



150 SFX-OR

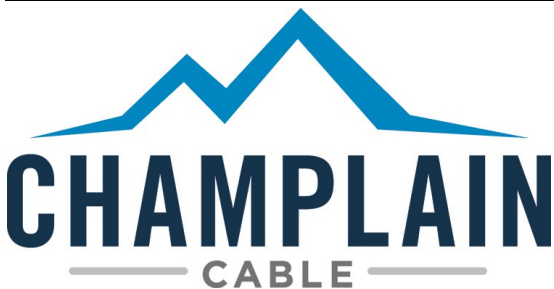
UL 3271 / 3289

UL 3271/3289, CSA, 125°C / 150°C , 600VAC / 750VDC

- Highly Engineered Exar® SFX-OR Irradiation Crosslinked Polyolefin
- Excellent Flexibility
- AWM, CL 1251 & 1503
- Won't Melt, Creep or Flow
- “Best-In-Class” Varnish Resistance
- Excellent Flame, Oil and Chemical Resistance
- Thin OD Yet Tougher than Other Motor Leads
- “All-In-One” Performance: Flex + Temp + OD + Varnish



Product Number	Standard Conductors Tin Copper	Nom. Conductor Diameter		Nom. Insulation Thickness		Nom. Finished Diameter		Ampacity (40°C, Free Air)
		in.	mm.	in.	mm.	in.	mm.	
SFX22/XX-O-B0	22 (7/30)	.031	.79	.030	.76	.095	2.41	14
SFX20/XX-O-B0	20 (7/28)	.038	.97	.030	.76	.103	2.61	18
SFX18/XX-O-D0	18 (19/.0092")	.045	1.14	.030	.76	.105	2.67	24
SFX16/XX-O-F0	16 (26/30)	.058	1.47	.030	.76	.122	3.09	31
SFX14/XX-O-H0	14 (41/30)	.073	1.85	.030	.76	.136	3.45	46
SFX12/XX-O-J0	12 (65/30)	.093	2.36	.030	.76	.150	3.81	60
SFX10/XX-O-J0	10 (65/28)	.111	2.82	.030	.76	.172	4.37	80
SFX08/XX-O-X0	8 (84/27)	.147	3.73	.045	1.14	.238	6.04	106
*SFX06/XX-O-X0	6 (84/25)	.183	4.65	.060	1.52	.305	7.75	155
*SFX04/XX-O-L0	4 (133/25)	.263	6.68	.060	1.52	.385	9.78	190
*SFX02/XX-O-M0	2 (361/.0135)	.330	8.38	.060	1.52	.450	11.43	232
*SFX01/XX-O-M0	1 (361/.0152)	.375	9.52	.080	2.03	.535	13.59	293
*SFX1/XX-O-M0	1/0 (361/.0170)	.420	10.67	.080	2.03	.580	14.73	339
*SFX2/XX-O-M0	2/0 (361/.0191)	.470	11.94	.080	2.03	.630	16.00	390
*SFX3/XX-O-M0	3/0 (361/.0214)	.525	13.33	.080	2.03	.685	17.40	451
*SFX4/XX-O-M0	4/0 (361/.0241)	.590	14.99	.080	2.03	.750	19.05	529
*SFX260/XX-O-M0	260MCM (646/24)	.657	16.69	.095	2.41	.847	21.51	585
*SFX313/XX-O-M0	313MCM (779/24)	.720	18.39	.095	2.41	.910	23.11	654
*SFX375/XX-O-M0	375MCM (932/24)	.785	19.94	.095	2.41	.975	24.77	745
*SFX535/XX-O-M0	535MCM (1330/24)	.943	23.95	.110	2.79	1.163	29.54	934





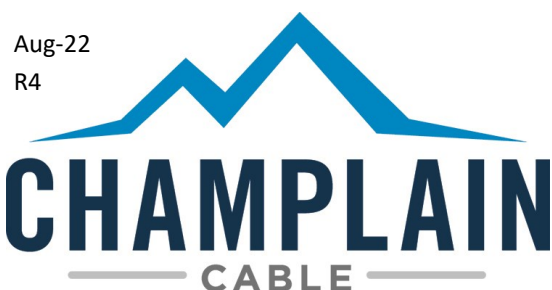
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UL 3271 / 3289

PROPERTIES	EXAR® SFX 150 - Oil Resistant
Approvals / Listings:	
UL	UL STYLE 3289 / 3271
CSA	AWM CL1251, CL1503
Physical Properties:	
Temperature Rating (UL 3271 / 3289)	125 / 150°C
Voltage Rating (Vrms)	600VAC / 750VDC
Scrape Abrasion Resistance	3156 cycles (16 AWG)
Shore "A" Hardness	83
Shore "D" Hardness	33
Cold Bend - 4h @ -70°C	Passes
Bend Radius	3x Overall Diameter
Tensile Strength:	
Unaged	2,900 psi
Retention after 7 days @ 180°C	Pass (> 80%)
Elongation:	
Unaged	350%
Retention after 7 days @ 180°C	Pass (> 80%)
Flame Test: *	
UL 758 and FT2 Horizontal Burn 8awg and smaller; VW-1 / FT1 6awg and larger	Passes
UL Oil Resistance 60°C maximum.	
96 hrs. @100°C	Tensile + Elongation 50% min.
	Tensile 58% Elongation 82%
Chemical Resistance	
Acetone	Swell @23°C**
Acid - H2SO4 S.G. 1.260 5%	Swell @23°C**
Engine Oil - ASTM D-471 IRM-902	Swell @50°C**
Benzene	Swell @23°C/24h
Epoxy	Swell @23°C/24h
Gasoline - ASTM D-471 Fuel C	Swell @23°C**
Methanol	Swell @23°C/24h
Toluene / Xylene	Swell @23°C/24h
Mineral Oil	Swell @23°C/24h
Electrical:	
Dielectric Constant	3.2
Dielectric Breakdown Strength (Vrms)	21,300
Oxygen Index:	
	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.

Aug-22
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Manufacturing Locations:
Colchester, Vermont
El Paso, Texas
www.champcable.com