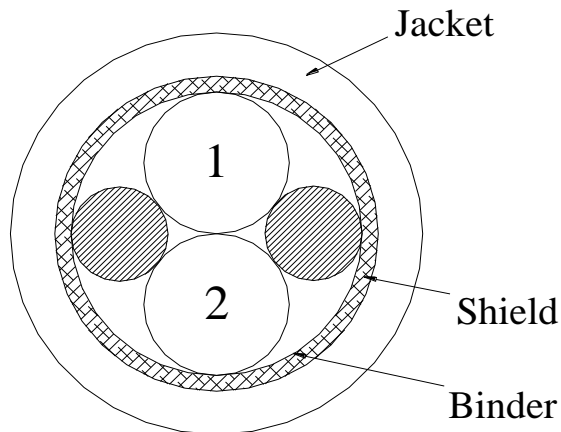


**PRODUCT SPECIFICATION DRAWING***Proprietary Information not to be reproduced***Product Title: 2/C 16 AWG, T.C. BRAID SHIELD, EXANE JACKET, 600 VOLT, 110°C****CONSTRUCTION:****NOMINAL DIAMETER**  
**(Inches)      (mm)****1.0 COMPONENT I : 2 REQUIRED**

- |                               |   |       |       |
|-------------------------------|---|-------|-------|
| <b><u>1.1 Conductor:</u></b>  | 16 AWG 19/29 Tinned Copper  | 0.054 | 1.372 |
| <b><u>1.2 Insulation:</u></b> | Irradiation Cross-Linked Polyolefin, Exane<br>Nominal .030" Thickness | 0.116 | 2.946 |
| <b><u>1.3 Color Code:</u></b> | Dk.Gray, White  |       |       |

**2.0 CABLE:**

- |                            |  |       |       |
|----------------------------|--|-------|-------|
| <b><u>2.1 Core:</u></b>    | (2) Conductors and fillers twisted with a nominal 3.00" LHL  |       |       |
| <b><u>2.2 Binder:</u></b>  | Polyester Tape wrap,   | 0.236 | 5.994 |
| <b><u>2.3 Fillers:</u></b> | Flame Retardant Polypropylene, as required                   |       |       |
| <b><u>2.4 Shield:</u></b>  | #36 AWG Tinned Copper Braided Shield<br>85% minimum coverage | 0.258 | 6.553 |

- |                           |  |                |                |
|---------------------------|--|----------------|----------------|
| <b><u>3.0 JACKET:</u></b> | Irradiation Cross-Linked Polyolefin, Exane<br>Nominal .045" Thickness<br>Maximum Diameter: | 0.353<br>0.365 | 8.966<br>9.271 |
|---------------------------|--|----------------|----------------|

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

"ROCKBESTOS-SURPRENANT TD2604 2C 16 AWG SHLD 600 V 110°C  
EXANE TX (YEAR OF MFG.)"

- |                                      |  |
|--------------------------------------|--|
| <b><u>5.0 TEST REQUIREMENTS:</u></b> | Singles tested in accordance with R-SCC DAA1068A<br>Dielectric Withstand: 2,500 V RMS (Cond to Cond + Shield)<br>Impulse Dielectric Test at 18 KV (Peak) on insulated conductors |
|--------------------------------------|--|

## PRODUCT SPECIFICATION DRAWING

*Proprietary Information not to be reproduced*

Product Title: **2/C 16 AWG, T.C. BRAID SHIELD, EXANE JACKET, 600 VOLT, 110°C**

**6.0 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.

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

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

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

### **8.0 MECHANICAL REQUIREMENTS:**

8.1 Nominal Weight: 74 lbs/ kft nominal

8.2 Bend Radii: This is based on the outside diameter of the cable, and refers to the inside radius of the bend.

Static (Permanent Training): 2.06 inches Minimum

Dynamic (Pulling): 3.50 inches Minimum

**9.0 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