



AUTOMOTIVE

Inventing *the Future* of Wire and Cable



RADXL FX

Battery Cable

-70 - 150°C

RADXL FX high performance battery cable designed specifically for the best flexibility and long life. As engine compartments grow smaller, operating temperatures get hotter and electronics proliferate under the hood. RADXL FX battery cable fulfills these demands.

RADXL battery cable has an irradiated cross-linked polyolefin insulation able to withstand temperatures of 240°C and higher. Thinner and lighter than other conventional battery cables, it is flexible enough for easy routing yet tough enough to withstand the roughest environments.

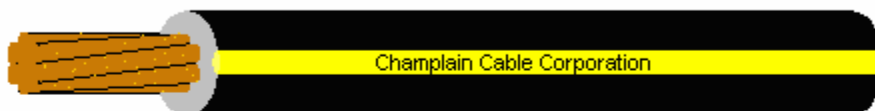
The end result is an automotive wire ideally suited to applications where a combination of flexibility, long life and performance is required. Save money and reduce weight by shortening the cable length. RADXL FX can be routed through twists and turns where other battery cables fail

Benefits and Features

- Thin, uses up to 40% less space
- Very Flexible
- Standard Dimensions of SAE J1127 STX
- Fluid Resistant
- 70°C to 150°C Temperature Range
- Superior Processing

Applications

- Including but not limited to:
- Batteries
 - Starters
 - Power Distribution
 - Ground Wire



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-FX-10XX	10 (105/30)	.112	2.84	.021	.53	.156	3.96	37.6	80
RADXL-FX-8XX	8 (133/29)	.166	4.22	.030	.76	.224	5.69	62.0	106
RADXL-FX-6XX	6 (133/27)	.195	4.95	.030	.76	.252	6.40	94.0	155
RADXL-FX-4XX	4 (133/25)	.242	6.15	.030	.76	.302	7.67	146.0	190
RADXL-FX-2XX	2 (665/30)	.318	8.08	.034	.86	.393	9.98	235.0	255
RADXL-FX-1XX	1 (779/30)	.346	8.79	.050	1.27	.440	11.18	275.0	293
RADXL-FX-1/0XX	1/0 (1007/30)	.390	9.91	.050	1.27	.490	12.45	349.0	339
RADXL-FX-2/0XX	2/0 (1254/30)	.438	11.13	.055	1.40	.548	13.92	441.0	390
RADXL-FX-3/0XX	3/0 (1568/30)	.520	13.21	.055	1.40	.640	16.26	515.0	451
RADXL-FX-4/0XX	4/0 (2107/30)	.602	15.29	.055	1.40	.712	18.08	756.0	529

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

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Property / Attribute			SAE J-1127 STX Req.	RADXL FX 6 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	1 sec
Thermal Performance				
Cold Bend	4 hours at temperature no cracks / breakdown		-40°C	-70°C
Temperature Rating	240 Hours @180°C heat aging		155°C	180°C
Temperature Rating	3000 Hours @150°C		125°C	150°C
Mechanical Properties				
Tensile	Minimum psi		1500	3300
Elongation	Minimum %		150	570
Abrasion	Sand Paper Resistance Length in.		10	21
Abrasion	Scrape Cycles		None	NA
Pinch	Pounds		None	NA
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.	1.60%
Gasoline	ASTM D471 Ref. Fuel C	23 +/-5 °C	15% Max.	<1%
Brake Fluid	SAE-J-1703	50 +/-5 °C	None	<1%
Ethanol	85% Ethanol + 15% ASTM D471, Ref. Fuel C	23 +/-5 °C	15% Max.	<1%
Diesel Fuel	ASTM D471, 90% IRM-903 + 10% p-xylene	23 +/-5 °C	15% Max.	1.80%
Power Steering	ASTM D471, IRM-903	50 +/-3 °C	30% Max.	1.20%
Auto Transmission	Citgo #33123 SAE-J311	50 +/-3 °C	25% Max.	5.30%
Methanol			25% Max.	<1%
Engine Coolant	50% Ethylene Glyco + 50% distilled Water	50 +/-3 °C	15% Max.	0%
Battery Acid	H ₂ SO ₄ Specific Gravity = 1.260 +/- .005	23 +/-5 °C	5% Max.	<1%

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