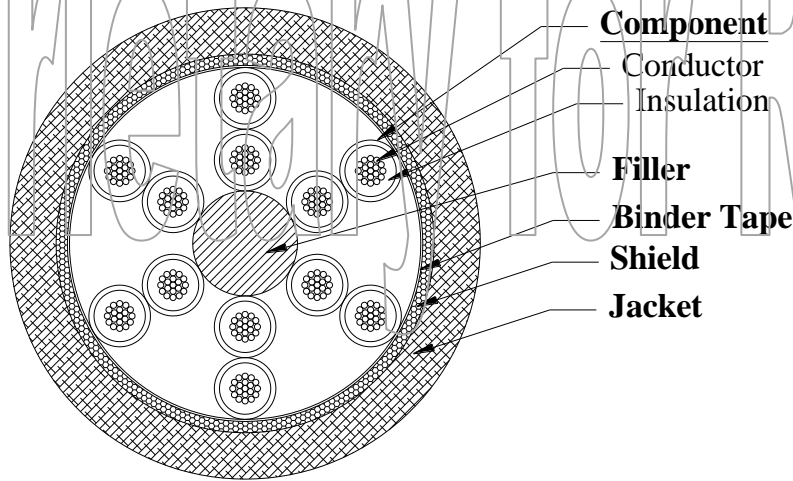


PRODUCT SPECIFICATION DRAWING

Proprietary Information not to be reproduced

Product Title:

6 TP 22 AWG EXANE 15 SHIELED, TC BRAID, EXANE JACKET, 600V, 125°C



CONSTRUCTION:

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

1.0 COMPONENT :		6 TWISTED PAIRS REQUIRED		(Inches)	(mm)
1.1	Conductor:	22 AWG 19/34 Tinned Copper		0.030	0.8
1.2	Insulation:	Dual Layer Irradiation Cross-Linked Exane and Modified Fluoropolymer (Exane-15) Nominal .015" thickness		0.060	1.5
1.3	Pair:	White and Black are twisted together (Staggered Pair Lays)		0.120	3.0
1.4	Color Code:	Pair 1: White/Black x White/Brown Pair 2: White/Red x White/Orange Pair 3: White/Green x Wht/Yellow Pair 4: White/Blue x Wht/Violet Pair 5: White/Gray x Wht/Black/Black Pair 6: White/Black/Brown x White/Black/Red			
2.0	CABLE:				
2.1	Core:	(6) pairs twisted with fillers, Left Hand Lay		0.342	8.7
2.2	Binder:	Clear Mylar wrap, 50% overlap		0.346	8.8
3.0	SHIELD:	36 AWG TC braid, 85% Min Coverage		0.368	9.3
4.0	JACKET:	Irradiation Cross-Linked Polyolefin (Exane)			

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6 TP 22 AWG EXANE 15 SHIELDED, TC BRAID, EXANE JACKET, 600V, 125°C

Proprietary for RSCC

Nominal .045" thickness
Color: Dk. Gray

MAXIMUM O.D.:

0.458 11.6
0.481 12.2

5.0 MARKING:

Jacket is ink printed in contrasting ink as follows:

" RSCC TD-008073 EXANE-15 6 PR 22 AWG SHLD 600V 125°C (Yr of Mfg) "

6.0 NOMINAL WEIGHT

115 lbs./ 1000 ft.

7.0 BEND RADII:

Static: 2.75" minimum
Dynamic: 4.81" minimum

8.0 TECH DATA:

8.1 Direct Current Resistance (DCR): 16.17 Ohms/1000 Ft Max @ 20°C each conductor

8.2 Insulation Resistance (IR): 3010 MΩ/1000 ft

8.3 Temperature Range -55°C to 125°C

8.4 Voltage Rating 600 V AC (1800V DC)

8.5 Current Rating (40°C in free air) 6.3A per RSCC TD-008361 Rev 0

8.6 Test Voltage/ Dielectric strength 2.5 kV AC - 5 Min

9.0 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.

10.0 SMOKE:

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

Flaming D_s (4.0 minutes) ≤ 200

Non-Flaming D_s (4.0 minutes) ≤ 75

Engineering Use only

Not for Distribution



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Revised By:
Gil Shoshani

Date:
9/11/17

Page:
2 of 3

EF12022-000

Reviewed By:
Walt Drabek

Revision:
2- Bend Radiu

DWG Number:
TD-008073

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Product Title:

6 TP 22 AWG EXANE 15 SHIELDED, TC BRAID, EXANE JACKET, 600V, 125°C

11.0 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

12.0 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.

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