



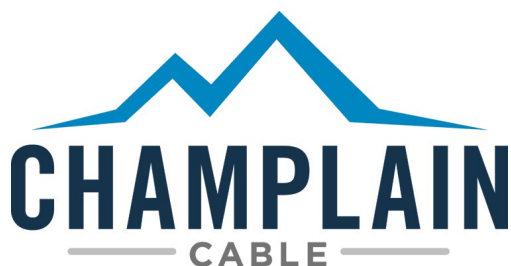
125 ZH

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)	.307	7.80	.060	1.52	.427	10.85	253	232
3271-ZH-01-M0	1 (259/25)	.357	9.07	.060	1.52	.477	12.12	308	266
3271-ZH-/1-M0	1/0 (259/24)	.408	10.36	.080	2.03	.568	14.43	407	309
3271-ZH/2-M0	2/0 (259/23)	.460	11.68	.080	2.03	.620	15.75	511	355
3271-ZH/3-M0	3/0 (259/22)	.504	12.80	.080	2.03	.664	16.87	630	410
3271-ZH/4-M0	4/0 (259/21)	.586	14.88	.080	2.03	.746	18.95	780	481





125 ZH

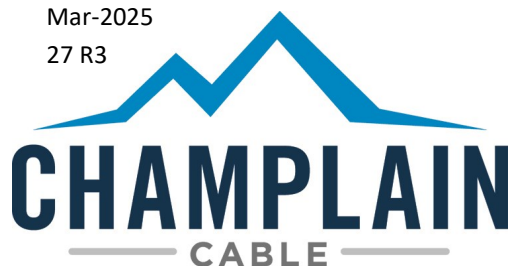
UL 3271 AWM

PROPERTIES	EXAR® 125 ZH	
Approvals / Listings:		
UL	UL STYLE 3271	
CSA	AWM CL1251	
Physical Properties:		
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	
Tensile Strength:		
Unaged	2,150 psi	
Retention after 7 days @ 180°C	Pass (> 80%)	
Elongation:		
Unaged	300%	
Retention after 7 days @ 180°C	Pass (> 80%)	
Flame Test:		
UL 758 and FT2 Horizontal Burn 22 - 10 AWG, VW-1 FT1 8 AWG—4/0	Passes	
Smoke Emission		
Per MIL-DTL-24643/59 (Ref NES 711)	Pass	
Chemical Resistance		
Acetone	Swell @ 23°C**	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/24h	<5%
Toluene	Swell @ 23°C/24h	Not Recommended
Xylene	Swell @ 23°C/24h	Not Recommended
Mineral Oil	Swell @ 23°C/24h	Not Recommended
Electrical:		
Dielectric Constant		4.0
Dielectric Breakdown Strength (Vrms)		18,000
Oxygen Index:		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

Mar-2025

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Manufacturing Locations:

Colchester, Vermont

El Paso, Texas

www.champcable.com