



INDUSTRIAL

Inventing *the Future* of Wire and Cable



Exar[®] 400 LOCA Class 1E UL 3271 125°C - 600V CSA AWM XHHW SIS

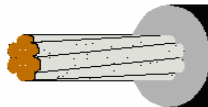
Exar[®] 400 is a LOCA qualified irradiation cross-linked polymeric insulation possessing remarkable mechanical and electrical properties along with excellent radiation, water, steam, temperature and flame resistance. Specially developed for meeting high safety standards for nuclear and fossil fuel power plants, Exar 400 processes extremely well on the latest high speed cut and strip machines. This product has unusually high chemical resistance including many potting compounds, toners and solvents. An excellent primary and jacket insulation for flexible control cables used in environmentally tough conditions. Save money by avoiding costly scrap, rework and untimely replacement.

Benefits and Features

LOCA qualified Class 1E
ICEA 40 years at 90°C and 200 megarads
Resistant to radiation exposure
Resistant to water and steam
IEEE 383 and VW-1 Flame Rating
Meets 10 CFR 50 Appendix B Quality Assurance for Nuclear Power Plants
UL/CSA AWM 125°C – 600V
UL XHHW, RHH, RHW, SIS Rated
RoHS Compliant

Applications

Including but not limited to:
Nuclear and Fossil Fuel Power Plants
Power and Control Cables
Switch Board Equipment
Office Equipment
Underground conduit or raceway
Wet Locations
Motors



Champlain Cable Corporation

Part Number	Standard Conductors Tin Copper	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
15-11750	22 (19/34)	.031	.79	.030	.76	.095	2.41	6.04	11
15-11749	20 (19/32)	.038	.97	.030	.76	.103	2.61	7.85	14
15-11733	18 (19/.0092)	.045	1.14	.030	.76	.105	2.67	9.52	20
15-11742	16 (26/30)	.058	1.47	.030	.76	.122	3.09	13.36	26
15-11745	14 (41/30)	.073	1.85	.030	.76	.136	3.45	18.04	42
15-11748	12 (65/30)	.093	2.36	.030	.76	.150	3.81	27.54	55
15-11746	10 (105/30)	.111	2.82	.030	.76	.172	4.37	40.82	72
15-11549	8 (133/29)	.147	3.73	.045	1.14	.238	6.04	70.49	97
15-11548	6 (133/27)	.183	4.65	.060	1.52	.305	7.75	114.28	131
15-11547	4 (133/25)	.263	6.68	.060	1.52	.385	9.78	171.90	172
15-11542	2 (259/26)	.323	8.20	.060	1.52	.445	11.30	256.49	232
15-11541	1 (259/25)	.372	9.44	.060	1.52	.492	12.50	316.20	266
15-11540	1/0 (259/24)	.424	10.77	.080	2.03	.588	14.99	413.00	309
15-11539	2/0 (259/23)	.465	11.81	.080	2.03	.629	15.98	533.00	355
15-11538	3/0 (259/22)	.520	13.21	.080	2.03	.684	17.37	629.00	410
15-11537	4/0 (259/21)	.586	14.80	.080	2.03	.750	19.05	775.00	481

*Ampacity 125°C rated single-insulated conductor in free air at 40°C ambient air temperature.

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PROPERTIES	EXAR® 400
Approvals / Listings:	
LOCA	Class 1E
UL	STYLE 3271
CSA	AWM 125°C 600V
Physical: *	
Temperature Rating	125°C
Voltage Rating (Vrms)	600V
Cold Bend - 4h @ -65°C	Passes
Shore "A" Hardness	89
Shore "D" Hardness	38
Room Temperature UL Abrasion (cycles)	5000
Bend Radius	3 X overall diameter
Tensile Strength: *	
Unaged	2000 PSI
Retention after 7 days @ 158 °C	90%
Retention after 90 days @ 136 °C	85%
Elongation: *	
Unaged	250%
Retention after 7 days @ 158 °C	90%
Retention after 90 days @ 136 °C	70%
Water Absorption	
ICEA-S-66-524	Passes
Flame Test: *	
IPCEA S-19-81	Passes
UL VW-1	Passes
IEEE Std. 383-1974	Passes
Electrical: *	
Dielectric Constant	2.72
Dielectric breakdown strength (Vrms)	23,000
Oxygen Index:	28
Gamma Radiation Resistance – Total:	
Integral dose (Cobalt 60 @ a rate of less than 1 megarad/hr.)	200 megarads
Ultraviolet Light Resistance:	
Per ASTM G-23 Type H	5000 hrs.

* Properties are tested to UL 758 and UL 1581.

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.

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