

150 UL 3271 / 3289

UL 3271/3289, CSA, 150°C, 600VAC / 750VDC

- The <u>Original</u> EXAR® Irradiation Cross-Linked Polyolefin
- AWM, CL 1251 1503
- Won't Melt, Creep or Flow
- Excellent Oil and Chemical Resistance

- Best-In-Class Varnish Resistance
- Excellent Flame Resistance
- Thin OD, Yet Tougher than Other Motor Leads
- Accept NO Substitute!





















	Nom. Conductor	Nom. Insulation	Nom. Finished	Nom. Finished	
Conductor	Diameter	Thickness	Diameter	Weight	Ampacity
Tinned Copper	in. mm.	in. mm.	in. mm.	(lbs/mft)	(40°C Free Air)
22 (7/30)	.031 .79	.030 .76	.095 2.41	5.81	14
20 (7/28)	.038 .97	.030 .76	.103 2.61	7.85	18
18 (19/.0092")	.045 1.14	.030 .76	.106 2.69	9.62	25
18 16/30)	.045 1.14	.030 .76	.105 2.67	9.52	25
16 (26/30)	.058 1.47	.030 .76	.122 3.09	13.3	31
14 (41/30)	.073 1.85	.030 .76	.136 3.45	19.0	46
12 (65/30)	.093 2.36	.030 .76	.150 3.81	27.1	60
10 (65/28)	.111 2.82	.030 .76	.172 4.37	40.5	80
8 (84/27)	.147 3.73	.045 1.14	.238 6.04	69.2	106
6 (84/25)	.183 4.65	.060 1.52	.305 7.75	111.5	155
4 (133/25)	.263 6.68	.060 1.52	.385 9.78	170.9	190
2 (361/.0135)	.330 8.38	.060 1.52	.450 11.43	254.5	255
1 (361/.0152)	.375 9.52	.080 2.03	.535 13.59	335.2	293
1/0 (361/.0170)	.420 10.67	.080 2.03	.580 14.73	421.0	339
2/0 (361/.0191)	.470 11.94	.080 2.03	.630 16.00	507.2	390
3/0 (361/.0214)	.525 13.33	.080 2.03	.685 17.40	627.2	451
4/0 (361/.0241)	.590 14.99	.080 2.03	.750 19.05	776.8	529
260 MCM (646/24)	642 16.31	N95 2.41	832 21.12	932 በ	585







150 UL 3271 / 3289

PROPERTIES	EXAR® 150	
Approvals / Listings:		
UL		STYLE 3271 / 3289
CSA		AWM 150°C 600V
		014054014500
DI LI		CL1251 CL1503
Physical:		450.90
Temperature Rating		150°C
Voltage Rating (Vrms)		600VAC / 750VDC
Flexibility - 7 days @ 180 °C		Passes
Cold Bend - 4h @ -65°C	100 4 0 6 4 0 0	Passes
Room Temperature UL Abrasion	ISO 19642-3	3817 cycles (16 AWG)
Shore "A" Hardness		95
Shore "D" Hardness		42
Bend Radius		3 X overall diameter
Tensile Strength:		
Unaged		2000 PSI
Retention after 7 days @ 180 °C	Passes (100%)	
Elongation:		
Unaged		250%
Retention after 7 days @ 180 °C	95%	
Flame Test:		
UL VW-1		Passes
IEEE Std. 383-1974	Passes	
Chemical Resistance		
Acetone	Swell @ 23°C/24h	5-10%
Acid - H2SO4 S.G. 1.260 5%	Swell @ 23°C**	<1%
Engine Oil - ASTM D-471 IRM-902	Swell @ 50°C**	1.80%
Benzene	Swell @ 23°C/24h	Not recommended
Ероху	Swell @ 23°C/24h	<5%
Gasoline - ASTM D-471 Fuel C	Swell @ 23°C**	<1%
Methanol	Swell @ 23°C**	<1%
Toluene	Swell @ 23°C/24h	Not recommended
Xylene	Swell @ 23°C/24h	Not recommended
Electrical:		
Dielectric Constant		3.1
Dielectric breakdown strength (Vrms)	21,000	
Oxygen Index:	24	
Gamma Radiation Resistance - Total:		
Integral dose (Cobalt 60 @ a rate of less than 1 megarad/hr.)	200 megarads	

We cannot anticipate all conditions under which this information and our 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