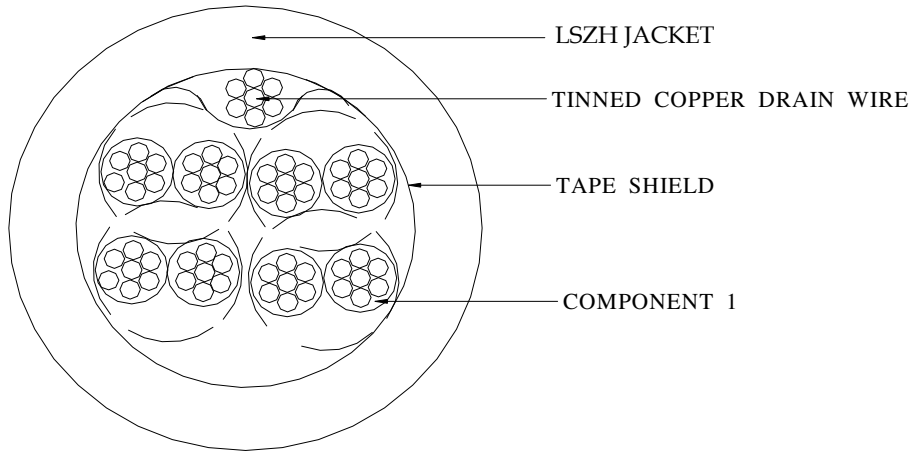


PRODUCT SPECIFICATION DRAWING

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:

NOMINAL DIAMETER
(Inches) (mm)

<u>1.0</u>	<u>COMPONENT 1:</u>	<u>4 REQUIRED</u>		
1.1	<u>Conductor:</u>	24 AWG 7/32 Bare Copper	0.024	0.610
1.2	<u>Insulation:</u>	Solid, Colored FEP Teflon Nominal Wall Thickness .007 inches	0.038	0.965
		Max Insulation conductor size	0.039	0.991
1.3	<u>Color Code:</u>	BN + BN/WH; OR + OR/WH; GN + GN/WH; BL + BL/WH;		
1.4	<u>Pair Construction:</u>	Twist 2 Insulated Conductors, Color Coded as above, with staggered Left Hand Lays to Minimize Crosstalk.	0.076	1.930
<u>2.0</u>	<u>CABLE:</u>			
2.1	<u>Core:</u>	(4) Component 1 are twisted together with a Left Hand Lay.	0.156	3.962
2.1	<u>Binder:</u>	1.0 Mil Polyester Tape, Nom. Overlap 25%		
2.2	<u>Drain Wire:</u>	24 AWG (7/32) Tinned Copper Drain Wire		
2.3	<u>Shield:</u>	.0015" Aluminum/Polyester Shield Tape wrap, 25% Nom. Overlap.	0.164	4.166
<u>3.0</u>	<u>JACKET:</u>	Black, Low Smoke Zero Halogen (LSZH) Nominal Wall Thickness .015 inches Maximum Diameter:	0.194 0.205	4.928 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

5.9	Operating temperature:	-40°C to 105°C
5.10	Weight:	20 lbs / 1000 ft

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 $\leq 150 \text{ m}^2$ (1615 ft²).
- 8.3 The peak smoke release rate is $\leq 0.40 \text{ m}^2/\text{s}$ (4.3 ft²/s).

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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