



# 150 SFX-OR

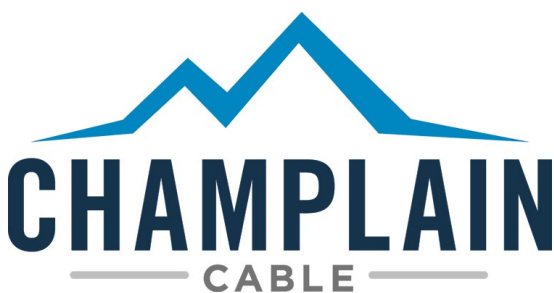
## UL 3575 / AWM

UL 3575, CSA, 150°C, 7500V

- Highly Engineered Exar® SFX-OR Irradiation Crosslinked Polyolefin
- “Best-In-Class” Flexibility
- Won’t Melt, Creep or Flow
- “Best-In-Class” Varnish Resistance
- “All-In-One” Performance: Flex + Temp + OD + Varnish Resistance
- Survives Elevated Bake Cycles of 180°C+
- Excellent Flame, Oil and Chemical Resistance
- Thin OD Yet Tougher than Other Motor Leads



Product Number	Standard Conductors	Nom. Conductor Diameter		Nom Insulation Thickness		Nom. Finished Diameter		Min. Bend Radius	Finished Weight (lb./mft)	Ampacity (40C, Free Air)
	Tin Copper	in.	mm.	in.	mm.	in.	mm.			
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/XX00	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 (1,045/30)	.415	10.54	.080	2.03	.591	15.01	3.00	400.9	339
SFX5-2/XX-T0	2/0 (1,330/30)	.475	12.07	.080	2.03	.651	16.54	3.50	500.3	390
SFX5-3/XX-V0	3/0 (1,672/30)	.535	13.59	.080	2.03	.711	18.06	3.75	617.4	451
SFX5-4/XX-W0	4/0 (2,109/30)	.610	15.49	.080	2.03	.786	19.96	4.00	766.6	529
SFX5-260/XX-W0	260MCM (646/24)	.642	16.31	.095	2.41	.847	21.51	7.20	940	585
SFX5-313/XX-W0	313MCM (777/24)	.706	17.93	.095	2.41	.911	23.14	7.60	1,180	654
SFX5-375/XX-W0	375MCM (925/24)	.770	19.55	.095	2.41	.975	24.77	8.00	1,270	770
SFX5-535/XX-W0	535MCM (1,332/24)	.923	23.44	.110	2.80	1.158	29.41	12.00	1,890	934





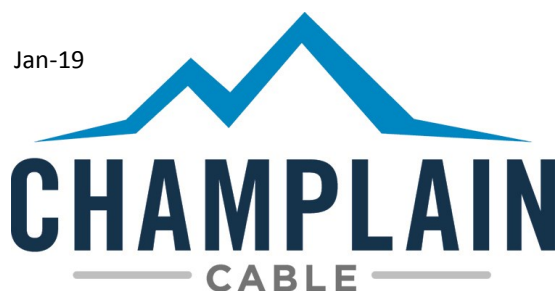
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## UL 3575 / AWM

PROPERTIES	EXAR® 150 SFX - Oil Resistant	
<b>Approvals / Listings:</b>		
UL	UL STYLE 3575	
CSA	AWM 7,500V	
<b>Physical Properties:</b>		
Temperature Rating	150°C	
Voltage Rating (Vrms)	7,500V	
Scrape Abrasion Resistance	1,500 cycles	
Shore "A" Hardness	83	
Shore "D" Hardness	33	
Cold Bend - 4h @ -70°C	Passes	
Bend Radius	3x Overall Diameter	
<b>Tensile Strength:</b>		
Unaged	2,900 psi	
Retention after 7 days @ 180°C	Pass (> 80%)	
<b>Elongation:</b>		
Unaged	350%	
Retention after 7 days @ 180°C	Pass (> 80%)	
<b>Flame Test:</b>		
VW-1	Passes	
<b>UL Oil Resistance 60°C maximum.</b>		
96 hrs. @100°C	Pass (Tensile 58% Elongation 82%)	
	Tensile + Elongation 50% min.	
<b>Chemical Resistance</b>		
Acetone	Swell @23°C**	7%
Acid - H2SO4 S.G. 1.260 5%	Swell @23°C**	<5%
Engine Oil - ASTM D-471 IRM-902	Swell @50°C**	<1.5%
Benzene	Swell @23°C/24h	Not Recommended
Epoxy	Swell @23°C/24h	<5%
Gasoline - ASTM D-471 Fuel C	Swell @23°C**	<5%
Methanol	Swell @23°C/24h	<5%
Toluene / Xylene	Swell @23°C/24h	Not Recommended
Mineral Oil	Swell @23°C/24h	Not Recommended
<b>Electrical:</b>		
Dielectric Constant		3.2
Dielectric Breakdown Strength (Vrms)		21,300
Corona Inception Point***		3,500 Volts
Corona Extinction Point***		2,000 Volts
<b>Oxygen Index:</b>		25

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. \* UL oil resistance tested to IRM-901 oil per UL and ASTM test references. There are many types of oils and lubricants. Champlain recommends testing in your particular application and/or oil type prior to use to confirm compatibility.

Jan-19



### Manufacturing Locations

Colchester, Vermont

El Paso, Texas

[www.champcable.com](http://www.champcable.com)