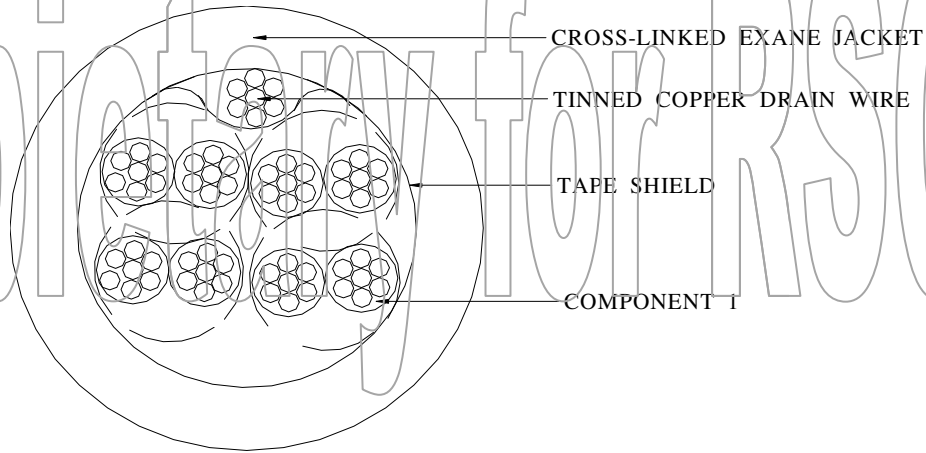


PRODUCT SPECIFICATION DRAWING

Proprietary Information not to be reproduced

Product Title: 4 PR 24 AWG (7/32) CAT 5 TYPE CABLE, TIA/EIA-568A, SHIELDED, LSZH JACKET, TRANSIT CABLE, ROHS AND REACH COMPLIANT



CONSTRUCTION:

1.0 COMPONENT 1: 4 REQUIRED

1.1 Conductor: 24 AWG 7/32 Bare Copper

1.2 Insulation: Solid, Colored FEP Teflon
Nominal Wall Thickness .007 inches

Max Insulation conductor size

1.3 Color Code: BN + BN/WH; OR + OR/WH; GN + GN/WH; BL + BL/WH;

1.4 Pair Construction: Twist 2 Insulated Conductors, Color Coded as above, with staggered Left Hand Lays to Minimize Crosstalk.

NOMINAL DIAMETER

(Inches)

(mm)

0.024 0.610

0.038 0.965

0.039 0.991

0.076 1.930

2.0 CABLE:

2.1 Core: (4) Component 1 are twisted together with a Left Hand Lay.

0.156 3.962

2.1 Binder: 1.0 Mil Polyester Tape, Nom. Overlap 25%

2.2 Drain Wire: 24 AWG (7/32) Tinned Copper Drain Wire

2.3 Shield: .0015" Aluminum/Polyester Shield Tape wrap, 25% Nom. Overlap.

0.164 4.166

3.0 JACKET:

Black, Low Smoke Zero Halogen (LSZH)
Nominal Wall Thickness .015 inches

0.194 4.928

Maximum Diameter:

0.205 5.207

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

**“RSCC TD-004855 4 PR 24 AWG 7/32 CAT 5 100 OHM STRANDED
COND SHIELD LSZH JACKET TIA/EIA 568A (Yr of Mfg) (Seq. Ftg.)”**

5.0 TECH DATA:

- 5.1 Input Impedance: 100 Ohms +/- 15% @ 1.0MHz to 100 MHz
- 5.2 Conductor Resistance: 28.7 Ohms/1,000 ft at 20°C, Max.
- 5.3 D-C Resistance Unbalance: 5%, Max.
- 5.4 Mutual Capacitance: 15 pF/ft, Nom.
- 5.5 Capacitance C – C: 28 pF/ft, Nom.
- 5.6 Capacitance Unbalance: 100.5 pF/100 ft, Max. Pair-To-Ground.
- 5.7 Propagation Delay: 166.1 ns/100 ft Max at 10.0 MHz
- 5.8 Nom Attenuation (Insertion Loss) & Near-End Crosstalk (NEXT):

<u>MHz</u>	<u>Attenuation dB/1000 ft</u>	<u>NEXT dB/1000ft</u>
4	14.9	53
10	23.8	47
16	29.9	44
31.25	42.7	39
100	80.5	32

6.0 SPECIFICATION: TIA/EIA 568A for Category 5 cables. Special features include stranded conductors to provide flexibility, overall shield, and an overall low smoke zero halogen Jacket to meet the requirements for transit application. The cable is **ROHS** and **REACH** compliant

7.0 FLAME: Passes the flame test requirements of 49CFR Part 238 Appendix B for low voltage wire and cable when tested in accordance with NEMA WC 3/ICEA S-19-81, paragraph 6.19.6 for transit application.

8.0 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.

- 8.1 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).
- 8.2 The total smoke released is ≤ 150 m² (1615 ft²).
- 8.3 The peak smoke release rate is ≤ 0.40 m²/s (4.3 ft²/s).



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Part No.: ED08024-001

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Reviewed By:
Walt Drabek

Date:
1/7/13

Revision: 7
ROHS & REA

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2 of 3

DWG Number:
TD-004855

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9.0 SMOKE: Passes the smoke requirements of 49CFR Part 238 Appendix B when tested in accordance with ASTM E-662-97 for transit application:

Flaming ----- $D_s(4.0) < 200$

Non-Flaming ----- $D_s(4.0) < 75$

10.0 TOXICITY: Passes Toxicity Test requirements when tested in accordance with Boeing Specification Support Standard (BSS) 7239:

<u>Chemical</u>	<u>Requirement</u>
Carbon Dioxide	90,000 ppm
Carbon Monoxide	3,500 ppm
Hydrogen Fluoride	200 ppm
Hydrochloric Acid	500 ppm
Nitrous Fumes (NO & NO ₂)	100 ppm
Sulphur Dioxide	100 ppm
Hydrocyanic Acid	150 ppm

Engineering Use only

Not for Distribution