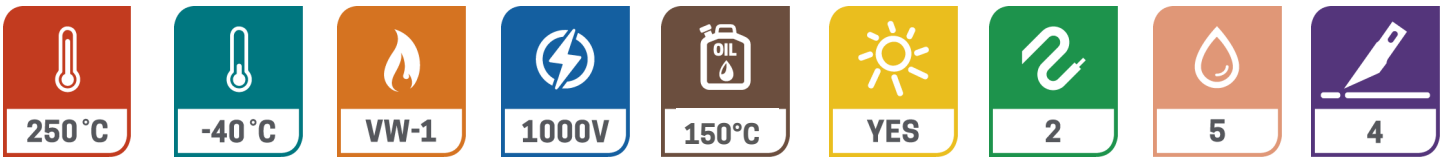
250HT Powertrain Wire

SAE TXL Dimensions, 250°C, 1000V, Bare Copper

- High-Performing EXRAD® 250HT Fluoropolymer
- Excellent Resistance to Oil, Gasoline, and Many Automotive Fluids
- Survives Temperature Spikes of 290°C and Higher for 360 hours
- Performs in Extreme Environments Around Engines and Exhaust
- More Robust Performance for Todays Longer Warranties
- Very Tough and Abrasion Resistant



Product Number	Standard Conductors Bare Copper	Nom. Conductor Diameter in.	Nom. Conductor Diameter mm.	Nom. Insulation Thickness in.	Nom. Insulation Thickness mm.	Nom. Finished Diameter in.	Nom. Finished Diameter mm.	Nom. Finished Weight (lbs/mft)	Ampacity At 40°C in Free Air
EXRAD-HT22-XX	22 (7/30)	.031	.79	.016	.41	.063	1.60	4.35	11
EXRAD-HT20-XX	20 (7/28)	.035	.89	.016	.41	.070	1.78	5.99	15
EXRAD-HT18-XX	18 (19/.0092)	.047	1.19	.016	.41	.078	1.98	7.85	21
EXRAD-HT16-XX	16 (19/29)	.057	1.83	.016	.41	.089	2.26	10.82	28
EXRAD-HT14-XX	14 (19/27)	.071	1.85	.016	.41	.103	2.62	15.76	46
EXRAD-HT12-XX	12 (105/32)	.095	2.41	.018	.46	.128	3.25	23.57	60

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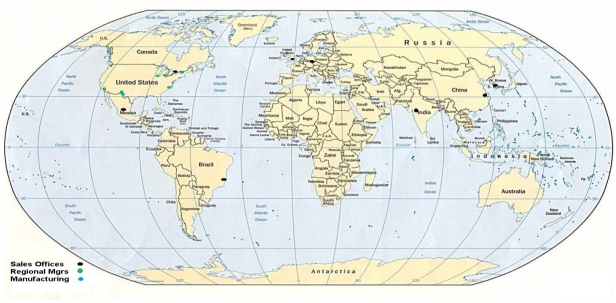

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Property / Attribute			SAE J-1128 TXL Req.	EXRAD 250 HT 18 AWG Typical Performance
Dielectric Strength				
Dielectric Test	Wet Dielectric after 5 hour soak		1 kV 1 min.	5 kV 30 min.
Flame Resistance				
Flame Test	Maximum time after burn		70 Sec	0 sec
Thermal Performance				
Cold Bend	4 hours at temperature no cracks / breakdown		-40^{0}C	-40^{0}C
Temperature Rating	360 Hours @290°C heat aging		155^{0}C	290^{0}C
Temperature Rating	3,000 Hours @250°C		125^{0}C	250^{0}C
Temperature Rating	10,000 Hours @225°C		N/A	225^{0}C
Mechanical Properties				
Tensile	Minimum psi		1500	3600
Elongation	Minimum %		150	350
Abrasion	Sand Paper Resistance Length in.		10	96
Abrasion	Scrape Cycles		None	2440
Pinch	Pounds		>7	8.5
Ozone Resistance				
Ozone Test	192 Hours @ 650C 100 pphm no cracks		Pass	Pass
Fluids				
Engine Oil	ASTM D471, IRM-902	50 +/-3 ^{0}C	15% Max.	<1% @90^0 C
Gasoline	ASTM D471 Ref. Fuel C	23 +/-5 ^{0}C	15% Max.	<1%
Brake Fluid	SAE-J-1703	50 +/-5 ^{0}C	None	<1%
Ethanol	85% Ethanol + 15% ASTM D471, Ref. Fuel C	23 +/-5 ^{0}C	15% Max.	<1%
Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene	23 +/-5 ^{0}C	None	<1%
Power Steering	ASTM D471, IRM-903	50 +/-3 ^{0}C	30% Max.	<1% @90^0 C
Auto Transmission	Citgo #33123 SAE-J311	50 +/-3 ^{0}C	25% Max.	<1% @90^0 C
Methanol			15% Max.	1%
Engine Coolant	50% Ethylene Glyco + 50% distilled Water	50 +/-3 ^{0}C	15% Max.	<1%
Battery Acid	H2S04 Specific Gravity = 1.260 +/- .005	23 +/-5 ^{0}C	5% Max.	<1%

Aug-18

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