



INDUSTRIAL

Inventing *the Future* of Wire and Cable



Exar[®] 150

**UL 3271 / 3289 125°C 150°C - 600V
CSA AWM**

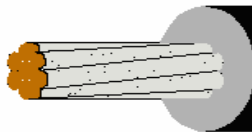
Exar[®] 150 is the premium heat-defying cable in its class. Its irradiation cross-linked polymeric insulation possesses remarkable mechanical, flame resistance and electrical properties. It is compatible with many types of magnet wire and varnishes at bake temperatures up to 190°C Exar 150 processes 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.

Benefits and Features

UL/CSA AWM unrestricted 150°C – 600V
Dual Ratings
Rated for Class F
Suitable for most Class H systems
Cold temperature performance to -65°C
Highly cut-through and abrasion resistant
VW-1 Rated
Easier stripping and processing
RoHS Compliant

Applications

Including but not limited to:
Electric Motors Lighting Devices
Coil Winding Appliances
Electrical Coils Electronic Devices
Transformers Heaters
Thermal Sensors Thermal Protectors Printers
Copiers
Fax Machines Switchboard



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.		
3289-22/XX-B0	22 (7/30)	.031	.79	.030	.76	.095	2.41	5.81	14
3289-20/XX-B0	20 (7/28)	.038	.97	.030	.76	.103	2.61	7.85	18
3289-18/XX-D0	18 16/30)	.045	1.14	.030	.76	.105	2.67	9.52	25
3289-16/XX-F0	16 (26/30)	.058	1.47	.030	.76	.122	3.09	13.3	31
3289-14/XX-H0	14 (41/30)	.073	1.85	.030	.76	.136	3.45	19.0	46
3289-12/XX-J0	12 (65/30)	.093	2.36	.030	.76	.150	3.81	27.1	60
3289-10/XX-J0	10 (65/28)	.111	2.82	.030	.76	.172	4.37	40.5	80
3289-08/XX-X0	8 (84/27)	.147	3.73	.045	1.14	.238	6.04	69.2	106
3289-06/XX-X0	6 (84/25)	.183	4.65	.060	1.52	.305	7.75	111.5	155
3289-04/XX-L0	4 (133/25)	.263	6.68	.060	1.52	.385	9.78	170.9	190
3289-02/XX-M0	2 (259/26)	.323	8.20	.060	1.52	.445	11.30	254.5	255
3289-01/XX-M0	1 (259/25)	.372	9.44	.060	1.52	.492	12.50	335.2	293
3289-1/XX-M0	1/0 (259/24)	.424	10.77	.080	2.03	.588	14.99	421.0	339
3289-2/XX-M0	2/0 (259/23)	.465	11.81	.080	2.03	.629	15.98	507.2	390
3289-3/XX-M0	3/0 (259/22)	.520	13.21	.080	2.03	.684	17.37	627.2	451
3289-4/XX-M0	4/0 (259/21)	.586	14.80	.080	2.03	.750	19.05	776.8	529

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

www.champlcable.com



Champlain Cable Corporation
175 Hercules Drive
Colchester, Vermont 05446

P 800.451.5162
F 802.654.4224
sales@champlcable.com



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PROPERTIES	EXAR® 150
Approvals / Listings:	
UL	STYLE 3271/3289
CSA	AWM 125°C 150°C 600V
Physical: *	
Temperature Rating	125 °C 150 °C
Voltage Rating (Vrms)	600V
Flexibility - 7 days @ 180 °C	Passes
Cold Bend - 4h @ -65°C	Passes
Room Temperature UL Abrasion	2400 cycles
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/24h Not recommended
Xylene	swell @23°C/24h Not recommended
Electrical: *	
Dielectric Constant	3.1
Dielectric breakdown strength (Vrms)	6,000
Oxygen Index:	24
Gamma Radiation Resistance – Total:	
Integral dose (Cobalt 60 @ a rate of less than 1 megarad/hr.)	200 megarads
Ultraviolet Light Resistance:	
Per ASTM G-23 Type H	5000 hrs.

* 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.

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