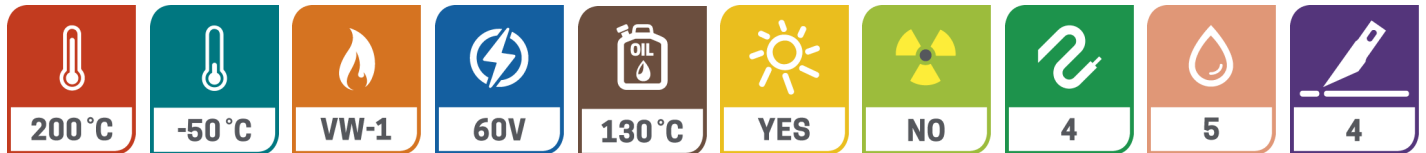




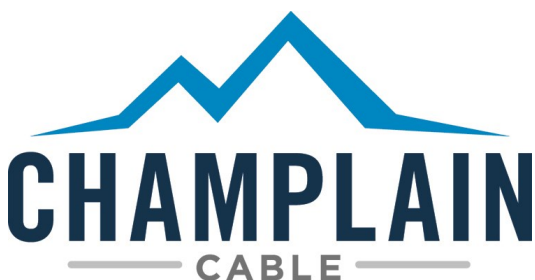
XLE 200 ISO Thin Wall Powertrain

ISO 6722-1, Thin-Wall, 200°C, 60V

- Highly Engineered EXRAD XLE-200 Irradiation Crosslinked Fluoroelastomer
- Withstands Thermal Excursions to 275°C +
- Very Flexible for Tight Spaces and Ease of Routing
- Designed for the Most Demanding Environments
- Opportunity to Eliminate Convolute Tubing, Tapes and Heat Shields
- Highly Fluid Resistant. Performs well in Engine Oil and Transmission Fluid



Product Number	Std. Conductors (Bare Copper)	Nominal Conductor OD mm.	Nom. Insulation Thickness mm.	Nom. Finished OD mm.	Finished Weight (kg/100m)
EXRAD-200TW-0.22	0.22mm ² 7/.20mm	0.61	0.26	1.15 +/- .05	0.3
EXRAD-200TW-0.35	0.35mm ² 7/.27mm	0.76	0.27	1.2 +/- .05	0.5
EXRAD-200TW-0.50	0.50mm ² 19/.18mm	0.89	0.28	1.5 +/- .1	0.8
EXRAD-200TW-0.75	0.75mm ² 19/.22mm	1.08	0.30	1.8 +/- .1	1.1
EXRAD-200TW-1.00	1.00mm ² 19/.25mm	1.22	0.30	2.0 +/- .1	1.3
EXRAD-200TW-1.50	1.50mm ² 19/.32mm	1.57	0.30	2.3 +/- .1	1.8
EXRAD-200TW-2.50	2.50mm ² 37/.29mm	1.98	0.35	2.85 +/- .15	2.9
EXRAD-200TW-4.00	4.00mm ² 37/.37mm	2.5	0.40	3.55 +/- .15	4.3



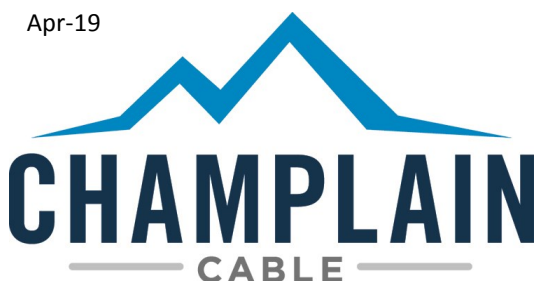


XLE 200 ISO Thin Wall Powertrain

ISO 6722-1 Class F Thin Wall EXRAD® XLE200				
Section	Description	Requirement	Typical Results (0.5mm² Sample)	
5.7	Insulation Volume Resistivity	10 ⁹ Ω/mm min.	1.39 10 ¹⁵ Ω/mm,	Pass
5.8	Pressure at High Temperature	1.1N @200°C no dielectric breakdown	no breakdown	Pass
5.9	Strip Force / Adhesion	Per customer agreement	56N	Pass
5.1	Low Temperature Winding	3 tns 0.5kg - 40°C no dielectric breakdown	no dielectric breakdown, no cracking,	Pass Pass
5.11	Impact	100gm @-40°C no breakdown	no breakdown,	Pass
5.12.4.1	Sandpaper Abrasion	.2kg 300mm min	672mm,	Pass
5.12.4.2	Scrape Abrasion	Per customer agreement	357,	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%	Pass
		Diesel Fuel 15% max.	1%	Pass
		Engine Oil 15% max.	1%	Pass
		Ethanol 15% max.	0%	Pass
		Power Steering 30% max	1%	Pass
		Automatic Transmission 25% max.	1%	Pass
		Engine Coolant 15% max	0%	Pass
		Battery Acid no breakdown	no breakdown,	Pass
5.19	Ozone Resistance	45°C 85% Relative Humidity 70 hours, Ozone 50 +/- 5 ppm 1kV 1 min. (no breakdown)	no breakdown,	Pass Pass
5.2	Resistance to hot water	not less than 10-5 ohm-mm	9.28X10 ¹² ohm-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 Pass
5.22	Res. to Flame Propagation	70 sec. max. 50mm unburned	1 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 and liability for loss and damage arising from the handling and use of our products whether used alone or in combination with other products

Apr-19



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