



Oil Resistant 150 SFX

Irradiation Cross-Linked Polymeric Insulation

UL 3271 / 3289 150°C 600V
CSA AWM, CL 1503 / 1251
ROHS and CE Compliant

Exar® Oil Resistant SFX is the superior flexible and heat-defying cable in its class. This innovative new irradiation cross-linked polyolefin insulation combines the oil resistance of EXAR 150 with the flexibility and rubber like feel of SFX. You can count on the same thermal, size, toughness and varnish release advantages of the original SFX, plus a UL approval for use in oil up to 60°C. SFX can now be the one lead wire you use for multiple applications and environments. EXAR SFX is the ultimate lead wire value in the motor and transformer market.



Product Number	Standard Conductors Tin Copper	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Ampacity
		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 16/30)	.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 (259/26)	.323	8.20	.060	1.52	.445	11.30	232
SFX01/XX-O-M0	1 (259/25)	.372	9.44	.060	1.52	.492	12.50	293
SFX/1/XX-O-M0	1/0 (259/24)	.424	10.77	.080	2.03	.588	14.99	339
SFX/2/XX-O-M0	2/0 (259/23)	.465	11.81	.080	2.03	.629	15.98	390
SFX/3/XX-O-M0	3/0 (259/22)	.520	13.21	.080	2.03	.684	17.37	451
SFX/4/XX-O-M0	4/0 (259/21)	.586	14.80	.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

*Ampacity based on 150°C rated single insulated conductor in free air at 40°C ambient air temperature

* Horizontal Flame Rating FT-2



Manufacturing Locations:
Colchester, Vermont
El Paso, Texas
Leeds, Massachusetts



Irradiation Cross-Linked Polymeric Insulation

Oil Resistant 150 SFX

PROPERTIES	EXAR® SFX - 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)	600V
Scrape Abrasion Resistance	500 cycles
Shore "A" Hardness	83
Shore "D" Hardness	33
Cold Bend - 4h @ -55°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 22 – 10AWG VW-1 FT1 8 – 535MCM	Passes
UL Oil Resistance 60°C maximum.	
96 hrs. @100°C	Tensile 58% Elongation 82%
Tensile + Elongation 50% min.	
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	swell@23°C/24h Not Recommended
Xylene	swell@23°C/24h Not Recommended
Electrical: *	
Dielectric Constant	3.2
Dielectric Breakdown Strength (Vrms)	21,400
Oxygen Index:	25

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Sales Offices:

