



# 155 ZH

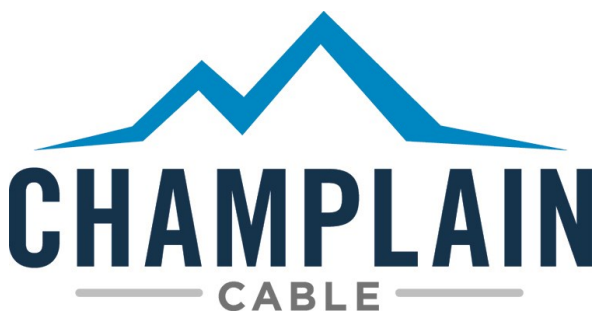
## 3271 3289

### 150°C 600V ROHS Compliant

EXAR® 155 ZH is a Halogen Free 150°C UL rated lead wire. EXAR 155 ZH is an irradiated cross-linked polymeric insulation with UL 150°C and 600 volts. This Halogen free lead is perfect for use in countries or applications which require halogen free rated wire. EXAR 155 ZH wire possesses excellent mechanical and electrical properties. EXAR is known for its unparalleled thermal stability, toughness and abrasion resistance. It is compatible with all magnet wire and most varnishes. Irradiation cross-linking assures this insulation will not melt or flow at soldering temperatures. EXAR 155 ZH processes very well on automated high speed cut and strip equipment.



Product Number	Standard Conductors Tin Copper	Nom. ID		Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
3289-ZH-22-E0	22 (19/34)	.031	.79	.030	.76	.095	2.41	5.81	14
3289-ZH-20-E0	20 (19/32)	.038	.97	.030	.76	.103	2.61	7.57	18
3289-ZH-18-B0	18 (7/.0152)	.045	1.14	.030	.76	.105	2.67	9.00	24
3289-ZH-18-E0	18 (19/.0092)	.045	1.14	.030	.76	.105	2.67	9.00	24
3289-ZH-16-F0	16 (26/30)	.058	1.47	.030	.76	.122	3.09	11.90	31
3289-ZH-14-H0	14 (41/30)	.073	1.85	.030	.76	.136	3.45	19.00	46
3289-ZH-12-J0	12 (65/30)	.093	2.36	.030	.76	.150	3.81	27.10	60
3289-ZH-10-J0	10 (65/28)	.111	2.82	.030	.76	.172	4.37	40.5	80
3289-ZH-08-X0	8 (84/27)	.147	3.73	.045	1.14	.238	6.04	69.20	106
3289-ZH-06-X0	6 (84/25)	.183	4.65	.060	1.52	.305	7.75	111.5	155
3289-ZH-04-L0	4 (133/25)	.263	6.68	.060	1.52	.385	9.78	163.9	190
3289-ZH-02-M0	2 (259/26)	.323	8.20	.060	1.52	.445	11.30	240.4	232
3289-ZH-01-M0	1 (259/25)	.372	9.44	.080	2.03	.530	13.46	315.3	293
3289-ZH/1-M0	1/0 (259/24)	.424	10.77	.080	2.03	.588	14.99	421.2	339
3289-ZH/2-M0	2/0 (259/23)	.465	11.81	.080	2.03	.629	15.98	507.2	390
3289-ZH/3-M0	3/0 (259/22)	.520	13.21	.080	2.03	.684	17.37	627.9	451
3289-ZH/4-M0	4/0 (259/21)	.586	14.80	.080	2.03	.750	19.05	776.8	529
3289-ZH250-00	250 MCM (427/.0242)	.653	16.58	.095	2.41	.843	21.41	931	585
3289-ZH300-00	300 MCM (427/.0265)	.716	18.19	.095	2.41	.906	23.01	1100	654
3289-ZH350-00	350 MCM (427/.0286)	.772	19.74	.095	2.41	.962	24.43	1268	724



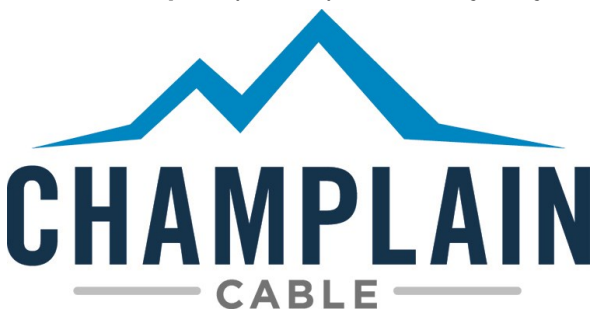


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PROPERTIES	EXAR 155ZH
<b>Physical: *</b>	
Temperature Rating	150 °C
Voltage Rating (Vrms)	600 V AC
Flexibility - 7 days @ 180 °C	Passes
Cold Bend - 4h @ -65°C	Passes
Room Temperature UL Abrasion	1500 cycles
Shore "A" Hardness	83
Shore "D" Hardness	33
Bend Radius	3 X overall diameter 0.25mm <sup>2</sup> - 35mm <sup>2</sup> 4 X overall diameter 35mm <sup>2</sup> - 95mm <sup>2</sup>
<b>Tensile Strength: *</b>	
Unaged	2,150 PSI
Retention after 7 days @ 180 °C	>80%
<b>Elongation: *</b>	
Unaged	300%
Retention after 7 days @ 180 °C	>80%
<b>Flame Test: *</b>	
UL Horizontal	Passes 0.25mm <sup>2</sup> - 2.5mm <sup>2</sup>
UL VW-1	Passes 4.0mm <sup>2</sup> - 95mm <sup>2</sup>
IEEE Std. 383-1974	Passes 4.0mm <sup>2</sup> - 95mm <sup>2</sup>
<b>Chemical Resistance</b>	
Acetone	swell@23°C/24h Not recommended
Acid - H2SO4 S.G. 1.260 5%	swell@23°C** <5%
Engine Oil - ASTM D-471 IRM-902	swell@50°C** <5%
Benzene	swell@23°C/24h Not recommended
Epoxy	swell@23°C/24h <5%
Gasoline - ASTM D-471 Fuel C	swell@23°C** <5%
Methanol	swell@23°C** <5%
Toluene	swell@23°C/24h Not recommended
Xylene	swell@23°C/24h Not recommended
<b>Electrical: *</b>	
Dielectric Constant	4.0
Dielectric breakdown strength (Vrms)	18,000
<b>Oxygen Index:</b>	31

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](http://www.champcable.com)