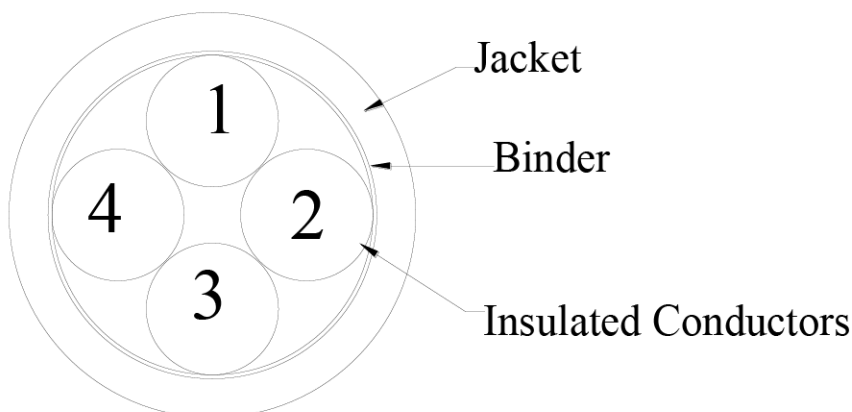


# PRODUCT SPECIFICATION DRAWING

*Proprietary Information not to be reproduced*

Product Title:

**4/C 20 AWG EXANE 15, UNSHIELDED, XLPO (EXANE) JACKET, 600 V 125°C**



**CONSTRUCTION:**

**NOMINAL DIAMETER**  
**(Inches) (mm)**

**1.0 COMPONENT 1: 4 REQUIRED**

**1.1 Conductor:** 20 AWG 19/32, Flexible Tinned Copper 0.038 0.965

**1.2 Insulation:** Dual Layer, Irradiation Cross-linked Polyolefin, Exane and Modified Fluoropolymer (Exane 15) 1.727  
Nominal .015 inches wall thickness 0.063

**1.3 Color Code:**

1. White	2. White/Black	3. White/Red	4. White/Blue
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**2.0 CABLE:**

**2.1 Core:** (4) Components are twisted with a nominal 2.5 inch (63 mm) Left Hand Lay. 0.165 4.191

**2.2 Binder:** Clear Mylar wrap, 50% overlap

**3.0 JACKET:**

Dark Gray, Irradiation Cross-linked Polyolefin, Exane 5.283  
Nominal .020 inches wall thickness 0.208  
Minimum Diameter 0.188 4.775  
Maximum Diameter 0.228 5.791

**4.0 MARKING:** Jacket is ink printed as follows:

RSCC 4/C 20 AWG EXANE-15 600V 125°C Date of Manufacture (MM/YY) & Shop Order Number

**5.0 APPROX. WEIGHT PER 1000 FEET:** 46 Lbs/ kft nominal

**6.0 BEND RADII:** Static (Permanent Training): 1.36"  
Dynamic (Pulling): 2.08"

**7.0 TEST REQUIREMENTS:** Singles tested in accordance with R-SCC DAC1168B

**7.1 ELECTRICAL:** Dielectric Withstand: 2,500 V-RMS (Cond to Cond + Shield)  
And an Impulse Dielectric Test at 8 KV (Peak)

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**8.0 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.

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

Flaming D<sub>s</sub> (4.0 minutes) ≤ 200

Non-Flaming D<sub>s</sub> (4.0 minutes) ≤ 75

**10.0 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 <sub>2</sub> )	100
Sulphur Dioxide	100
Hydrocyanic Acid	150

**11.0 FLAME & SMOKE (NFPA 130-2010):**

Passes the spread of fire and smoke emissions test requirements for low voltage wire and cable in accordance with NFPA 130-2010 Article 8.6.7.1.1 for transit vehicle application (UL 1685).

-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 m<sup>2</sup> (1615 ft<sup>2</sup>).

-The peak smoke release rate is ≤ 0.40 m<sup>2</sup>/s (4.3 ft<sup>2</sup>/s).