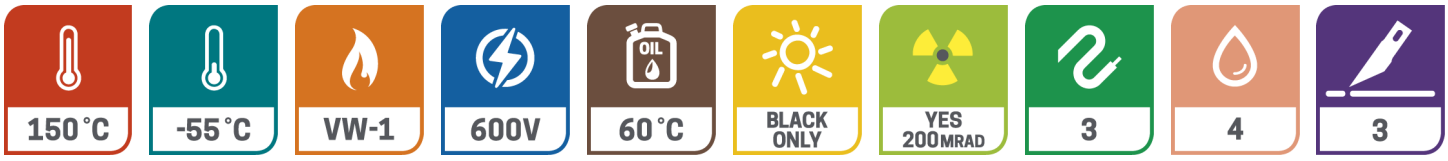
150
UL 3271 / 3289

UL 3271/3289, CSA, 150°C, 600V

- The *Original* 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 !



Conductor Tinned Copper	Nom. Conductor Diameter in.	mm.	Nom. Insulation Thickness in.	mm.	Nom. Finished Diameter in.	mm.	Nom. Finished Weight (lbs/mft)	Ampacity (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 (259/26)	.323	8.20	.060	1.52	.445	11.30	254.5	255
1 (259/25)	.372	9.44	.080	2.03	.530	13.46	335.2	293
1/0 (259/24)	.424	10.77	.080	2.03	.588	14.99	421.0	339
2/0 (259/23)	.465	11.81	.080	2.03	.629	15.98	507.2	390
3/0 (259/22)	.520	13.21	.080	2.03	.684	17.37	627.2	451
4/0 (259/21)	.586	14.80	.080	2.03	.750	19.05	776.8	529
260 MCM (646/24)	.642	16.31	.095	2.41	.832	21.12	932.0	585

CHAMPLAIN CABLE

150
UL 3271 / 3289

PROPERTIES		EXAR® 150
Approvals / Listings:		
UL		STYLE 3271 / 3289
CSA		AWM 150°C 600V CL1251 CL1503
Physical:		
Temperature Rating		150 °C
Voltage Rating (Vrms)		600V
Flexibility - 7 days @ 180 °C		Passes
Cold Bend - 4h @ -65°C		Passes
Room Temperature UL Abrasion		2400 cycles
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 – H2S04 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
Epoxy	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

Manufacturing Locations
Colchester, Vermont
El Paso, Texas
www.champcable.com