

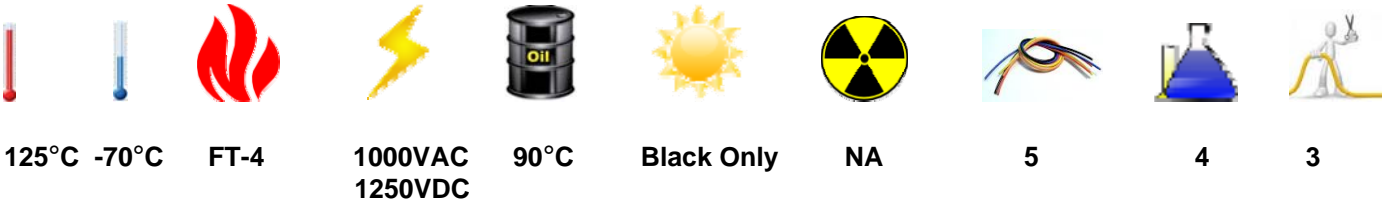


# XLE UL 3657

Irradiation Cross-Linked Polymeric Insulation

## UL 3657 105°C 1000V AC 1250V DC CL1251 ROHS and CE Compliant

Champlain Cable **Exar® XLE**, is an outstanding flexible **Class B**, 1000 volt, irradiation cross-linked wire in sizes up to 535 MCM. 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.



Product 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	39
3657-12/XX-J0	12 (65/30)	.089	2.26	.031	.79	.151	3.84	27.0	51
3657-10/XX-J0	10 (65/28)	.111	2.81	.031	.79	.173	4.39	40.4	67
3657-08/XX-X0	8 (84/27)	.147	3.73	.046	1.17	.241	6.12	69.3	90
3657-06/XX-M0	6 (259/30)	.210	5.33	.060	1.52	.330	8.38	105	121
3657-04/XX-O0	4 (413/30)	.265	6.73	.060	1.52	.385	9.78	158	160
3657-02/XX-P0	2 (665/30)	.330	8.38	.060	1.52	.450	11.43	243	215
3657-01/XX-R0	1 (836/30)	.365	9.27	.080	2.03	.525	13.34	326	247
3657-1/1/XX-S0	1/0 (1045/30)	.415	10.54	.080	2.03	.575	14.61	382	286
3657-1/2/XX-U0	2/0 (1330/30)	.475	12.07	.080	2.03	.635	16.13	495	329
3657-1/3/XX-V0	3/0 (1672/30)	.535	13.59	.080	2.03	.695	17.65	594	380
3657-1/4/XX-W0	4/0 (2109/30)	.610	15.49	.080	2.03	.770	19.56	740	446
3657-260/XX-0	260 MCM 646/24	.657	16.69	.095	2.41	.847	21.51	877	493
3657-313/XX-0	313 MCM 779/24	.720	18.29	.095	2.41	.910	23.11	1093	552
3657-375/XX-0	375 MCM 932/24	.785	19.94	.095	2.41	.975	24.77	1277	625
3657-535/XX-0	535 MCM 1330/24	.943	23.95	.095	2.41	1.133	28.78	1766	767

\*Ampacity 110°C rated single-insulated conductor in free air at 30°C ambient air temperature



**Manufacturing Locations:**  
Colchester, Vermont  
El Paso, Texas  
Leeds, Massachusetts



# XLE

## UL 3657

Irradiation Cross-Linked Polymeric Insulation

PROPERTIES	EXAR® XLE	
<b>Approvals / Listings:</b>		
UL	UL 3657	
CSA	AWM A/B CL1251	
<b>Physical: *</b>		
Temperature Rating	125 °C	
Voltage Rating (Vrms)	1000V	
Flexibility - 7 days @ 136 °C	Pass	
Cold Bend - 4h @ -70°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 @ 36°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 150/100MHz		NA
Dielectric breakdown strength (Vrms)		20,000 volts
<b>Oxygen Index: (D2868 Standard)</b>		NA

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### Sales Offices:

