



AUTOMOTIVE

Inventing *the Future* of Wire and Cable

RADXL 150UT

Powertrain Wire

-55 - 150°C

RADXL 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. RADXL 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.

RADXL 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. RADXL 150UT has a life expectancy over 10,000 hours at 125°C.

RADXL 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.

Benefits and Features

- Excellent Cut-Through Resistance
- Excellent Abrasion Resistance
- Very Fluid Resistant
- 55°C to 150°C Temperature Range
- Superior Cut and Strip Processing
- RoHs Compliant

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		Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
RADXL-UT24-XX	24 (7/32)	.024	.61	.016	.41	.054	1.37	2.40	6
RADXL-UT22-XX	22 (7/30)	.031	.79	.016	.41	.063	1.60	3.28	11
RADXL-UT20-XX	20 (7/28)	.035	.89	.016	.41	.070	1.78	4.85	15
RADXL-UT18-XX	18 (19/.0092)	.047	1.19	.016	.41	.078	1.98	6.51	21
RADXL-UT16-XX	16 (19/29)	.057	1.83	.016	.41	.089	2.26	9.32	28
RADXL-UT14-XX	14 (19/27)	.071	1.85	.016	.41	.103	2.62	14.15	46
RADXL-UT12-XX	12 (105/32)	.095	2.41	.018	.46	.128	3.25	23.50	60
RADXL-UT10-XX	10 (105/30)	.112	2.84	.018	.46	.156	3.96	38.90	80

* Ampacity 150°C rated single-insulated conductor in free air at 40°C ambient air temperature.

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Property / Attribute			SAE J-1128 TXL Req.	RADXL150 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%

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