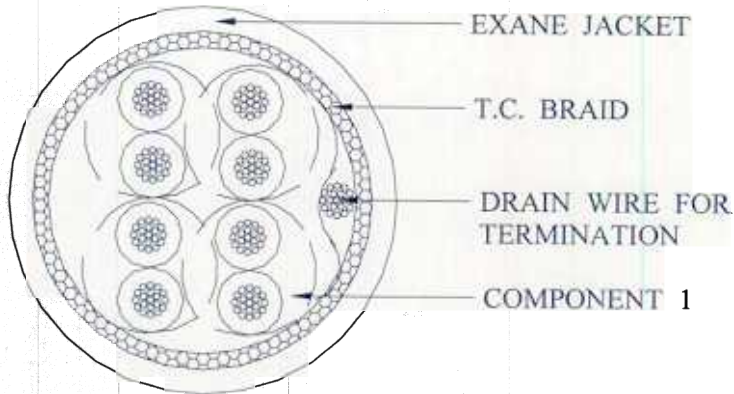


PRODUCT SPECIFICATION DRAWING

Proprietary Information not to be reproduced

Product Title: 4 PR 22 AWG EXANE-15, O/A T. C. BRAID + 22 AWG DRAIN WIRE, EXANE JACKET, 600V 125°C



CONSTRUCTION:

NOMINAL DIAMETER
(Inches) (mm)

| | | | | |
|------------|--------------------------------|--|-----------------------|-----------------------|
| 1.0 | <u>COMPONENT 1:</u> | <u>1 REQUIRED (4 PAIR 22 AWG)</u> | | |
| | 1.1 <u>Conductor:</u> | 22 AWG (19/#34) Tinned Copper | 0.030 | 0.762 |
| | 1.2 <u>Insulation:</u> | Dual Layer, Irradiation Cross-linked Polyolefin, Exane and Modified Fluoropolymer (Exane-15) Nominal .015 inches wall thickness | 0.061 | 1.549 |
| | 1.3 <u>Pair:</u> | Twist two Conductors with a Staggard Left Hand Lay from 2.0 to 2.75 inches to Minimize Cross-talk. | 0.122 | 3.099 |
| | 1.4 <u>Color Code:</u> | Gray & White Conductors with Printed Pair Nos. from #1 to #4 with a Maximum Spacing of 2 inches. | | |
| 2.0 | <u>CABLE:</u> | | | |
| | 2.1 <u>Cable:</u> | Twist four (4) Pairs with Filler(s) as necessary with a 4.50 inch, Nom. Left Hand Lay. | 0.250 | 6.350 |
| | 2.2 <u>Filler(s):</u> | FR-Fibrillated Polypropylene as necessary. | | |
| | 2.3 <u>Binder Tape:</u> | 1.0 Mil Polyester Tape, 50% Nom. Lap | | |
| 3.0 | <u>BRAID SHIELD:</u> | 38 AWG Tinned Copper, 85% Minimum Coverage with 22 AWG (19/#34) Drain Wire under Braid. | 0.287 | 7.290 |
| 4.0 | <u>JACKET:</u> | Dark Gray, Irradiation Cross-linked Polyolefin, Exane Nominal Wall Thickness .030 inches Maximum Diameter | 0.352 0.380 | 8.941 9.652 |
| 5.0 | <u>PRINT:</u> | Jacket will be Printed with Black ink as follows: | | |

“ROCKBESTOS SURPRENANT TD-005062 EXANE-15 4 PR 22 AWG SHLD 600V 125°C” “(YR)”

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EXANE JACKET, 600V 125°C

8.0 **FLAME:** Passes the flame test requirements of 49 Code of Federal Regulations (49CFR) 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 requirements of 49 Code of Federal Regulations (49CFR) 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

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) |
|---------------------------------------|-------------------|
| Carbon Dioxide | 90000 |
| Carbon Monoxide | 3500 |
| Hydrogen Fluoride | 200 |
| Hydrochloric Acid | 500 |
| Nitrous Fumes (NO & NO ₂) | 100 |
| Sulphur Dioxide | 100 |
| Hydrocyanic Acid | 150 |

11.0 **CHARACTERISTIC IMPEDANCE:** 90 Ohms ± 15% at 1.0 MHz for 22 AWG Twisted pairs.

