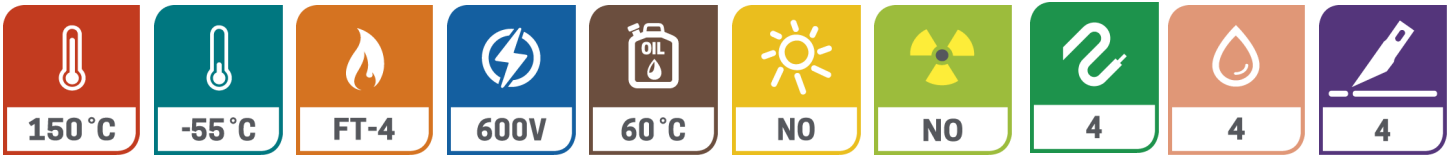




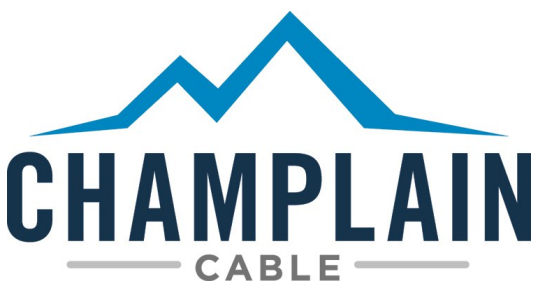
150 HVUT SAE High Voltage Primary Wire

Exceeds SAE J-1128 TXL, 150°C, 600V

- Highly Engineered EXTRAD[®] 150HVUT Irradiation Crosslinked Polyolefin
- Higher Temperature and More Fluid Resistant than Standard SAE J-1128 TXL
- Survives Temperature Spikes of 240°C and Higher
- SAE J-1654-1994 High Voltage Rating for EV/HEV Applications
- More Robust Performance for Today's Longer Vehicle Warranties
- Life Expectancy of Over 10,000hrs at 125°C



Product Number	Standard Conductors Bare Copper	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
EXRAD-HVUT20-XX	20 (7/28)	.035	.89	.016	.41	.070	1.78	4.85	15
EXRAD-HVUT18-XX	18 (19/0092)	.047	1.19	.016	.41	.078	1.98	6.51	21
EXRAD-HVUT16-XX	16 (19/29)	.057	1.44	.016	.41	.089	2.26	9.32	28
EXRAD-HVUT14-XX	14 (19/27)	.071	1.85	.016	.41	.103	2.62	14.15	46
EXRAD-HVUT12-XX	12 (105/32)	.095	2.41	.018	.46	.128	3.25	23.50	60
EXRAD-HVUT10-XX	10 (105/30)	.112	2.84	.018	.46	.156	3.96	38.90	80



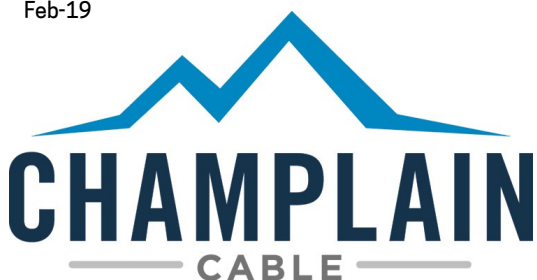


150 HVUT SAE High Voltage Primary Wire

Property / Attribute		SAE J1128/1654 TXL	EXRAD 150HVUT 18 AWG Typical
Dielectric Strength			
Dielectric Test	AC Dielectric Test SAE J1654 1994-600 volts rated	2500 volts AC, 1 min.	Pass
Spark Test	6,000 Volts AC	NA	100% Pass
Flame Resistance			
Flame Test	Maximum time after burn	70 Sec	9 sec
Thermal Performance			
Cold Bend	4 hours at temperature no cracks / breakdown	ISO 6722	-40°C
Temperature Rating	240 Hours heat aging ISO 6722 10.2		175°C
Temperature Rating	3000 Hours		150°C
Mechanical Properties			
Tensile	Minimum psi		1500
Elongation	Minimum %		150
Abrasion	Sand Paper Resistance Length in.		10
Fluids			
Engine Oil	ASTM D471, IRM-902	50 +/-3 °C	15% Max.
Gasoline	ASTM D471 Ref. Fuel C	23 +/-5 °C	15% Max.
Ethanol	85% Ethanol + 15% ASTM D471, Ref. Fuel C	23 +/-5 °C	15% Max.
Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene	50 +/-3 °C	15% Max.
Power Steering	ASTM D471, IRM-903	50 +/-3 °C	30% Max.
Auto Transmission	Citgo 33123 SAE-J311II	50 +/-3 °C	25% Max.
Engine Coolant	50% Ethylene Glyco + 50% distilled Water	50 +/-3 °C	15% Max.
Battery Acid	H2SO4 Specific Gravity = 1.260 +/- .005	23 +/-5 °C	5% Max.
Hot Water	2.5 m in 85°C Salt Sol. for 5 seven day cycles. IR >10 ⁹ ☒ *mm, pass 1 Kv dielectric		Jacket >10 ⁹ ☒*mm, Passed Dielectric

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