



150A MIL-Plus “15” EXRAD 1000 Volt Multi-Purpose Cables

EXRAD 150A MIL Plus is specifically designed to address Commercial, Military Vehicle & Equipment. This product meets MIL-DTL 16878/14, NEMA HP 5 “L” and SAE J1678 “W” requirements. It is a high performance wire built to handle the increasingly adverse environments. 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.

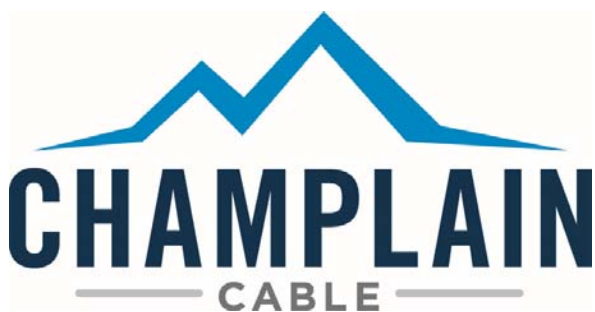
EXRAD 150A MIL Plus is rated at 150°C, but it survives temperatures to 240°C and higher. It is safer in overload conditions because it will not melt.

EXRAD 150A MIL Plus creates opportunities to eliminate unnecessary and expensive convolute tubing, tapes and heat shields that protect inferior wire systems.

EXRAD 150A MIL Plus has a life expectancy over 10,000 hours @ 125°C.

EXRAD 150A MIL Plus processes very well on automated high speed cut and strip equipment. The end result being a Military Application wire ideally suited to applications where heat protection, long life and less expensive wiring harnesses are required.

Part Number	Standard Conductors [T.C.]	Conductor Dia. (Nom.)		Nom. Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
150APL-15BDB	26 (7/34)	.019	.48	.017	.43	.052	1.32	1.96	3
150APL-15BEB	24 (7/32)	.024	.61	.017	.43	.057	1.45	2.62	7
150APL-15BFB	22 (7/30)	.030	.76	.017	.43	.063	1.60	3.50	11
150APL-15BGB	20 (7/28)	.038	.97	.017	.43	.071	1.80	4.99	15
150APL-15BHE	18 (19/0092)	.045	1.14	.017	.43	.079	2.01	6.82	21
150APL-15BJE	16 (19/0117)	.058	1.47	.017	.43	.092	2.34	10.43	28
150APL-15BKE	14 (19/0147)	.072	1.83	.017	.43	.106	2.69	15.57	42
150APL-15BLJ	12 (65/30)	.093	2.36	.017	.43	.127	3.26	23.71	55

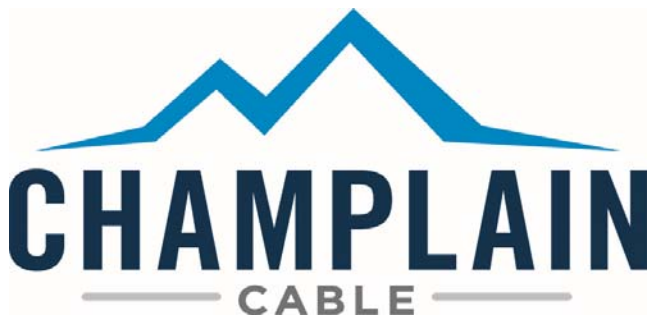




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EXRAD 150 A Mil-Plus “15”				
Property / Attribute			SAE J-1128 TXL Req.	18 AWG Typ. Performance
Flex Life				
Flex Test	Per Modified ISO14572		NA	NA
Dielectric Strength				
Dielectric Test	Wet Dielectric after 5 hour soak		1kV1 min.	5kV30 min.
Flame Resistance				
Flame Test	Maximum time after burn		70Sec	1sec
Thermal Performance				
Cold Bend	4 hours at temperature no cracks / breakdown		-40°C	-65°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 100pphm no cracks		Pass	Pass
Fluids				
Engine Oil	ASTMD471, IRM-902	50 +/-3°C	15% Max.	1.8%
Gasoline	ASTMD471 Ref. Fuel C	23 +/-5°C	15% Max.	<1%
Brake Fluid	SAE-J-1703	50 +/-5°C	None	<1.5%
Ethanol	85% Ethanol + 15% ASTMD471, Ref. Fuel C	23 +/-5°C	15% Max.	<1%
Diesel Fuel	ASTMD471, 90% IRM-903 + 10% p-xylene	23 +/-5°C	None	1.3%
Power Steering	ASTMD471, IRM-903	50 +/-3°C	30% Max.	1.5%
Auto Transmission	Citgo #33123 SAE-J311	50 +/-3°C	25% Max.	<1%
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.	<1.4%

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

www.champcable.com