

EXAR[®] 150-PV

UL 3829 CSA AWM

150°C Dry / 90°C Wet - 600 Volts

Champlain Cable announces **Exar® 150-PV, Class H**, 600 volt, irradiated cross-linked wire. Exar 150-PV is a **lower cost**, thin and flexible insulated hookup wire. Exar 150-PV can cost effectively **replace** wire with **FEP**, **Tefzel** and **TFE** or **Rubber** insulations. Irradiation cross-linking assures this insulation will not melt or flow at soldering temperatures or during repeated exposure to direct sunlight on hot surfaces. It has excellent mechanical strength, cut through resistance, chemical / solvent resistance and sunlight resistance. Unlike TFE or FEP, Exar 150 is easy to print.

Benefits and Features

Lower Cost Effective Replacement of Fluoropolymer and Rubber Insulation Flexible Class H Rating, Suitable for Class N Systems Superior Processing Outstanding Chemical and Solvent Resistance Excellent Sunlight (UV) Resistance Easy to Print and Pot

Applications

Including but not limited to:					
Motors	Lighting Devices				
Appliances	Electronic Devices				
Heaters	Thermal Sensors				
Thermal Protectors	Medical Electronics				
Transformers	Generators				
Photovoltaic Equipment					



Champlain Cable Corporation

Part Number	Standard Conductors	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Finished Weight	Ampacity
	Tinned Copper	in.	mm.	in.	mm.	in.	mm.	(lbs/mft)	
150-28/XX-B0	28 (7/36)	.015	.38	.016	.41	.049	1.25	1.40	1
150-26/XX-B0	26 (7/34)	.019	.48	.016	.41	.051	1.30	1.80	4
180-26/XX-E0	26 (19/38)	.020	.51	.016	.41	.053	1.35	1.87	4
150-24/XX-B0	24 (7/32)	.024	.61	.016	.41	.056	1.42	2.43	8
180-24/XX-E0	24 (19/36)	.024	.61	.016	.41	.057	1.45	2.48	8
150-22/XX-B0	22 (7/30)	.030	.76	.016	.41	.062	1.58	3.40	15
150-22/XX-E0	22 (19/34)	.031	.79	.016	.41	.063	1.60	3.51	15
150-20/XX-B0	20 (7/28)	.038	.97	.016	.41	.070	1.78	4.89	19
150-20/XX-E0	20 (19/32)	.038	.97	.016	.41	.071	1.80	5.10	19
150-18/XX-B0	18 (7/.0152)	.045	1.14	.016	.41	.077	1.96	6.55	26
150-18/XX-D0	18 (19/.0092)	.045	1.14	.016	.41	.077	1.96	6.45	26
150-16/XX-F0	16 (19/.0117)	.058	1.47	.016	.41	.092	2.34	9.99	33
150-14/XX-H0	14 (41/30)	.071	1.85	.016	.41	.107	2.72	15.07	50
150-12/XX-J0	12 (65/30)	.089	2.26	.016	.41	.121	3.07	23.08	64
150-10/XX-J0	10 (65/28)	.111	2.81	.017	.43	.145	3.68	34.25	85
150-08/XX-X0	8 (84/27)	.147	3.73	.024	.61	.195	4.95	64.15	115
150-06/XX-X0	6 (84/25)	.183	4.65	.024	.61	.231	5.87	97.46	160
150-04/XX-L0	4 (133/25)	.263	6.68	.024	.61	.311	7.90	150.00	205
150-02/XX-M0	2 (259/26)	.323	8.20	.024	.61	.371	9.42	231.00	274
150-01/XX-M0	1 (259/25)	.372	9.44	.030	.76	.432	10.97	295.00	319
150-/1/XX-M0	1/0 (259/24)	.424	10.77	.030	.76	.484	12.29	368.00	369
150-/2/XX-M0	2/0 (259/23)	.456	11.81	.030	.76	.515	13.08	458.00	429
150-/3/XX-M0	3/0 (259/22)	.520	13.21	.030	.76	.581	14.78	577.00	498
150-/4/XX-M0	4/0 (259/21)	.586	14.88	.030	.76	.646	16.41	720.00	579

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Inventing the Future of Wire and Cable

PROPERTIES	EXAR [®] 150-PV		
Approvals / Listings:			
UL		UL 3829	
CSA		AWM 150°C 600V	
Physical: *			
Temperature Rating		150 °C Dry / 90°C Wet	
Voltage Rating (Vrms)		600V	
Flexibility - 7 days @ 213 °C		Pass	
Cold Bend - 4h @ -40°C		Pass	
Sand paper Abrasion (SAE J-1128) 350 mm		1400 mm	
Scrape Abrasion (ISO 6722, 0.45 mm cord)		818 cycle	
Tensile Strength: *		,	
Unaged		6073 PSI	
Retention after 7 days @ 213 °C		85%	
Elongation: *			
Unaged		410%	
Retention after 7 days @ 213 °C		110%	
Flame Test: *			
UL Vertical – VW-1		Pass	
Chemical Resistance			
Acetone	swell@23°C**	0%	
Acid - H2SO4 S.G. 1.260 5%	swell@23°C**	0%	
Engine Oil – ASTM D-471 IRM-902	swell@115°C**	0%	
Benzene	swell@23°C/24h	0%	
Ероху	swell@23°C/24h	<1%	
Gasoline – ASTM D-471 Fuel C	swell@23°C**	0%	
Methanol	swell@23°C/24h	0%	
Toluene	swell@23°C/24h	0%	
Transmission oil	swell@150°C/720h	<2%	
Xylene	swell@23°C/24h	<1%	
Electrical: *			
Dielectric Constant D150/100MHz		3.5	
Dielectric breakdown strength (Vrms)		19,000	
Oxygen Index: (D2868 Standard)		42	
Sunlight Resistance	Sec 1200, UL1581	>=80% Retention	
* Properties are tested to UL 758 and UL 1581.			

** Percent swell SAE J-1128 TXL

Test data based on 18 AWG sample

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.

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