



150 SFX-OR

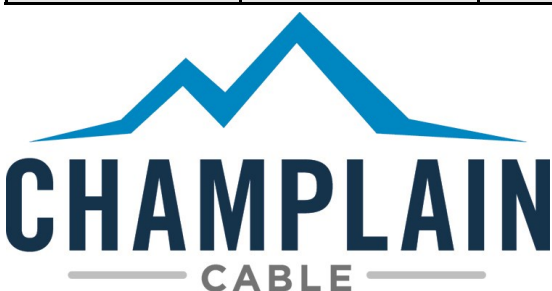
UL 3271 / 3289

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 in. mm.	Nom. Insulation Thickness in. mm.	Nom. Finished Diameter in. mm.	Nom. Finished Weight (lbs/mft)	Ampacity (40°C, Free Air)
SFX22/XX-O-B0	22 (7/30)	.031 .79	.030 .76	.095 2.41	5.81	14
SFX20/XX-O-B0	20 (7/28)	.038 .97	.030 .76	.103 2.61	7.85	18
SFX18/XX-O-D0	18 (19/.0092")	.045 1.14	.030 .76	.105 2.67	9.62	24
SFX16/XX-O-F0	16 (26/30)	.058 1.47	.030 .76	.122 3.09	13.3	31
SFX14/XX-O-H0	14 (41/30)	.073 1.85	.030 .76	.136 3.45	19.0	46
SFX12/XX-O-J0	12 (65/30)	.093 2.36	.030 .76	.150 3.81	27.1	60
SFX10/XX-O-J0	10 (65/28)	.111 2.82	.030 .76	.172 4.37	40.5	80
SFX08/XX-O-X0	8 (84/27)	.147 3.73	.045 1.14	.238 6.04	69.2	106
*SFX06/XX-O-X0	6 (84/25)	.183 4.65	.060 1.52	.305 7.75	111.5	155
*SFX04/XX-O-L0	4 (133/25)	.263 6.68	.060 1.52	.385 9.78	170.9	190
*SFX02/XX-O-M0	2 (259/26)	.307 7.80	.060 1.52	.427 10.85	244.7	232
*SFX01/XX-O-M0	1 (259/25)	.357 9.07	.080 2.03	.517 13.13	315.2	293
*SFX/1/XX-O-M0	1/0 (259/24)	.408 10.36	.080 2.03	.568 14.43	392.8	339
*SFX/2/XX-O-M0	2/0 (259/23)	.460 11.68	.080 2.03	.620 15.75	495.6	390
*SFX/3/XX-O-M0	3/0 (259/22)	.504 12.80	.080 2.03	.664 16.87	612.5	451
*SFX/4/XX-O-M0	4/0 (259/21)	.586 14.88	.080 2.03	.746 18.95	760.7	529
*SFX260/XX-O-M0	260MCM (646/24)	.657 16.69	.095 2.41	.847 21.51	932.0	585
*SFX313/XX-O-M0	313MCM (779/24)	.720 18.39	.095 2.41	.910 23.11	Contact Factory	654
*SFX375/XX-O-M0	375MCM (932/24)	.785 19.94	.095 2.41	.975 24.77	Contact Factory	745
*SFX535/XX-O-M0	535MCM (1330/24)	.943 23.95	.110 2.79	1.163 29.54	Contact Factory	934





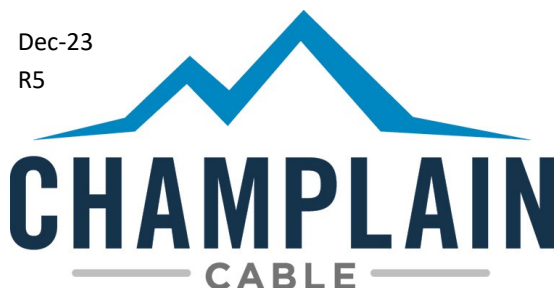
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UL 3271 / 3289

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	ISO 19642-3	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**	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
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.

Dec-23
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Manufacturing Locations:
Colchester, Vermont
El Paso, Texas
www.champcable.com