Vapors to 75°C
- High Heat and Burn through Resistance
- Good chemical resistance
- Highly abrasion resistant
- Superior cut and strip processing
- RoHS Compliant

Applications

- Including but not limited to:
- Electric Motors
 - Coil Winding
 - Electrical Coils
 - Transformers
 - HID Ballasts
 - Lighting Devices
 - Appliances
 - Electronic Devices
 - Heaters
 - Generators



Champlain Cable Corporation

Part Number	Standard Conductors Tin Copper	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
25-09022	22 (19/34)	.031	.79	.030	.76	.095	2.41	5.81	14
25-09020	20 (19/32)	.038	.97	.030	.76	.103	2.61	7.57	18
25-08018	18 (7/.0152)	.045	1.14	.030	.76	.105	2.67	9.00	24
25-09018	18 (19/.0092)	.045	1.14	.030	.76	.105	2.67	9.00	24
25-09016	16 (26/30)	.058	1.47	.030	.76	.122	3.09	11.90	31
25-09014	14 (41/30)	.073	1.85	.030	.76	.136	3.45	19.00	46
25-09012	12 (65/30)	.093	2.36	.030	.76	.150	3.81	27.10	60
25-09010	10 (65/28)	.111	2.82	.030	.76	.172	4.37	40.5	80
25-09008	8 (84/27)	.147	3.73	.045	1.14	.238	6.04	69.20	106
25-09006	6 (84/25)	.183	4.65	.060	1.52	.305	7.75	111.50	155
25-09004	4 (133/25)	.263	6.68	.060	1.52	.385	9.78	163.90	190
25-09002	2 (259/26)	.323	8.20	.060	1.52	.445	11.30	240.40	232
25-09001	1 (259/25)	.372	9.44	.060	1.52	.492	12.50	315.30	293
25-09090	1/0 (259/24)	.424	10.77	.080	2.03	.588	14.99	421.20	339
25-09000	2/0 (259/23)	.465	11.81	.080	2.03	.629	15.98	507.20	390
25-09029	3/0 (259/22)	.520	13.21	.080	2.03	.684	17.37	627.90	451
25-09040	4/0 (259/21)	.586	14.80	.080	2.03	.750	19.05	776.80	529

*Ampacity 150°C rated single-insulated conductor in free air at 40°C ambient air temperature

www.champcable.com



Champlain Cable Corporation
175 Hercules Drive
Colchester, Vermont 05446

P 800.451.5162
F 802.654.4224
sales@champcable.com



INDUSTRIAL

Inventing *the Future* of Wire and Cable



PROPERTIES	EXAR® 150LT	
Approvals / Listings:		
UL	STYLE UL3321/3271	
CSA	AWM CL1251, CL1503	
Physical: *		
Temperature Rating	125/150 °C	
Voltage Rating (Vrms)	600V	
Scrape Abrasion Resistance	150 cycles	
Shore "A" Hardness	86	
Shore "D" Hardness	40	
Cold Bend - 4h @ -55°C	Passes	
Bend Radius	3 X Overall Diameter	
Tensile Strength: *		
Unaged	2600 PSI	
Retention after 7 days @ 180 °C	Passes (90%)	
Elongation: *		
Unaged	350%	
Retention after 7 days @ 180 °C	90%	
Flame Test: *		
UL 758 and FT2 Horizontal Burn	Passes	
Chemical Resistance		
Acetone	swell @ 23°C**	5-10%
Acid - H2SO4 S.G. 1.260 5%	swell @ 23°C**	<5%
Engine Oil – ASTM D-471 IRM-902	swell @ 50°C**	<5%
Benzene	swell @ 23°C/24h	Not Recommended
Epoxy	swell @ 23°C/24h	<5%
Gasoline – ASTM D-471 Fuel C	swell @ 23°C**	<5%
Methanol	swell @ 23°C/24h	<5%
Toluene	swell @ 23°C/24h	Not Recommended
Xylene	swell @ 23°C/24h	Not Recommended
Electrical: *		
Dielectric Constant		3.01
Dielectric breakdown strength (Vrms)		23,000
Oxygen Index:		26

* Properties are tested to UL 758 and UL 1581.

** Percent swell SAE J-1128 TXL

We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purpose. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss and damage arising from the handling and use of our products whether used alone or in combination with other products.

www.champcable.com



Champlain Cable Corporation
175 Hercules Drive
Colchester, Vermont 05446

P 800.451.5162
F 802.654.4224
sales@champcable.com