



155 SFX-OR

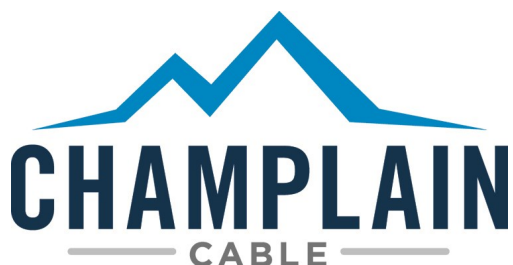
Metric

CE, 150°C, 600V, Non-UL/CSA

- Irradiation Crosslinked 150SFX-OR Insulation
- Highly Flexible for Easy Routing
- 150°C, 600V
- Cuts and Strips Consistently on the Latest High-speed Equipment
- RoHS and CE Compliant
- Won't Melt, Creep or Flow
- Cost-Effective Solution when UL/CSA is not required
- Resistant to Many Engine Oils, Fluids and Encapsulating Varnishes



Cross Section mm.	Stranding Tinned Copper	Conductor Diameter mm. (Nom.)	Insulation Thickness mm. (Nom.)	Finished Diameter mm. (Nom.)	Max. Resistance @ 20 ohms/km	Finished Weight (kg/100m)	Ampacity (40°C, Free Air)
.25	19 X 0.13	0.63	0.41	1.45	85.9	0.4	3
.34	19 X .016	0.78	0.41	1.60	52.1	0.6	7
.50	19 X 0.18	0.89	0.41	1.70	40.1	0.7	14
.75	24 X 0.20	1.12	0.54	2.20	26.7	1.1	18
1.0	32 X 0.20	1.30	0.65	2.60	20.0	1.5	25
1.5	30 X 0.25	1.50	0.65	2.80	13.7	1.9	31
2.5	50 X 0.25	2.03	0.68	3.37	7.2	3.0	46
4.0	56 X 0.30	2.52	0.76	4.05	5.09	4.7	60
6.0	81 X 0.30	3.30	0.95	5.2	3.39	6.9	80
10	78 X 0.40	4.20	1.10	6.4	1.95	11	106
16	119 X 0.40	5.20	1.20	7.6	1.24	17	155
25	182 X 0.40	6.50	1.35	9.2	.795	25	190
35	266 X 0.40	7.70	1.45	10.6	.565	36	255
50	378 X 0.40	9.20	1.55	12.3	.393	50	293
70	348 X 0.50	11.30	1.65	14.6	.277	71	390
95	444 X 0.50	12.70	1.80	16.3	.210	90	451
120	551 X 0.51	15.00	1.85	18.7	.172	111	529





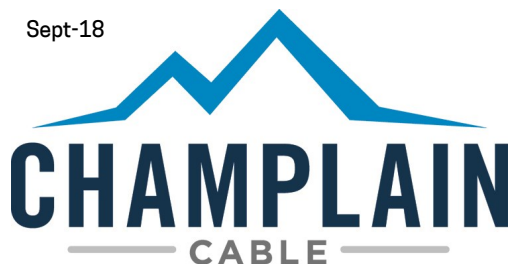
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PROPERTIES	EXAR SFX-OR 155
Physical:	
Temperature Rating	155 °C
Voltage Rating (Vrms)	450/750 V AC 0.25mm ² - 0.35mm ²
	600/1000 V AC 0.50mm ² - 95mm ²
Flexibility - 7 days @ 180 °C	Passes
Cold Bend - 4h @ -65°C	Passes
Room Temperature UL Abrasion	225 cycles
Shore "A" Hardness	86
Shore "D" Hardness	40
Bend Radius	3 x overall diameter 0.25mm ² - 35mm ²
	4 x overall diameter 35mm ² - 120mm ²
Tensile Strength:	
Unaged	3000 PSI
Retention after 7 days @ 180 °C	90%
Elongation:	
Unaged	500%
Retention after 7 days @ 180 °C	90%
Flame Test:	
Sizes 10mm and Larger = FT1	
Sizes 8.0mm and Smaller = FT2	Passes
Chemical Resistance	
Acetone	Swell @23°C/24h
	5-10%
Acid - H2SO4 S.G. 1.260 5%	Swell @23°C**
	<1%
Engine Oil - ASTM D-471 IRM-902	Swell @50°C**
	<2%
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**
	<1%
Toluene	Swell @23°C/24h
	Not recommended
Xylene	Swell @23°C/24h
	Not recommended
Mineral Oil	Swell @23°C/24h
	Not recommended
Electrical:	
Dielectric Constant	2.48
Dielectric breakdown strength (Vrms)	21,300
Oxygen Index:	26

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Manufacturing Locations:

Colchester, Vermont

El Paso, Texas

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