



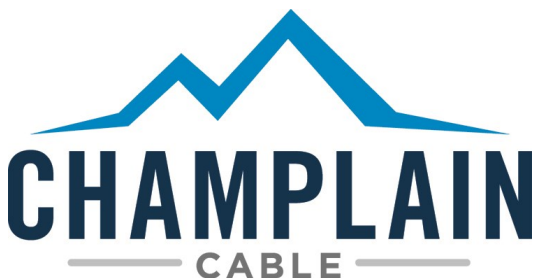
150 UT SAE TXL Powertrain

SAE J-1128 TXL 150°C 60V

- Highly Engineered EXTRAD[®] 150UT • Opportunity to Eliminate Convolute Irradiation Crosslinked Polyolefin Tubing, Tapes and Heat Shields
- Higher Temperature and More Fluid Resistant than Standard SAE J-1128 TXL • More Robust Performance for Today's Longer Vehicle Warranties
- Survives Temperature Spikes of 240°C and Higher • Life Expectancy of Over 10,000hrs at 125°C



Product Number	Standard Conductors Bare Copper	Nom. Conductor Diameter		Nom. Insulation Thickness		Nom. Finished OD		Nom. Finished Weight (lbs/mft)	Ampacity At 40°C in Free Air
		in.	mm.	in.	mm.	in.	mm.		
EXRAD-UT24-XX	24 (7/32)	.024	.61	.016	.41	.054	1.37	2.40	6
EXRAD-UT22-XX	22 (7/30)	.031	.79	.016	.41	.063	1.60	3.28	11
EXRAD-UT20-XX	20 (7/28)	.035	.89	.016	.41	.070	1.78	4.85	15
EXRAD-UT18-XX	18 (19/0092)	.047	1.19	.016	.41	.078	1.98	6.51	21
EXRAD-UT16-XX	16 (19/29)	.057	1.44	.016	.41	.089	2.26	9.32	28
EXRAD-UT14-XX	14 (19/27)	.071	1.85	.016	.41	.103	2.62	14.15	46
EXRAD-UT12-XX	12 (105/32)	.095	2.41	.018	.46	.128	3.25	23.50	60
EXRAD-UT10-XX	10 (105/30)	.112	2.84	.018	.46	.156	3.96	38.90	80



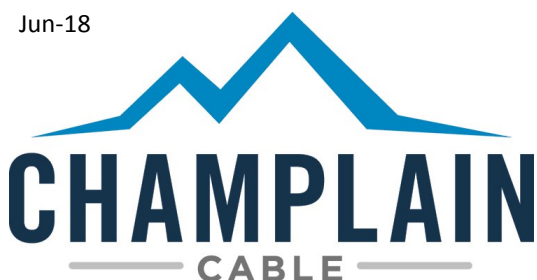


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Property / Attribute			SAE J-1128 TXL Requirement	EXRAD 150 UT 18 AWG Typical Performance
Flex Life				
Flex Test	Per Modified ISO 14572		NA	NA
Dielectric Strength				
Dielectric Test	Wet Dielectric after 5 hour soak		1 kV 1 min.	5 kV 30 min.
Flame Resistance				
Flame Test	Maximum time after burn		70 Sec	9 sec
Thermal Performance				
Cold Bend	4 hours at temperature no cracks / breakdown		-40°C	-55°C
Temperature Rating	240 Hours @180°C heat aging		155°C	180°C
Temperature Rating	3000 Hours @150°C		125°C	150°C
Temperature Rating	10000 Hours @125°C		NA	125°C
Mechanical Properties				
Tensile	Minimum psi		1500	3000
Elongation	Minimum %		150	375
Abrasion	Sand Paper Resistance Length in.		10	75
Abrasion	Scrape Cycles		None	NA
Pinch	Pounds		None	10.2
Ozone Resistance				
Ozone Test	192 Hours @ 65°C 100 pphm no cracks		Pass	Pass
Fluids				
Engine Oil	ASTM D471, IRM-902	50 +/-3 °C	15% Max.	1%
Gasoline	ASTM D471 Ref. Fuel C	23 +/-5 °C	15% Max.	2%
Brake Fluid	SAE-J-1703	50 +/-5 °C	None	2%
Ethanol	85% Ethanol + 15% ASTM D471, Ref. Fuel C	23 +/-5 °C	15% Max.	2%
Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene	23 +/-5 °C	None	2%
Power Steering	ASTM D471, IRM-903	50 +/-3 °C	30% Max.	1%
Auto Transmission	Citgo #33123 SAE-J311	50 +/-3 °C	25% Max.	3%
Methanol			15% Max.	1%
Engine Coolant	50% Ethylene Glyco + 50% distilled Water	50 +/-3 °C	15% Max.	<1%
Battery Acid	H ₂ SO ₄ Specific Gravity = 1.260 +/- .005	23 +/-5 °C	5% Max.	<1%

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

Jun-18



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