



150 HVFX-XLE

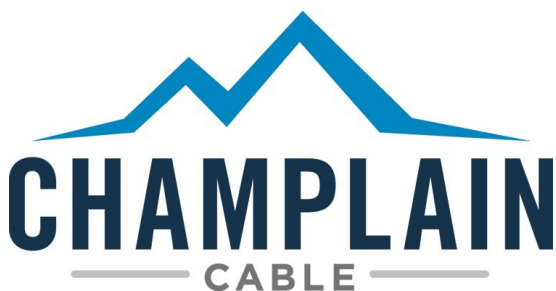
High Voltage Shielded Battery Cable

600V - 1000V, 150°C, SAE STX

- Highly Engineered EXTRAD[®] Irradiation Crosslinked Insulation and Jacket
- Very Flexible for Tight Spaces and Easy Routing
- Smaller and Tougher than Silicone or EPDM alternatives
- Exceeds J-1127 STX requirements
- Withstands Thermal Excursions to 240°C +
- Highly Oil Resistant with Excellent Low-Temperature Performance



Product Number	Standard Conductor Bare Copper	Nom. Conductor Diameter		Nom. Primary Diameter		Nom. Shield Diameter		Nom. Final Diameter		Shield Coverage	Min. Static Bend Radius	Finished Weight (lbs/mft)	Ampacity (40°C Free Air)
		in.	mm.	in.	mm.	in.	mm.	in.	mm.				
600V													
EXRAD-HVX10X	10 (105/30)	.110	2.79	.152	3.86	.170	4.32	.210	5.33	95%	24mm	77	80
1000V													
EXRAD-HVX8X	8 (133/29)	.166	4.22	.226	5.74	.249	6.32	.309	7.85	95%	36mm	143	106
EXRAD-HVX6X	6 (133/27)	.194	4.93	.264	6.45	.283	7.04	.337	8.56	95%	40mm	191	155
EXRAD-HVX4X	4 (133/25)	.242	6.15	.302	7.67	.325	8.26	.386	9.80	95%	49mm	262	190
EXRAD-HVX2X	2 (665/30)	.318	8.08	.393	9.98	.416	10.57	.476	12.09	95%	61mm	425	255
EXRAD-HVX1X	1 (779/30)	.346	8.79	.446	11.33	.469	11.91	.529	13.44	95%	68mm	500	293
EXRAD-HVX1/0X	1/0 (1007/30)	.390	9.91	.490	12.45	.518	13.16	.598	15.19	95%	76mm	650	339
EXRAD-HVX2/0X	2/0 (1254/30)	.438	11.13	.548	13.92	.576	14.63	.656	16.66	95%	84mm	820	390
EXRAD-HVX3/0X	3/0 (1615/30)	.475	12.07	.585	14.86	.613	15.57	.693	17.60	95%	88mm	968	451
EXRAD-HVX4/0X	4/0 (2107/30)	.602	15.29	.712	18.08	.740	18.80	.828	21.03	95%	105mm	1290	529





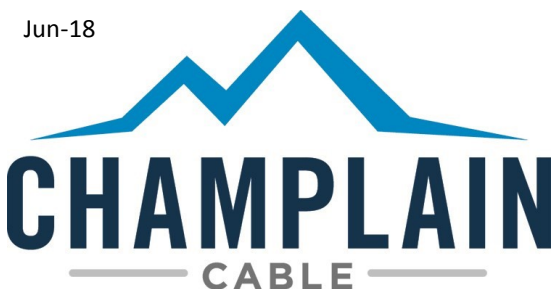
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Property / Attribute			SAE J-1127 STX Req.	EXRAD HVFX 6 AWG Typical Performance
Dielectric Strength				
Dielectric Test	Wet Dielectric after 5 hour soak		1 kV 1 min.	5 kV 30 min.
Flame Resistance				
Flame Test	Maximum time after burn		70 Sec	2 sec
Thermal Performance				
Cold Bend	4 hours at temperature no cracks / breakdown		-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
Mechanical Properties				
Tensile	Minimum psi		1500	2979
Elongation	Minimum %		150	380
Abrasion	Sand Paper Resistance Length in.		10	21
Abrasion	Scrape Cycles		None	NA
Pinch	Pounds		None	NA
Ozone Resistance				
Ozone Test	192 Hours @ 65°C 100 pphm no cracks		Pass	Pass
Fluids				
Engine Oil	ASTM D471, IRM-902	50 +/-3 °C	15% Max.	1.2%
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.	1.9%
Power Steering	ASTM D471, IRM-903	50 +/-3 °C	30% Max.	1.1%
Auto Transmission	Citgo #33123 SAE-J311	50 +/-3 °C	25% Max.	4.8%
Methanol			25% Max.	<1%
Engine Coolant	50% Ethylene Glyco + 50% distilled Water	50 +/-3 °C	15% Max.	0%
Battery Acid	H ₂ SO ₄ Specific Gravity = 1.260 +/- .005	23 +/-5 °C	5% Max.	<1%

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Manufacturing Locations:
Colchester, Vermont
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