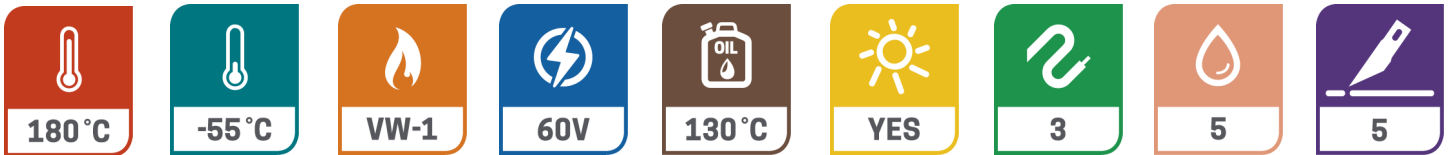




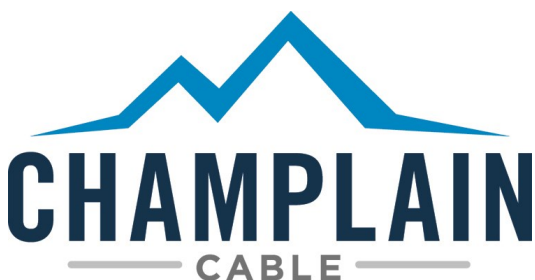
180B ISO Blocked Transmission Wire

ISO-6722-1, Class D 150°C, Thin Wall, 60V, Bare Copper

- Highly Engineered EXRAD® 180B Irradiation Crosslinked Fluoroelastomer
- Custom-Engineered Silicone Fluid Blocking Material
- Survives Temperature Spikes of 270°C and Higher
- Performs in Engines and Transmissions When Other Products Crack and Leak
- More Robust Performance for Today's Longer Warranties
- Blocks Fluid Migration Through Conductor Strands



Product Number	Standard Conductors Bare Copper	Nom. Conductor Diameter mm	Nom. Insulation Thickness mm	Nom. OD mm	Finished Weight (kg/100m)
EXRAD-180BUW-0.50	0.50mm ² 19/.18mm	0.89	0.28	1.5 +/- .1	0.8
EXRAD-180BUW -0.75	0.75mm ² 19/.22mm	1.08	0.30	1.8 +/- .1	1.1
EXRAD-180BUW -1.00	1.00mm ² 19/.25mm	1.22	0.30	2.0 +/- .1	1.3
EXRAD-180BUW -1.50	1.50mm ² 19/.32mm	1.57	0.30	2.3 +/- .1	1.8



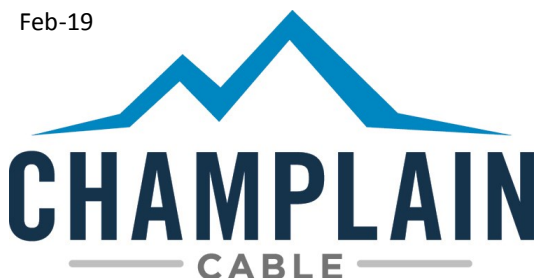


180B ISO Blocked Transmission Wire

		ISO 6722-1 Class E Thin Wall	Exrad® 180B	
		Requirement	Typical Results (2.5mm ² Sample)	Results
5.7	Insulation Volume Resistivity	10 ⁹ Ω/mm min.	4.1 x 10 ¹³ Ω/mm	Pass
5.8	Pressure at High Temperature	1.1N@ 175°C no dielectric breakdown	No breakdown	Pass
5.9	Strip Force / Adhesion	Per customer agreement	49N	NA
5.10	Low Temperature Winding	3 tns 2.5kg - 40°C no dielectric breakdown	No dielectric breakdown, No cracking	Pass
5.11	Impact	100gm @-40°C no breakdown	No breakdown,	Pass
5.12.4.1	Sandpaper Abrasion	.5kg 250mm min.	790mm	Pass
5.12.4.2	Scrape Abrasion	Per Customer Agreement	2072	Pass
5.13	Long-Term Heat Aging	175°C 3000 hours	No breakdown, no cracks	Pass
5.15	Thermal Overload	225°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.	0%	Pass
		Diesel Fuel 15% max.	0%	Pass
		Engine Oil 15% max.	0%	Pass
		Ethanol 15% max.	0%	Pass
		Power Steering 30% max	0%	Pass
		Automatic Transmission 25% max	0%	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 pphm 1kV 1 min. (no breakdown)	No breakdown,	Pass
5.20	Resistance to hot water	Not less than 10 ⁵ Ω-mm	1X 10 ¹¹ Ω-mm	Pass
5.21	Temperature and Humidity Cycling	40 x 8 hour 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	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 and liability for loss and damage arising from the handling and use of our products whether used alone or in combination with other products

Feb-19



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