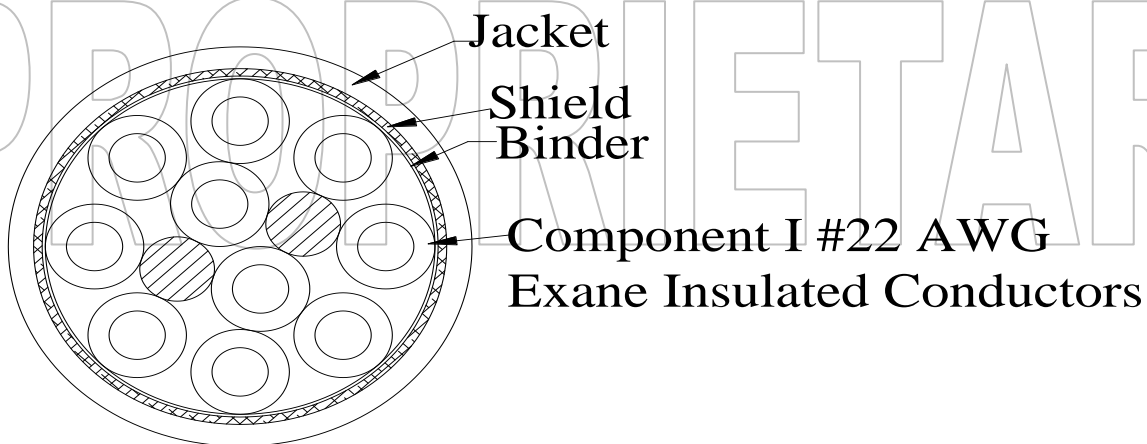


PRODUCT SPECIFICATION DRAWING

Proprietary Information not to be reproduced

Product Title:

10/C 22 AWG EXANE, BRAID SHIELD, XLPO (EXANE) JACKET, 600 V 110°C



CONSTRUCTION:

NOMINAL DIAMETER

			<u>(Inches)</u>	<u>(mm)</u>
1.0	COMPONENT 1:	10 REQUIRED		
1.1	Conductor:	22 AWG 19/34, Flexible Tinned Copper	0.030	0.762
1.2	Insulation:	Irradiation Cross-linked Polyolefin, Exane Nominal .030 inches wall thickness	0.092	2.336
1.3	Color Code:	Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black, Orange/Black, Yellow/Black		
2.0	CABLE:			
2.1	Core:	(10) Component 1 are twisted with a nominal 4.75 inch Left Hand Lay .	0.368	9.347
2.2	Binder:	Clear Mylar wrap, 50% overlap		
2.3	Shield:	36 AWG Tinned Copper Braid, 85% minimum coverage	0.393	9.982
3.0	JACKET:	Dark Gray, Irradiation Cross-linked Polyolefin, Exane Nominal .045 inches wall thickness Maximum Diameter	0.486 0.511	12.344 12.979
4.0	MARKING:	Jacket is ink printed as follows: "RSCC 10/C 22 AWG TD-010369 EXANE SHLD 600V 110°C EC10022-030 (Year of Mfg)"		
5.0	APPROX. WEIGHT PER 1000 FEET:	120 Lbs/ kft nominal		
6.0	BEND RADII:	Static (Permanent Training): 3.0" Dynamic (Pulling): 5.1"		
7.0	TEST REQUIREMENTS:	Singles tested in accordance with R-SCC DAA1068A		
8.0	ELECTRICAL:	Dielectric Withstand: 2,500 V RMS (Cond to Cond + Shield) And an Impulse Dielectric Test at 8 KV (Peak)		
9.0	FLAME:	Passes the flame test requirement of 49Code of Federal Regulations (CFR), Part 238 Appendix B, in accordance with NEMA WC 3/ICEA S-19-81, paragraph 6.19.6.		

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Product Title:

10/C 22 AWG EXANE, BRAID SHIELD, XLPO (EXANE) JACKET, 600 V 110°C

10.0 SMOKE:

Passes the smoke test requirement of 49Code of Federal Regulations (CFR), Part 238 Appendix B, in accordance with ASTM E662-97:

Flaming D_s (4.0 minutes) ≤ 200
Non-Flaming D_s (4.0 minutes) ≤ 75

11.0 TOXICITY:

Passes the toxicity requirements when tested in accordance with Boeing Specification Support Standard, BSS-7239, for both the flaming & Non-flaming modes, as detailed in the table below:

Chemical	Requirement (ppm), Max.
Carbon Dioxide	90000
Carbon Monoxide	3500
Hydrogen Fluoride	200
Hydrochloric Acid	500
Nitrous Fumes (NO & NO ₂)	100
Sulphur Dioxide	100
Hydrocyanic Acid	150

12.0 FLAME & SMOKE (NFPA 130-2010, 2014, 2017):

Passes the spread of fire and smoke emissions test requirements for low voltage wire and cable in accordance with NFPA 130-2010, 2014, 2017 Article 8.6.7.1.1 and 8.6.7.1.3 for transit vehicle application.

- Passes the 70,000 Btu/hr Vertical Cable Tray Flame Test, FT4/IEEE 1202 by having a flame travel distance that does not exceed 1.5 m (4 ft 11 in).
- The total smoke released is ≤ 150 m² (1615 ft²).
- The peak smoke release rate is ≤ 0.40 m²/s (4.3 ft²/s).



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EC10022-030

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Revision:
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Page:
2 of 2

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