



EXRAD[®] 150 UT Cable

Irradiation Cross-Linked Polymeric Insulation

ISO 6722-1 Class D Thin Wall 150°C 60V ROHS and CE Compliant

EXRAD 150 UT is a high performance wire which meets the requirements of ISO 6722-1 150°C thin wall wire. It is an irradiation cross-linked polyolefin with impressive properties. EXRAD 150UT is rated at 150°C, but it survives temperatures to 240°C and higher for short periods of time. 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. 150 UT meets or exceeds the ISO 6722-1 standards that are commonly used in Europe and now in use, in North American vehicles.

EXRAD150 UT 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 Conductors Bare Copper	Nom. Dia of Conductor mm	Insulation Thickness mm	Nom. OD mm	Finished Weight (kg/100m)
EXRAD-UT-0.35	0.35mm ² 19/.16mm	0.78	0.28	1.3 +/- .1	0.7
EXRAD-UT-0.50	0.50mm ² 19/.18mm	0.89	0.28	1.5 +/- .1	0.7
EXRAD-UT-0.75	0.75mm ² 19/.22mm	1.08	0.30	1.8 +/- .1	0.9
EXRAD-UT-1.00	1.00mm ² 19/.25mm	1.22	0.30	2.0 +/- .1	1.1
EXRAD-UT-1.50	1.50mm ² 19/.32mm	1.57	0.30	2.3 +/- .1	1.6
EXRAD-UT-2.50	2.50mm ² 37/.29mm	1.98	0.35	2.85 +/- .15	2.6
EXRAD-UT-4.00	4.00mm ² 37/.37mm	2.50	0.40	3.55 +/- .15	4.1



Manufacturing Locations:
Colchester, Vermont
El Paso, Texas
Leeds, Massachusetts



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ISO 6722-1 Class D Thin Wall			EXRAD 150 UT	
Section	Description	Requirement	Typical Results (0.75mm ² Sample)	
5.7	Insulation Volume Resistivity	10 ⁹ Ω /mm min.	6.43 10 ¹⁸ Ω /mm,	Pass
5.8	Pressure at High Temperature	0.8N @150°C no dielectric breakdown	no breakdown	Pass
5.9	Strip Force / Adhesion	Per customer agreement	35N	Pass
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	.2kg 350mm min	730mm,	Pass
5.12.4.2	Scrape Abrasion	Per customer agreement	2430,	Pass
5.13	Long-Term Heat Aging	150°C 3000 hours	no breakdown, no cracks	Pass
5.15	Thermal Overload	200°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.	3%	Pass
		Engine Oil 15% max.	2%	Pass
		Ethanol 15% max.	3%	Pass
		Power Steering 30% max	1%	Pass
		Automatic Transmission 25% max.	2%	Pass
		Engine Coolant 15% max	1%	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 ohm-mm	5.35 X10 ¹⁴ 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
5.22	Resistance to Flame Propagation	70 sec. max. 50mm unburned	8 sec. after burn,	Pass

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