



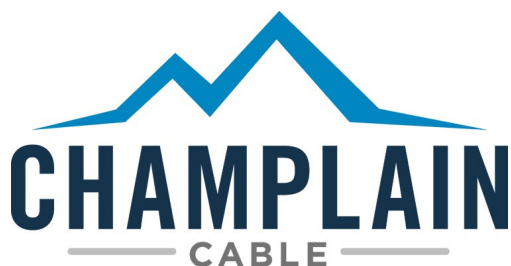
# 125 ZH

## UL 3271 AWM

- Low-Smoke, Halogen-Free (LSHF)
- UL / CSA 125°C, 600V
- Irradiation Crosslinked
- Won't Melt, Creep or Flow
- RoHS Compliant, Heavy Metal Free
- Excellent Oil and Chemical Resistance
- Mechanically Tough
- Cuts and strips consistently on the latest high-speed equipment



Product Number	Conductor Tin Copper	Nom. Conductor Diameter		Nom. Insulation Thickness		Nom. Finished Diameter		Nom. Finished Weight (lbs/mft)	Ampacity (40C, Free Air)
		in.	mm.	in.	mm.	in.	mm.		
3271-ZH-22-E0	22 (7/30)	.031	.79	.030	.76	.095	2.41	5.8	14
3271-ZH-20-E0	20 (19/32)	.038	.97	.030	.76	.103	2.61	7.5	16
3271-ZH-18-B0	18 (7/.0152)	.045	1.14	.030	.76	.105	2.67	9.0	24
3271-ZH-18-E0	18 (19/.0092)	.045	1.14	.030	.76	.105	2.67	9.0	24
3271-ZH-16-F0	16 (26/30)	.058	1.47	.030	.76	.122	3.09	12	31
3271-ZH-14-H0	14 (41/30)	.073	1.85	.030	.76	.136	3.45	19	42
3271-ZH-12-J0	12 (65/30)	.093	2.36	.030	.76	.150	3.81	27	55
3271-ZH-10-J0	10 (65/28)	.111	2.82	.030	.76	.172	4.37	40	72
3271ZH-08-X0	8 (84/27)	.147	3.73	.045	1.14	.238	6.04	69	97
3271-ZH-06-X0	6 (84/25)	.183	4.65	.060	1.52	.305	7.75	111	131
3271-ZH-04-L0	4 (133/25)	.263	6.68	.060	1.52	.385	9.78	164	172
3271-ZH-02-M0	2 (259/26)	.323	8.20	.060	1.52	.445	11.30	240	232
3271-ZH-01-M0	1 (259/25)	.372	9.44	.060	1.52	.492	12.50	315	266
3271-ZH-/1-M0	1/0 (275/24)	.392	9.96	.080	2.03	.552	14.02	415	309
3271-ZH/2-M0	2/0 (323/24)	.440	11.18	.080	2.03	.600	15.14	500	355
3271-ZH/3-M0	3/0 (450/24)	.545	13.84	.080	2.03	.705	17.90	620	410
3271-ZH/4-M0	4/0 (550/24)	.570	14.47	.080	2.03	.730	18.53	770	481





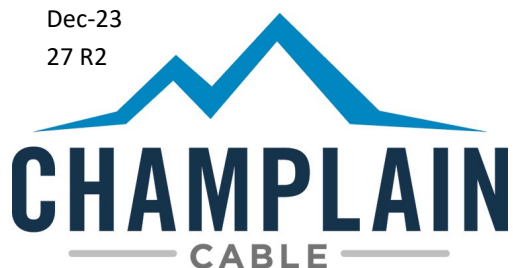
# 125 ZH

## UL 3271 AWM

PROPERTIES	EXAR® 125 ZH
<b>Approvals / Listings:</b>	
UL	UL STYLE 3271
CSA	AWM CL1251
<b>Physical Properties:</b>	
Temperature Rating (UL 3271)	125°C
Voltage Rating (Vrms)	600V
Scrape Abrasion Resistance	1,500 cycles
Shore "A" Hardness	83
Shore "D" Hardness	33
Cold Bend - 4h @ -40°C	Passes
Bend Radius	5 - 7 x Overall Diameter
<b>Tensile Strength:</b>	
Unaged	2,150 psi
Retention after 7 days @ 180°C	Pass (> 80%)
<b>Elongation:</b>	
Unaged	300%
Retention after 7 days @ 180°C	Pass (> 80%)
<b>Flame Test:</b>	
UL 758 and FT2 Horizontal Burn 22 - 10 AWG, VW-1 FT1 8 AWG—4/0	Passes
<b>Smoke Emission</b>	
Per MIL-DTL-24643/59 (Ref NES 711)	Pass
<b>Chemical Resistance</b>	
Acetone	Swell @ 23°C**
Acid - H2SO4 S.G. 1.260 5%	Swell @ 23°C**
Engine Oil - ASTM D-471 IRM-902	Swell @ 50°C**
Benzene	Swell @ 23°C/24h
Epoxy	Swell @ 23°C/24h
Gasoline - ASTM D-471 Fuel C	Swell @ 23°C**
Methanol	Swell @ 23°C/24h
Toluene	Swell @ 23°C/24h
Xylene	Swell @ 23°C/24h
Mineral Oil	Swell @ 23°C/24h
<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

Dec-23  
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### Manufacturing Locations:

Colchester, Vermont

El Paso, Texas

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