



INDUSTRIAL

Inventing *the Future* of Wire and Cable



Exar[®] SFX

UL 3289 150°C - 600V

CSA AWM, CL 1503

Champlain Cable announces **Exar[®] SFX**, the latest generation of our Exar family. This innovative new material transforms Exar irradiation cross-linked polyolefin into a rubber-like material. While maintaining the excellent thermal, size, toughness and varnish release advantages of Exar, **SFX** maximizes flexibility over a very broad temperature range. Exar, **SFX** is easier to work, bend and route in tight spaces. The end result is a wire or cable ideally suited to applications where a combination of flexibility, smaller size and performance is required.

Feel the difference and you will agree that **Exar[®] SFX** feels more like rubber than any other XLPE or XLPO on the market.

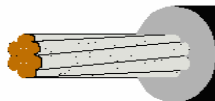
Benefits and Features

UL/CSA unrestricted 150°C – 600V
Rated for Class F
Suitable for Class H systems
CUL AWM 1 A/B
Maximum flexibility
Cold temperature performance to -70°C
Highly cut-through and abrasion resistant
UL 758 Horizontal Burn Rating (FT-2)
RoHS compliant

Applications

Including but not limited to:

Motor Lead	HID Ballasts
Electric Motors	Lighting Devices
Coil Winding	Appliances
Electrical Coils	Electronic Devices
Transformers	Heat Pumps
Generators	Thermal Sensors
Thermal Protectors	Heaters



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.		
SFX9-22/XX-B0	22 (7/30)	.031	.79	.030	.76	.095	2.41	4.9	14
SFX9-20/XX-B0	20 (7/28)	.038	.97	.030	.76	.103	2.61	6.8	18
SFX9-18/XX-D0	18 16/30)	.045	1.14	.030	.76	.105	2.67	8.8	24
SFX9-16/XX-F0	16 (26/30)	.058	1.47	.030	.76	.122	3.09	12.6	31
SFX9-14/XX-H0	14 (41/30)	.073	1.85	.030	.76	.136	3.45	18.2	46
SFX9-12/XX-J0	12 (65/30)	.093	2.36	.030	.76	.150	3.81	26.5	60
SFX9-10/XX-J0	10 (65/28)	.111	2.82	.030	.76	.172	4.37	39.5	80
SFX9-08/XX-X0	8 (84/27)	.147	3.73	.045	1.14	.238	6.04	67.6	106
SFX9-06/XX-X0	6 (84/25)	.183	4.65	.060	1.52	.305	7.75	108.8	155
SFX9-04/XX-L0	4 (133/25)	.263	6.68	.060	1.52	.385	9.78	165.7	190
SFX9-02/XX-M0	2 (259/26)	.323	8.20	.060	1.52	.445	11.30	249.9	255
SFX9-01/XX-M0	1 (259/25)	.372	9.44	.060	1.52	.492	12.50	327.5	293
SFX9-1/XX-M0	1/0 (259/24)	.424	10.77	.080	2.03	.588	14.99	403.8	339
SFX9-2/XX-M0	2/0 (259/23)	.465	11.81	.080	2.03	.629	15.98	500.1	390
SFX9-3/XX-M0	3/0 (259/22)	.520	13.21	.080	2.03	.684	17.37	618.6	451
SFX9-4/XX-M0	4/0 (259/21)	.586	14.80	.080	2.03	.750	19.05	767.7	529

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

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PROPERTIES	EXAR® SFX	
Approvals / Listings:		
UL	STYLE UL3289/3271	
CSA	AWM CL1251, CL1503	
Physical: *		
Temperature Rating	125/150 °C	
Voltage Rating (Vrms)	600V	
Scrape Abrasion Resistance	225 cycles	
Shore "A" Hardness	86	
Shore "D" Hardness	40	
Cold Bend - 4h @ -70°C	Passes	
Bend Radius	3 X Overall Diameter	
Tensile Strength: *		
Unaged	3000 PSI	
Retention after 7 days @ 180 °C	Passes (90%)	
Elongation: *		
Unaged	500%	
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**	<1%
Engine Oil – ASTM D-471 IRM-902	swell @ 50°C**	>10%
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/24h	<1%
Toluene	swell @ 23°C/24h	Not Recommended
Xylene	swell @ 23°C/24h	Not Recommended
Electrical: *		
Dielectric Constant		2.6
Dielectric breakdown strength (Vrms)		20,000
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

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