



155 SFX-OR

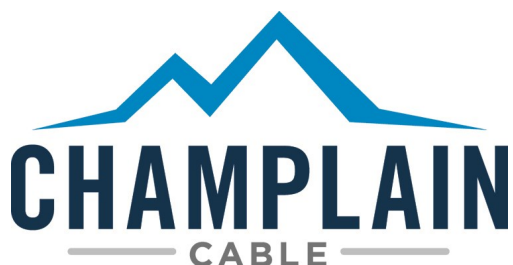
Metric

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





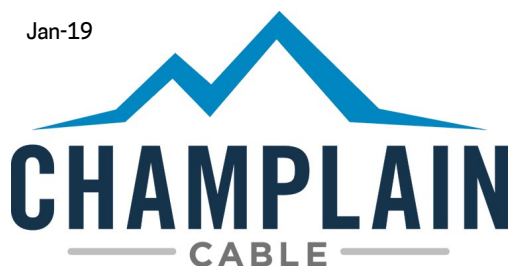
155 SFX-OR

Metric

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	Passes
Sizes 8.0mm and Smaller = FT2	
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

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