

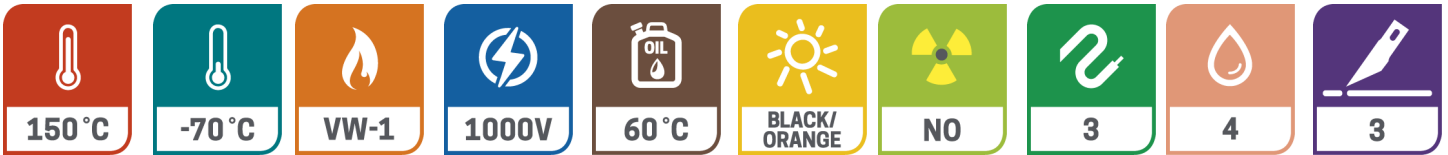


# 150 FX

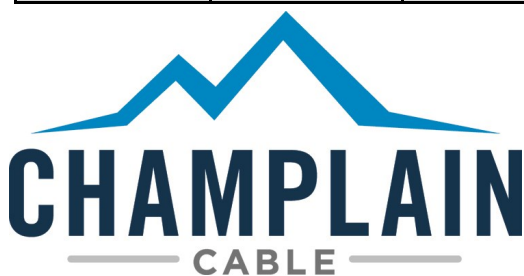
## High Voltage Battery Cable

600V/1000V, 150°C, SAE J-1127

- Highly Engineered EXRAD® 150FX Irradiation Crosslinked Polyolefin
- Exceeds SAE J-1127 STX Requirements
- Flexible, Thin, Fluid Resistant and Tough
- Performs in Hotter Environments for Longer Periods of Time.
- Withstands Thermal Excursions to 240°C and higher.
- Cuts and Strips Consistently on the Latest High-Speed Equipment



Product Number	Standard Conductors Bare Copper	Nom. Conductor Diameter		Nom. Insulation Thickness		Nom. Finished Diameter		Voltage Rating	Min. Static Bend Radius	Nom Weight (lbs/mft)	Ampacity (40°C, Free Air)
		in.	mm.	in.	mm.	in.	mm.				
<b>600V</b>											
EXRAD-FX-10XX	10 (105/30)	.112	2.84	.021	.53	.156	3.96	600	20mm	37	80
<b>1000V</b>											
EXRAD-FX-8XX	8 (133/29)	.166	4.22	.030	.76	.224	5.69	1000	28mm	62	106
EXRAD-FX-6XX	6 (133/27)	.195	4.95	.030	.76	.252	6.40	1000	32mm	94	155
EXRAD-FX-4XX	4 (133/25)	.242	6.15	.030	.76	.302	7.67	1000	38mm	146	190
EXRAD-FX-2XX	2 (665/30)	.318	8.08	.034	.86	.393	9.98	1000	50mm	235	255
EXRAD-FX-1XX	1 (779/30)	.346	8.79	.050	1.27	.440	11.18	1000	78mm	275	293
EXRAD-FX-1/0XX	1/0 (1007/30)	.390	9.91	.050	1.27	.490	12.45	1000	90mm	349	339
EXRAD-FX-2/0XX	2/0 (1254/30)	.438	11.13	.055	1.40	.548	13.92	1000	100mm	441	390
EXRAD-FX-3/0XX	3/0 (1615/30)	.475	12.07	.055	1.40	.585	14.86	1000	105mm	515	451
EXRAD-FX-4/0XX	4/0 (2107/30)	.602	15.29	.055	1.40	.712	18.08	1000	130mm	756	529





# 150 FX

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EXRAD 150 FX			SAE J1127 STX Req.	EXRAD FX 6 AWG Typical Performance
Property / Attribute				
<b>Flex Life</b>				
Flex Test	Per Modified ISO 14572		NA	NA
<b>Dielectric Strength</b>				
Dielectric Test	Wet Dielectric after 5 hour soak		1 kV 1 min.	5 kV 30 min.
<b>Flame Resistance</b>				
Flame Test	Maximum time after burn		70 Sec	1 sec
<b>Thermal:</b>				
Cold Bend	4 hours at temperature no cracks / break-down		-40°C	-70°C
Temperature Rating	240 Hours @180°C heat aging		155°C	180°C
Temperature Rating	3000 Hours @150°C		125°C	150°C
<b>Mechanical:</b>				
Tensile	Minimum psi		1500	3300
Elongation	Minimum %		150	570
Abrasion	Sand Paper Resistance Length in.		10	21
Abrasion	Scrape Cycles		None	NA
Pinch	Pounds		None	NA
<b>Ozone Resistance</b>				
Ozone Test	192 Hours @ 65°C 100 pphm no cracks		Pass	Pass
<b>Fluids</b>				
Engine Oil	ASTM D471, IRM-902	50 +/-3 °C	15% Max.	1.60%
Gasoline	ASTM D471 Ref. Fuel C	23 +/-5 °C	15% Max.	<1%
Brake Fluid	SAE-J-1703	50 +/-5 °C	None	<1%
Ethanol	85% Ethanol + 15% ASTM D471, Ref. Fuel C	23 +/-5 °C	15% Max.	<1%
Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene	23 +/-5 °C	15% Max.	1.80%
Power Steering	ASTM D471, IRM-903	50 +/-3 °C	30% Max.	1.20%
Auto Transmission	Citgo #33123 SAE-J311	50 +/-3 °C	25% Max.	5.30%
Engine Coolant	50% Ethylene Glyco + 50% distilled Water	50 +/-3 °C	15% Max.	0%
Battery Acid	H <sub>2</sub> SO <sub>4</sub> Specific Gravity = 1.260 +/- .005	23 +/-5 °C	5% Max.	<1%

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



### Manufacturing Locations:

Colchester, Vermont

El Paso, Texas

[www.champcable.com](http://www.champcable.com)