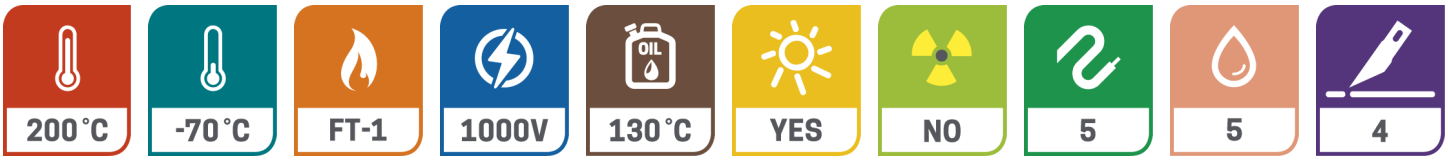
200 XLE

ISO Thick Wall

Shielded Battery Cable

1000V, 200°C, ISO-6722-1, Class F

- Highly Engineered EXRAD® XLE 200 Irradiation Crosslinked Fluoro-elastomer
- Flexible for Tight Spaces and Easy Routing
- Highly Fluid and UV Resistant
- Withstands Thermal Excursions to 275°C +
- Excellent Low-Temperature Performance
- Very Tough and Abrasion Resistant



Product Number	Standard Conductor Bare Copper	Nom. Conductor Diameter mm.	Nom Primary Diameter mm.	Nom. Shield Diameter mm.	Nom. Shield Coverage	Nom. Final Diameter mm.	Min. Static Bend Radius mm.	Nom. Finished Weight (kg/KM)	Conductor Resistance Ω per KM
EXRAD -200KW-6	6mm² (84/.30)	2.92	4.8	.26	95%	7.5	23	98	3.01
EXRAD -200KW-10	10mm² (80/.40)	3.99	6.2	6.77	95%	9.6	29	163	1.78
EXRAD -200KW-12	12mm² (154/.32)	4.88	7.0	7.57	95%	10.5	32	191	1.47
EXRAD -200KW-16	16mm² (105/.45)	5.53	8.0	8.57	95%	11.6	35	272	1.13
EXRAD -200KW-25	25mm² (798/.20)	6.98	9.6	10.47	95%	13.9	56	334	0.72
EXRAD -200KW-35	35mm² (551/.28)	8.12	10.6	11.17	95%	15.1	61	438	0.52
EXRAD -200KW-40	40mm² (494/.32)	8.89	11.8	12.37	95%	15.9	65	521	0.47
EXRAD -200KW-50	50mm² (798/.28)	9.91	12.5	13.07	95%	17.1	72	618	0.36
EXRAD -200KW-70	70mm² (1140/.28)	11.83	14.5	15.22	95%	19.3	87	870	0.26
EXRAD -200KW-95	95mm² (1957/.25)	13.2	17.0	17.72	95%	21.8	98	1150	0.19
EXRAD -200KW-120	120mm² (2442/.25)	15.24	18.7	19.42	95%	23.7	110	1411	0.15

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Qection	Bescription	Pequirement	Rypical Pesults -A0mm^ Qample(	
5.1	Outside Cable Diameter	10.4 max.	9.6mm	Pass
5.2	Insulation Thickness	0.52mm min.	1.30mm	Pass
5.3	Conductor Diameter	7.2mm max.	6.93mm	Pass
5.4	Conductor Resistance	0.46 mΩ/m @20°C max.	0.45 mΩ/m	Pass
5.5	Withstand Voltage	600V 5kV for 5 minutes	No dielectric breakdown	Pass
5.6	Insulation Faults	Spark test @ 12.5kV	No faults	Pass
5.7	Insulation Volume Resistivity	10^{9} Ω /mm min.	8.52 10^{15} Ω/mm	Pass
5.8	Pressure at High Temperature	'0.8N @180°C no dielectric breakdown	no breakdown	Pass
5.9	Strip Force / Adhesion	Per customer agreement	NA	NA
5.10	Low Temperature Winding	3 turns 2.5kg - 40°C no dielectric breakdown	No dielectric breakdown, no	Pass
5.11	Impact	300gm @-15°C no breakdown	No breakdown,	Pass
5.12.4.1	Sandpaper Abrasion	NA	NA	Pass
5.12.4.2	Scrape Abrasion	NA	NA	Pass
5.13	Long-Term Heat Aging	200°C 3000 hours	No breakdown, no cracks	Pass
5.15	Thermal Overload	250°C 6 hours	No breakdown, no cracks,	Pass
5.16	Shrinkage by heat	2mm max. 150°C	No shrinkage,	Pass
5.17	Fluid Compatibility	Gasoline 15% max.	1.2%	Pass
		Diesel Fuel 15% max.	0.3%	Pass
		Engine Oil 15% max.	0.4%	Pass
		Ethanol 15% max.	0.0%	Pass
		Power Steering 30% max	0.2%	Pass
		Automatic Transmission 25% max	0.6%	Pass
		Engine Coolant 15% max	0.2%	Pass
		Battery Acid no breakdown	No breakdown,	Pass
5.19	Ozone Resistance	45°C 85% Relative Humidity 70 hours, Ozone 50 +/- 5 pphm 1kV 1 min. (no breakdown)	No breakdown,	Pass
5.20	Resistance to hot water	not less than 10^{-9} Ω-mm	5.31X 10^{-14} Ω-mm	Pass
5.21	Temperature and Humidity Cycling	40 - 8 hours cycles -40°C and 125°C 80 - 100% relative humidity	No dielectric breakdown, no cracking,	Pass
5.22	Resistance to Flame	70 sec. max. 50mm unburned	1 .8 sec. after burn	Pass

May-19
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Manufacturing Locations:
Colchester, Vermont
El Paso, Texas
www.champcable.com