



# AUTOMOTIVE

Inventing *the Future* of Wire and Cable

## EXRAD 150 UT ISO 6722 Thin Wall Powertrain Wire -55 - 150°C

EXRAD 150 UT is a high performance wire which meets the requirements of ISO 6722 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 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.

### Benefits and Features

Excellent sand paper and scrape abrasion Resistance

-55°C to 150°C Temperature Range

Superior Cut and Strip Processing

Meets Requirements of:

Ford ES-AU5T-1A348-AA

GM GMW15626

Volvo T-4

### Applications

Including but not limited to:

Under-hood

Coil on plug

Sensors

Locations near exhaust manifolds or other high temperature areas

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

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ISO 6722		EXRAD 150 UT	
Section	Description	Requirement	Typical Results (0.75mm <sup>2</sup> Sample)
6.4	Insulation Volume Resistivity	10 <sup>9</sup> Ω /mm min.	6.43 10 <sup>18</sup> Ω /mm, Pass
7.1	Pressure at High Temperature	'0.8N @150°C no dielectric breakdown	no breakdown Pass
7.2	Strip Force / Adhesion	Per customer agreement	35N Pass
8.1	Low Temperature Winding	3 tns 2.5kg - 40°C no dielectric breakdown	no dielectric breakdown, no cracking, Pass
8.2	Impact	100gm @-40°C no breakdown	no breakdown, Pass
9.2	Sandpaper Abrasion	.2kg 350mm min	730mm, Pass
9.3	Scrape Abrasion	Per customer agreement	2430, Pass
10.1	Long-Term Heat Aging	150°C 3000 hours	no breakdown, no cracks Pass
10.3	Thermal Overload	200°C 6 hours	no breakdown, no cracks, Pass
10.4	Shrinkage by heat	2mm max. 150°C	no shrinkage, Pass
11.2	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
11.4	Ozone Resistance	45°C 85% Relative Humidity 70 hours, Ozone 50 +/- 5 pphm 1kV 1 min. (no breakdown)	no breakdown, Pass
11.5	Resistance to hot water	not less than 10-5 ohm-mm	5.35 X10 <sup>14</sup> ohm-mm Pass
11.7	Temperature and Humidity Cycling	40 - 8 hours cycles -40°C and 125°C 80 -100% relative humidity	no dielectric breakdown, no cracking, Pass
12	Resistance to Flame Propagation	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

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