

Irradiation Cross-Linked Polymeric Insulation

EXRAD® FX Shielded High Voltage Cable

EXRAD FX 1000 VOLT SHIELDED CABLE

EXRAD FX 1000 volt shielded battery cable designed specifically to handle the higher voltage and current required by today's hybrid and electric power vehicles. These cables significantly reduce the effects of EMI and RFI. The jacket insulation isolates any stray currents making this cable very safe. Our thin wall and high temperature insulations allow for lower weight and less space.

EXRAD FX 1000 volt shielded battery cable has an irradiated cross-linked polyolefin insulation able to withstand temperatures of 240°C and higher. Thinner and lighter than other shielded 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. EXRAD FX 1000 volt shielded battery cable can be routed through twists and turns where other battery cables fail.















Orange









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

Product Number	Standard Conductors Bare Copper		n. Dia ductor mm.	Pri insu	n. Dia. mary ılation	Nom. Dia Shield in. mm.	Nom. Dia. Outside in. mm.	Shield Coverage	Min. Static Bend	Weight lbs/mft	Ampa- city
EVEAR FOVABLE	10 (10(00)	055	1 10	in.	mm.	105 007	1.15	250/	Radius	47.0	0.4
EXRAD-FSX16X	16 (19/29)	.055	1.40	.087	2.21	.105 2.67	.145 3.68	95%	22mm	17.8	31
EXRAD-FSX14X	14 (105/34)	.070	1.78	.100	2.54	.118 3.00	.168 4.27	95%	27mm	26.1	46
EXRAD-FSX12X	12 (105/32)	.095	2.40	.127	3.22	.150 3.80	.190 4.83	95%	29mm	41.0	60
EXRAD-FSX10X	10 (105/30)	.114	2.89	.156	3.96	.178 4.52	.218 5.54	95%	33mm	58.0	80
EXRAD-FSX8X	8 (133/29)	.166	4.22	.224	5.69	.252 6.40	.303 7.70	95%	55mm	92.0	106
EXRAD-FSX6X	6 (133/27)	.195	4.95	.252	6.40	.280 7.11	.330 8.37	95%	60mm	126.0	155
EXRAD-FSX4X	4 (133/25)	.242	6.15	.302	7.67	.326 8.28	.386 9.80	95%	70mm	187.0	190
EXRAD-FSX2X	2 (665/30)	.318	8.08	.393	9.98	.421 10.69	.481 12.21	95%	85mm	295.0	255
EXRAD-FSX1X	1 (779/30)	.346	8.79	.440	11.18	.468 11.89	.528 13.41	95%	94mm	334.0	293
EXRAD-FSX1/0X	1/0 (1007/30)	.390	9.91	.490	12.45	.518 13.57	.598 15.19	95%	105mm	412.0	339
EXRAD-FSX2/0X	2/0 (1254/30)	.438	11.13	.548	13.92	.571 14.50	.651 16.54	95%	115mm	523.0	390
EXRAD-FSX3/0X	3/0 (1615/30)	.475	12.07	.585	14.86	.613 15.57	.693 17.60	95%	125mm	620.0	451
EXRAD-FSX4/0X	4/0 (2107/30)	.602	15.29	.712	18.08	.748 19.00	.828 21.03	95%	150mm	876.0	529





EXRAD[®] FXShielded High Voltage Cable

Irradiation Cross-Linked Polymeric Insulation

EXRAD FX 1000 Volt Cable										
1	SAE J-1127 STX Req.	EXRAD FX 6 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	1 sec						
Thermal Performance										
Cold Bend	4 hours at temperature no cracks / breakdown		-40°C	-40°C						
Temperature Rating	240 Hours @180°C heat aging		155°C	180°C						
Temperature Rating	3000 Hours @150 ^o 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 ⁰ 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	$50 + /-5$ 0 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_2SO_4 Specific Gravity = 1.260 +/005	23 +/-5 °C	5% Max.	<1%						

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.



Sales Offices:

