



# INDUSTRIAL

Inventing *the Future* of Wire and Cable



## EXAR® XLE UL 3657 CUL 105°C 1000 Volts

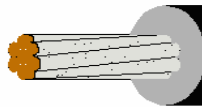
Champlain Cable announces **Exar® XLE**, an outstanding flexible **Class B**, 1000 volt, irradiation cross-linked wire. XLE is heavy metal free and is RoHS compliant. Exar XLE is a cost effective alternative to other rubber type insulations like Hypalon®. It has excellent mechanical strength, cut through resistance and outstanding chemical, oil and solvent resistance. Exar XLE can withstand exposure in oil up to 110°C. XLE processes very well on automated high speed cut and strip equipment.

### Benefits and Features

Extremely Flexible and Thin  
Class B Rating  
Superior Processing  
Outstanding Chemical and Solvent Resistance  
Oil Resistance to 110°C  
RoHS / REACH Compliant  
Good Over Mold Characteristics  
Many colors available

### Applications

Including but not limited to:  
Motors  
Appliances  
Transformers  
Generators  
Panels and Switchgear



Champlain Cable Corporation

\* Ampacity 105°C rated single-insulated conductor in free air at 30°C ambient air temperature

Part Number	Standard Conductors Tinned Copper	Nom. Conductor Diameter		Insulation Thickness		Nom. OD		Finished Weight (lbs/kft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
3657-26/XX-B0	26 (7/34)	.019	.48	.031	.79	.081	2.06	3.67	2
3657-24/XX-B0	24 (7/32)	.024	.61	.031	.79	.086	2.18	4.48	5
3657-22/XX-B0	22 (7/30)	.030	.76	.031	.79	.092	2.34	5.59	9
3657-20/XX-B0	20 (7/28)	.038	.97	.031	.79	.100	2.59	7.32	12
3657-18/XX-D0	18 (19/.0092)	.045	1.14	.031	.79	.107	2.72	9.26	18
3657-16/XX-F0	16 (19/.0117)	.058	1.47	.031	.79	.120	3.05	13.04	24
3657-14/XX-H0	14 (41/30)	.071	1.85	.031	.79	.133	3.38	18.5	35
3657-12/XX-J0	12 (65/30)	.089	2.26	.031	.79	.151	3.84	27.0	40
3657-10/XX-J0	10 (65/28)	.111	2.81	.031	.79	.173	4.39	40.4	55
3657-08/XX-X0	8 (84/27)	.147	3.73	.046	1.17	.241	6.12	69.3	80
3657-06/XX-M0	6 (259/30)	.210	5.33	.046	1.17	.277	7.04	105	105
3657-04/XX-O0	4 (413/30)	.265	6.73	.046	1.17	.357	9.07	158	140
3657-02/XX-P0	2 (665/30)	.330	8.38	.046	1.17	.422	10.72	243	190
3657-01/XX-R0	1 (836/30)	.365	9.27	.056	1.42	.477	12.12	326	215
3657-1/1/XX-S0	1/0 (1045/30)	.415	10.54	.056	1.42	.527	13.39	382	250
3657-2/2/XX-U0	2/0 (1330/30)	.475	12.07	.056	1.42	.587	14.91	495	290
3657-3/3/XX-V0	3/0 (1672/30)	.535	13.59	.056	1.42	.647	16.43	594	335
3657-4/4/XX-W0	4/0 (2109/30)	.610	15.49	.056	1.42	.722	18.34	740	390

# 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® XLE	
<b>Approvals / Listings:</b>		
UL	UL 3657	
CSA	Cul	
<b>Physical: *</b>		
Temperature Rating	105 °C	
Voltage Rating (Vrms)	1000V	
Flexibility - 7 days @ 136 °C	Pass	
Cold Bend - 4h @ -40°C	Pass	
<b>Tensile Strength: *</b>		
Unaged	2123 psi	
Retention after 7 days @ 136 °C	2306 psi	
<b>Elongation: *</b>		
Unaged	254%	
Retention after 7 days @ 136°C	225%	
<b>Flame Test: *</b>		
UL Horizontal –	Pass	
<b>Chemical Resistance</b>		
Acetone	swell@23°C**	Not recommended
Acid - H2SO4 S.G. 1.260 5%	swell@23°C**	1.5%
Engine Oil – ASTM D-471 IRM-902	swell@110°C**	3%
Benzene	swell@23°C/24h	Not recommended
Epoxy	swell@23°C/24h	NA
Gasoline – ASTM D-471 Fuel C	swell@23°C**	11.1%
Methanol	swell@23°C/24h	<1%
Toluene	swell@23°C/24h	Not recommended
Xylene	swell@23°C/24h	Not recommended
<b>Electrical: *</b>		
Dielectric Constant D150/100MHz		NA
Dielectric breakdown strength (Vrms)		NA
<b>Oxygen Index: (D2868 Standard)</b>		NA

\* Properties are tested to UL 758 and UL 1581.

\*\* Percent swell SAE J-1128 TXL

Test data based on 18 AWG sample

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.

RSA 6-2-2009

# www.champcable.com



Champlain Cable Corporation  
175 Hercules Drive  
Colchester, Vermont 05446

P 800.451.5162  
F 802.654.4224  
sales@champcable.com