

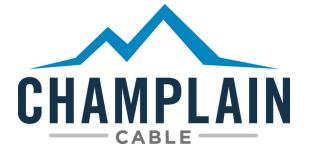


ISO-6722-1, Class F, Thin Wall, 600V / 1000V

- Highly Engineered EXRAD XLE-200
 Irradiation Crosslinked Fluoroelastomer
- Withstands Thermal Excursions to 275°C +
- Flexible for Tight Spaces and Routing
- Designed for the Most Demanding Environments
- Smaller and much tougher than Silicone alternatives
- Highly fluid resistant



		Nomi	inal	Nom. I	nsulation	Nom.	Finished	Min. S	Static	Finished	Conductor
Product Number	Std. Conductors (Bare Copper)	Conduct	tor OD in.	Thio mm.	kness in.	mm.	DD in.	Bend F	Radius in.	Weight (Kg/KM)	Resistance Ω per KM at 20°C
600V											
EXRAD-200TW-5	5.0mm ² (245/.15)	2.87	.113	0.57	.022	4.01	.158	20	0.8	47	3.94
EXRAD-200TW-6	6.0mm² (322/.15)	3.10	.122	0.57	.022	4.24	.167	20	0.8	53	3.01
EXRAD-200TW-8	8.0mm² (238/.20)	3.88	.153	0.57	.022	5.02	.198	24	1.0	83	2.38
EXRAD-200TW-10	10mm² (315/.20)	4.39	.172	0.63	.025	5.65	.222	28	1.1	134	1.78
EXRAD-200TW-12	12mm² (380/.20)	4.83	.190	0.65	.026	6.13	.241	30	1.2	155	1.47
EXRAD-200TW-16	16mm² (511/.20)	5.50	.217	0.65	.026	6.80	.267	34	1.4	197	1.13
EXRAD-200TW-20	20mm² (610/.20)	6.16	.243	0.65	.026	7.46	.294	37	1.5	219	0.91
EXRAD-200TW-25	25mm² (798/.20)	7.00	.276	0.65	.026	8.30	.326	42	1.6	243	0.72
1000V											
EXRAD-200TW-35	35mm² (1083/.20)	8.09	.319	0.91	.036	9.90	.390	59	2.3	358	0.52
EXRAD-200TW-40	40mm ² (1221/.20)	8.89	.349	0.83	.032	10.55	.415	63	2.5	415	0.47
EXRAD-200TW-50	50mm² (1615/.20)	9.77	.384	1.07	.043	11.90	.457	71	2.9	611	0.36
EXRAD-200TW-70	70mm² (1406/.25)	11.60	.456	1.25	.049	14.10	.555	85	3.4	716	0.26
EXRAD-200TW-95	95mm² (1938/.25)	13.51	.532	1.45	.057	16.40	.646	99	3.9	1178	0.19







XLE-200 Thin Wall ISO Battery Cable

Section	Description	Requirement	Typical Results (25mm ² Sample)			
5.1	Outside Cable Diameter	8.70 max.	8.61mm	Pass		
5.2	Insulation Thickness	0.52mm min.	0.78mm	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	Sparktest @ 12.5kV	no faults	Pass		
5.7	Insulation Volume Resistivity	$10^9 \Omega$ /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 F	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		

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 for loss and damage arising from the handling and use of our products whether used alone or in combination with other products.



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