



INDUSTRIAL

Inventing *the Future* of Wire and Cable



Exar[®] SFX 7.5KV UL 3575 150°C - 7500V Class F (155°C)

Exar[®] SFX 7.5KV, is the latest generation of our Exar Family. This innovative new material transforms Exar[®] irradiation cross-linked polyolefin into an extremely flexible, rubber-like material. SFX is flexible yet it retains the excellent thermal, size, toughness and varnish release advantages of Exar[®]. The end result is a wire or cable ideally suited to applications where a combination of flexibility, size and performance is required.

Exar[®] SFX 7.5KV represents the latest technology in composite insulation. This highly stranded copper has a semi-conductive covering and heat-defying Exar[®]150C insulation. The end result is a wire or cable ideally suited to applications where a combination of flexibility, smaller size and performance are required.

Feel the difference and you will agree that **Exar[®] SFX 7.5KV**, feels more like rubber than any other XLPE or XLPO on the market!

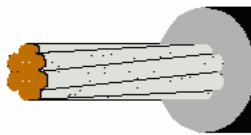
Benefits and Features

UL/CSA unrestricted 150°C – 7500V
Cold Temperature performance to -70°C
Maximum flexibility
Highly cut-through and abrasion resistant
UL 758 Horizontal Burn Rating (FT-2)
Superior varnish resistance
RoHS Compliant

Applications

Including but not limited to:

Motor Lead	Utilities
Electric Motors	Lighting Devices
Transformers	Power Supplies
Generators	Racks & Panels



Champlain Cable Corporation

Part Number	Standard Conductors Tin Copper	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Min Fixed Bend Radius	Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.			
SFX5-10/XX-K0	10 (105/30)	.113	2.82	.060	1.52	.231	5.87	1.20	51.3	80
SFX5-08/XX-I0	8 (168/30)	.169	4.29	.060	1.52	.311	7.90	1.60	76.4	106
SFX5-06/XX-M0	6 (259/30)	.210	5.33	.060	1.52	.347	8.81	1.75	109.7	155
SFX5-04/XX-O0	4 (413/30)	.265	6.73	.060	1.52	.402	10.21	2.25	162.4	190
SFX5-02/XX-P0	2 (665/30)	.330	8.38	.060	1.52	.466	11.84	2.50	268.2	255
SFX5-01/XX-U0	1 (836/30)	.365	9.27	.060	1.52	.541	13.66	2.75	329.4	293
SFX5-1/XX-S0	1/0 (1045/30)	.415	10.54	.080	2.03	.591	15.01	3.00	400.9	339
SFX5-2/XX-T0	2/0 (1330/30)	.475	12.07	.080	2.03	.651	16.54	3.50	500.3	390
SFX5-3/XX-V0	3/0 (1672/30)	.535	13.59	.080	2.03	.711	18.06	3.75	617.4	451
SFX5-4/XX-W0	4/0 (2109/30)	.610	15.49	.080	2.03	.786	19.96	4.00	766.6	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 UL3575	
CSA	AWM 7500 Volt	
Physical: *		
Temperature Rating	150 °C	
Voltage Rating (Vrms)	7500V	
Scrape Abrasion Resistance	225 cycles	
Shore "A" Hardness	86	
Shore "D" Hardness	40	
Cold Bend - 4h @ -70°C	Passes	
Bend Radius	5 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		2.60
Dielectric breakdown strength (Vrms)		20,000
Corona Inception Point ***		3,500 V
Corona Extinction Point		2,000 V
Oxygen Index:		26

* Properties are tested to UL 758 and UL 1581.

** Percent swell SAE J-1128 TXL

*** Important notice: Long term failure of the insulation can occur when voltage exceeds the corona inception point. Corona can be prevented by isolating the cable from other cables and ground points.

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.

RSA 5-15-2009

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