



**Exar<sup>®</sup> SFX**  
**UL 3289 150°C - 600V**  
**CSA AWM, CL 1503**  
**Class F (155°C)**

Champlain Cable announces **Exar<sup>®</sup> 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. The end result is a wire or cable ideally suited to applications where a combination of flexibility, size and performance is required.

**Benefits and Features**

UL/CSA unrestricted 150°C – 600V  
CUL AWM 1 A/B  
Maximum flexibility  
Highly cut-through and abrasion resistant  
UL 758 Horizontal Burn Rating (FT-2)  
Easier stripping and processing  
Superior varnish resistance  
Small diameter

**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	

**Exar<sup>®</sup> SFX** is available in the standard sizes listed. Extra-flexible stranding is available upon request for even greater flexibility. The product can be customized with many different options that include special print, markings, colors and striping. We can also customize conductor configuration, insulation thickness and packaging as required. Exar **SFX** lead wire also makes an ideal basis for flexible 150°C cables.

***Feel the difference – we think you will agree that Exar<sup>®</sup> SFX feels more like rubber than any other XLPE or XLPO on the market.***

**Please contact us for samples or product information.**

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**Product Information**

Standard Conductors Tinned Copper	Conductor Resistance*	Insulation Wall	Nominal O.D.	Finished Weight (lbs/mft)	Ampacity**
22 (7/30)	17.1	.030"	.090"	5.0	11
20 (7/28)	10.7	.030"	.098"	6.6	15
18 (19/.0092)	6.23	.030"	.106"	8.5	21
16 (26/30)	4.69	.030"	.117"	12.1	28
14 (41/30)	2.94	.030"	.132"	17.5	46
12 (65/30)	1.85	.030"	.149"	25.9	60
10 (65/28)	1.15	.030"	.171"	39.0	80
8 (84/27)	0.70	.045"	.237"	67.3	106
6 (84/25)	0.44	.060"	.303"	108	155
4 (133/25)	0.28	.060"	.383"	165	190
2 (259/26)	0.184	.060"	.443"	247	255
1 (259/25)	0.145	.080"	.532"	324	293
1/0 (259/24)	0.113	.080"	.584"	399	339
2/0 (259/23)	0.089	.080"	.625"	492	390
3/0 (259/22)	0.070	.080"	.680"	610	451
4/0 (259/21)	0.056	.080"	.746"	756	529

\*Conductor Resistance measured in Ohms/Mft. @20°C    \*\*Ampacity – Single insulated conductor in free air at 30°C ambient

Other sizes and conductor designs available on request

**Performance Characteristics**

(Typical Results from 18 AWG)

Insulation Attributes	Typical Performance
<b>Tensile Strength</b>	3000 psi
<b>Elongation</b>	500%
<b>Hardness</b>	40 Shore "D"
<b>Thermal Performance</b>	Exceeds all varnish baking cycle requirements 4 hours at 240°C / 464°F    100% retention of elongation 24 hours at 210°C / 410°F    100% retention of elongation 168 hours at 180°C / 356°F    100% retention of elongation
<b>Dielectric Strength</b>	20,000 Volt Breakdown Voltage
<b>Abrasion Resistance</b>	Superior to EPDM, Hypalon, Silicone
<b>Cold Bend</b>	-70°C
<b>Flame Resistance</b>	Meets UL Horizontal Burn (FT2)

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.

Exar<sup>®</sup> is a registered trademark of Champlain Cable Corporation.

