

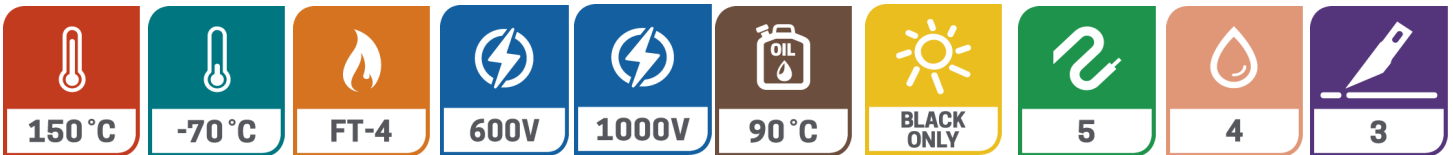


150 XLE

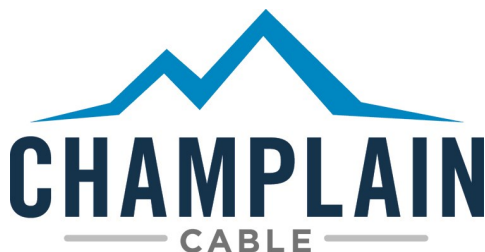
High Voltage Battery Cable

600V / 1000V, 150°C, SAE J-1127

- Highly Engineered EXTRAD[®] 150XLE Irradiation Crosslinked Polyolefin
- Exceeds SAE J-1127 STX Requirements
- Extremely Flexible, Thin, Oil Resistant and Tough
- Performs in Hotter Environments for Longer Periods of Time.
- Withstands Thermal Excursions to 240°C and higher.
- Excellent Low-Temperature Performance



Product Number	Standard Conductors Bare Copper	Nom. Conductor Diameter		Nom. Insulation Thickness		Nom. Finished Diameter		Min Bend Radius		Nom. Weight (lbs/mft)	Ampacity (40°C Free Air)
		in.	mm.	in.	mm.	in.	mm.	in.	mm		
600V											
EXRAD-XLE6-10X	10 (105/30)	.112	2.84	.025	.64	.162	4.11	.49	12.33	35.0	80
1000V											
EXRAD-XLE6-8X	8 (133/29)	.166	4.22	.035	.89	.236	5.99	.71	17.97	66.0	106
EXRAD-XLE6-6X	6 (133/27)	.195	4.95	.035	.89	.265	6.73	.80	20.19	97.0	155
EXRAD-XLE6-4X	4 (133/25)	.242	6.15	.035	.89	.312	7.92	.94	23.76	152.0	190
EXRAD-XLE6-2X	2 (665/30)	.318	8.08	.040	1.02	.398	10.10	1.20	30.30	241.0	255
EXRAD-XLE6-1X	1 (779/30)	.346	8.79	.055	1.40	.456	11.58	1.37	34.74	272.0	293
EXRAD-XLE6-1/OX	1/0 (1007/30)	.390	9.91	.055	1.40	.500	12.70	1.50	38.10	358.0	339
EXRAD-XLE6-2/OX	2/0 (1254/30)	.438	11.13	.060	1.52	.558	14.17	1.68	42.51	464.0	390
EXRAD-XLE6-3/OX	3/0 (1615/30)	.475	12.07	.060	1.52	.595	15.11	1.90	47.00	571.0	451
EXRAD-XLE6-4/OX	4/0 (2107/30)	.602	15.29	.060	1.52	.722	18.33	2.17	54.99	751.0	529





150 XLE

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Property / Attribute			SAE J1127/1654 STX Req.	EXRAD XLE 2 AWG Typical Perform- ance
Dielectric Strength				
Dielectric Test	AC Dielectric Test SAE J1654 2012-10 1000 volts rated		3000 volts AC, 35 min.	Pass
Spark Test	10,000 Volts AC		NA	100% Pass
Flame Resistance				
Flame Test	Maximum time after burn		70 Sec	0 sec
Thermal Performance				
Cold Bend	4 hours at temperature no cracks / breakdown	ISO 6722	-40 ⁰ C	Pass
Temperature Rating	240 Hours heat aging ISO 6722 10.2		175 ⁰ C	Pass
Temperature Rating	3000 Hours		150 ⁰ C	Pass
Mechanical Properties				
Tensile	Minimum psi		1600	2530
Elongation	Minimum %		200	510
Abrasion	Sand Paper Resistance Length in. 4lb		NA	151
Fluids				
Engine Oil	ASTM D471, IRM-902	50 +/-3 ⁰ C	15% Max.	.15%
Gasoline	ASTM D471 Ref. Fuel C	23 +/-5 ⁰ C	15% Max.	11.1%
Ethanol	85% Ethanol + 15% ASTM D471, Ref. Fuel C	23 +/-5 ⁰ C	15% Max.	<1%
Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene	50 +/-3 ⁰ C	15% Max.	0%
Power Steering	ASTM D471, IRM-903	50 +/-3 ⁰ C	30% Max.	1.70%
Auto Transmission	Dexron III	50 +/-3 ⁰ C	25% Max.	1%
Auto Transmission	Dexron VI	50 +/-3 ⁰ C	25% Max.	2.2%
Engine Coolant	50% Ethylene Glyco + 50% distilled Water	50 +/-3 ⁰ C	15% Max.	0%
Battery Acid	H2SO4 Specific Gravity = 1.260 +/- .005	23 +/-5 ⁰ C	5% Max.	1.5%
Hot Water	2.5 m in 85 ⁰ C Salt Sol. for 5 seven day cycles. IR >10 ⁹ Ω *mm, pass 1 Kv dielectric			Jacket >10 ⁹ Ω *mm, Passed Dielectric

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

