

## 150UT Powertrain

## SAE-TXL-150°C-60V

**EXRAD 150UT** is a high performance wire built to handle the increasingly brutal environment under the hood. It is an irradiation cross-linked polyolefin with impressive properties. It significantly reduces wire and harness routing headaches because it is more heat resistant, tougher and more fluid resistant than TXL. EXRAD 150UT is rated at 150°C, but it survives temperatures to 240°C and higher. It is safer in overload conditions because it will not melt.

EXRAD 150 UT creates opportunities to eliminate unnecessary and expensive convolute tubing, tapes and heat shields that protect inferior wire systems. Given today's longer warranties you need a wire that will last longer than ever before. New standards are now requiring 10,000 hour heat age tests. EXRAD 150UT has a life expectancy over 10,000 hours at 125°C.

EXRAD 150UT processes very well on automated high speed cut and strip equipment. The end result is an automotive wire ideally suited to applications where heat protection, long life and less expensive wiring harnesses are required.















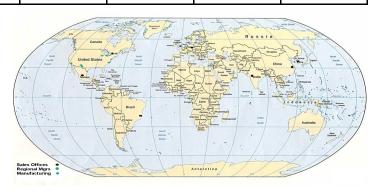






Product Number	Standard	Nom. Dia of	Insulation	Nom.	Finished	
	Conductors	Conductor	Thickness	OD	Weight	Ampacity
	Bare Copper	in. mm.	in. mm.	in. mm.	(lbs/mft)	
EXRAD-UT24-XX	24 (7/32)	.024 .61	.016 .41	.054 1.37	2.40	6
EXRAD-UT22-XX	22 (7/30)	.031 .79	.016 .41	.063 1.60	3.28	11
EXRAD-UT20-XX	20 (7/28)	.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







## 150UT Powertrain

F	Property / Attribute	SAE J1128 TXL Req.	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 <sup>0</sup> 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		0 -		
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	$H_2SO_4$ 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



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