



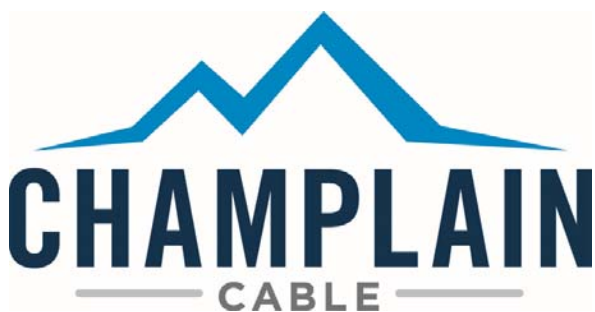
150A MIL-Plus “16” EXRAD 3000 Volt Battery/Power Cables

EXRAD 150A MIL-Plus is a high performance power/battery cable designed specifically for Military Vehicles and Equipment. It meets MIL-DTL 16878/16, NEMA HP 5 “LX” and SAEJ1127 GXL requirements. As engine compartments grow smaller, operating temperatures become hotter and electronics proliferate under the hood, EXRAD 150A MIL-Plus power/battery cable fulfills these demands..

EXRAD 150A MIL-Plus power/battery cable has an irradiated cross-linked polyolefin insulation capable to withstand temperatures of 240°C and higher.

EXRAD 150A MIL-Plus can provide the solution to the complex demands of the current Military Vehicle and Equipment environments. The end result is a military power/battery cable wire ideally suited for applications where a combination of flexibility, long-life and performance is required.

Part Number	Standard Conductors [T.C.]	Conductor Dia. (Nom.)		Nominal Ins. Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
150APL-16BMG	10 (37/27)	.111	2.82	.032	.81	.174	4.42	39.8	80
150APL-16BNM	8 (168/30)	.169	4.29	.037	.94	.242	6.14	65.4	106
150APL-16BPL	6 (133/27)	.210	5.33	.038	.97	.286	7.26	100.7	155
150APL-16BRL	4 (133/25)	.268	6.81	.041	1.04	.349	8.86	155.3	190
150APL-16BSP	2 (665/30)	.342	8.69	.039	.99	.419	10.64	243.1	255
150APL-16BTN	1 (259/25)	.378	9.60	.047	1.19	.471	11.18	301.2	293
150APL-16BUS	1/0 (1045/30)	.431	10.95	.045	1.14	.521	13.23	370.2	339
150APL-16BWT	2/0 (1330/30)	.475	12.07	.053	1.35	.580	14.73	472.1	390
150APL-16BYV	3/0 (1672/30)	.535	13.59	.064	1.63	.662	16.81	599.2	451
150APL-16BZW	4/0 (2109/30)	.600	15.24	.096	2.44	.795	20.19	791.6	529

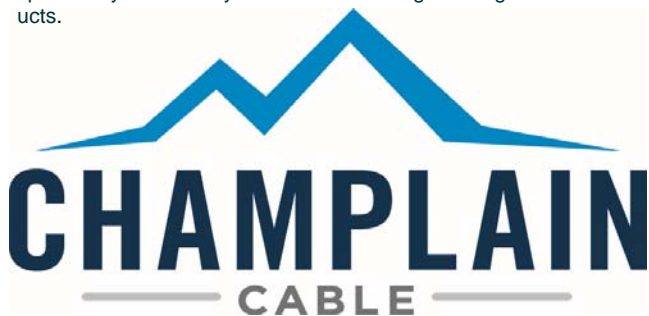




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EXRAD 150 A MIL-Plus “16”				
Property / Attribute			SAE J-1127 Req.	6 AWG Typ. Performance
Flex Life				
Flex Test	Per Modified ISO 14572		NA	NA
Dielectric Strength				
Dielectric Test	Wet Dielectric after 5 hour soak		1 kV 1 min.	5 kV 30 min.
Flame Resistance				
Flame Test	Maximum time after burn		70 Sec	1 sec
Thermal Performance				
Cold Bend	4 hours at temperature no cracks / break-down		-40°C	-65°C
Temperature Rating	240 Hours heat aging		155°C	180°C
Temperature Rating	3000 Hours		125°C	150°C
Mechanical Properties				
Tensile	Minimum psi		1500	2350
Elongation	Minimum %		150	300
Abrasion	Sand Paper Resistance Length in.		NA	18
Abrasion	Scrape Cycles		NA	NA
Pinch	Pounds		NA	NA
Ozone Resistance				
Ozone Test	192 Hours @ 650C 100 pphm no cracks		Pass	Pass
Fluids				
Engine Oil	ASTM D471, IRM-902	50 +/--3 °C	15% Max.	1.80%
Gasoline	ASTM D471 Ref. Fuel C	23 +/--5 °C	15% Max.	<1%
Brake Fluid	SAE-J-1703	50 +/--5 °C	None	<1.5%
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.	1.30%
Power Steering	ASTM D471, IRM-903	50 +/--3 °C	30% Max.	1.50%
Auto Transmission	Citgo #33123 SAE-J311	50 +/--3 °C	25% Max.	<1%
Methanol			25% Max.	<1%
Engine Coolant	50% Ethylene Glyco + 50% distilled Water	50 +/--3 °C	15% Max.	<1%
Battery Acid	H2S04 Specific Gravity = 1.260 +/- .005	23 +/--5 °C	5% Max.	<1.4%

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.



Manufacturing Locations

Colchester, Vermont

El Paso, Texas