



150

UL 3266 / 3398
125°C, 150°C -300V
CSA AWM

Irradiation Cross-Linked Polymeric Insulation

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ROHS and CE Compliant

Champlain Cable **Exar® 150** is the premium heat-defying cable in its class. Its irradiation cross-linked polymeric insulation possesses remarkable mechanical, flame resistance and electrical properties. Exar 150 processes extremely well on the latest high speed cut and strip machines. Processing costs are reduced by avoiding problems such as solder iron shrink-back, insulation creeping and poor abrasion resistance. This product has unusually high chemical resistance including many potting compounds, toners and solvents. Save money by avoiding costly scrap and rework.



Product Number	Standard Conductors Tin Copper	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
3266-28/XX-B0	28 (7/36)	.015	.38	.016	.41	.049	1.25	1.51	1
3266-26/XX-A0	26 (1/26)	.015	.38	.016	.41	.050	1.27	1.73	3
3266-26/XX-B0	26 (7/34)	.019	.48	.016	.41	.051	1.30	1.91	3
3266-26/XX-E0	26 (19/38)	.020	.51	.016	.41	.053	1.35	1.98	3
3266-24/XX-A0	24 (1/24)	.020	.51	.016	.41	.054	1.37	2.29	7
3266-24/XX-B0	24 (7/32)	.024	.61	.016	.41	.056	1.42	2.56	7
3266-24/XX-E0	24 (19/36)	.024	.61	.016	.41	.057	1.45	2.61	7
3266-22/XX-A0	22 (1/22)	.025	.64	.016	.41	.059	1.50	3.16	14
3266-22/XX-B0	22 (7/30)	.030	.76	.016	.41	.062	1.58	3.54	14
3266-22/XX-E0	22 (19/34)	.031	.79	.016	.41	.063	1.60	3.65	14
3266-20/XX-A0	20 (1/20)	.032	.81	.016	.41	.066	1.68	4.52	18
3266-20/XX-B0	20 (7/28)	.038	.97	.016	.41	.070	1.78	5.05	18
3266-20/XX-E0	20 (19/32)	.038	.97	.016	.41	.071	1.80	5.27	18
3266-18/XX-A0	18 (1/18)	.040	1.02	.016	.41	.074	1.88	6.51	24
3266-18/XX-B0	18 (7/0152)	.045	1.14	.016	.41	.077	1.96	6.74	24
3266-18/XX-E0	18(19/0092)	.045	1.14	.016	.41	.077	1.96	6.67	24
3266-16/XX-F0	16 (26/30)	.058	1.47	.016	.41	.092	2.34	10.15	31
3266-14/XX-H0	14 (41/30)	.071	1.85	.016	.41	.107	2.72	15.34	46
3266-12/XX-J0	12 (65/30)	.089	2.26	.016	.41	.121	3.07	23.40	60
3266-10/XX-J0	10 (65/28)	.111	2.81	.017	.43	.145	3.68	36.12	80

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



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



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PROPERTIES	EXAR® 150	
Approvals / Listings:		
UL	STYLE 3266 3398	
CSA	AWM 150°C 300V	
Physical: *		
Temperature Rating	125 150°C	
Voltage Rating (Vrms)	300V	
Flexibility - 7 days @ 180 °C	Passes	
Cold Bend - 4h @ -65°C	Passes	
Deformation	18%	
Shore "A" Hardness	95	
Shore "D" Hardness	42	
Bend Radius	3 X overall diameter	
Tensile Strength: *		
Unaged	2000 PSI	
Retention after 7 days @ 180 °C	Passes (100%)	
Elongation: *		
Unaged	250%	
Retention after 7 days @ 180 °C	95%	
Flame Test: *		
UL VW-1	Passes	
IEEE Std. 383-1974	Passes	
Chemical Resistance:		
Acetone	swell @23°C/24h	5-10%
Acid – H2SO4 S.G. 1.260 5%	swell @23°C**	<1%
Engine Oil – ASTM D-471 IRM-902	swell @50°C**	1.80%
Benzene	swell @23°C/24h	Not recommended
Epoxy	swell @23°C/24h	<5%
Gasoline – ASTM D-471 Fuel C	swell @23°C**	<1%
Methanol	swell @23°C**	<1%
Toluene	swell @23°C**	Not recommended
Xylene	swell @23°C**	Not recommended
Electrical: *		
Dielectric Constant		3.1
Dielectric breakdown strength (Vrms)		12,000
Oxygen Index:		24
Gamma Radiation Resistance – Total:		
Integral dose (Cobalt 60 @ a rate of less than 1 megarad/hr.)		200 megarads

* Properties are tested to UL 758 and UL 1581.

** Percent swell SAE J-1128 TXL

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Sales Offices:

