



Exar[®] 400
LOCA Class 1E
UL 3266 125°C - 300V CSA AWM

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 – 300V

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

Part Number	Standard Conductors Tinned Copper	Nom. Dia of Conductor		Insulation Thickness		Nom. OD		Finished Weight (lbs/mft)	Ampacity
		in.	mm.	in.	mm.	in.	mm.		
15-11738	22 (19/34)	.031	.79	.016	.41	.063	1.60	3.62	9
15-11735	20 (19/32)	.038	.97	.016	.41	.071	1.80	5.21	12
15-11739	18 (19/.0092)	.045	1.14	.016	.41	.077	1.96	6.82	18
15-11731	16 (26/30)	.058	1.47	.016	.41	.092	2.34	10.43	24
15-11730	14 (41/30)	.073	1.85	.016	.41	.107	2.72	15.57	35
15-11741	14 (413/40)	.083	1.92	.016	.41	.115	2.92	15.81	35
15-11729	12 (65/30)	.093	2.36	.016	.41	.121	3.07	23.71	40
15-11710	10 (105/30)	.111	2.82	.016	.41	.145	3.68	37.50	55

* Ampacity 150°C rated single-insulated conductor in free air at 40°C ambient air temperature.

Call 800-451-5162 for more information, or email us at sales@champcable.com
 Champlain Cable Corporation
 175 Hercules Drive, Colchester, Vermont 05446

PROPERTIES	EXAR [®] 400
Approvals / Listings: LOCA UL CSA	Class 1E STYLE 3266 AWM 125°C 300V
Physical: * Temperature Rating Voltage Rating (Vrms) Cold Bend - 4h @ -65°C Shore "A" Hardness Shore "D" Hardness Room Temperature UL Abrasion (cycles) Bend Radius	125°C 300V Passes 89 38 5000 3 X overall diameter
Tensile Strength: * Unaged Retention after 7 days @ 158 °C Retention after 90 days @ 136 °C	2000 PSI 90% 85%
Elongation: * Unaged Retention after 7 days @ 158 °C Retention after 90 days @ 136 °C	250% 90% 70%
Water Absorption ICEA-S-66-524	Passes
Flame Test: * IPEA S-19-81 UL VW-1 IEEE Std. 383-1974	Passes Passes Passes
Electrical: * Dielectric Constant Dielectric breakdown strength (Vrms)	2.72 12,000
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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