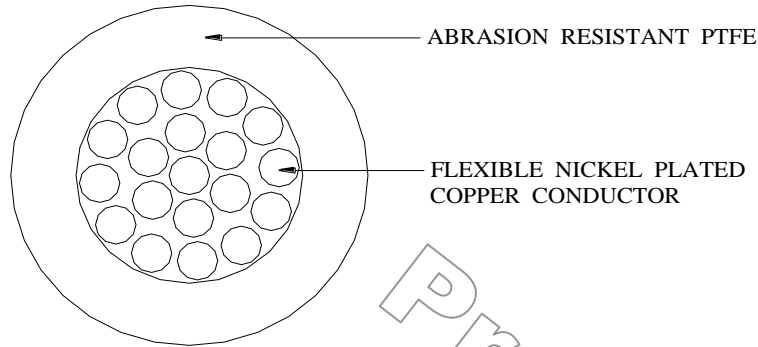


# PRODUCT SPECIFICATION DRAWING

*Proprietary Information not to be reproduced*

Product Title:

**1/C TYPE MIL-W-22759/6, ABRASION RESISTANT PTFE INSULATION, 1000 V, 260°C**



**CONSTRUCTION:**

- 1.0 CONDUCTOR:** Flexible Stranded Nickel Plated Copper Conductor in accordance with ASTM B355 and MIL-W-22759/6.
- 2.0 INSULATION:** Abrasion resistant, Extruded PTFE Fluoropolymer Nominal Wall Thickness in accordance with MIL-W-22759/6.
- 3.0 VOLTAGE RATING:** The conductors are insulated with abrasion resistant PTFE to the thicker wall thickness required by MIL-W-22759/6, but are tested to the 1000V requirements of MIL-W-22759/10. The insulated conductors are rated 1000V.
- 4.0 MARKING:** Insulated conductor is printed, as example, as follows:  
 "ROCKBESTOS-SURPRENANT M22759/6 TYPE #16 AWG (19/29) 260°C 1 KV RMS 2 KV DC (Yr of Mfg) "
- 5.0 TECH DATA:**
  - 5.1 Temperature Rating: 260°C (500°F) Max.
  - 5.2 Voltage Rating: 1000 V (RMS) (2000 VDC)
  - 5.3 Impulse Dielectric Test: 9.5 KV (peak)
  - 5.4 Insulation Resistance: 50,000 Megohms for 1,000 ft, Min.

RSCC Part No.	Color	AWG	Strand	Nom. Cond. Dia	Finished O.D.		Voltage Rating	Nom. Wt. Lb/1,000ft	Bend Radii	
					Nom.	Max.			Static	Dynamic
ARTS22N	White	22	19 x 34	0.039	0.085	0.090	1000V	6.8	0.340"	0.680"
TT01020-001 (ARTS20N)	White	20	19 x 32	0.039	0.095	0.100	1000V	9.0	0.380"	0.760"
ARTS18N	White	18	19 x 30	0.048	0.110	0.115	1000V	12.8	0.440"	0.880"
TT01016-000 (ARTS16N)	White	16	19 x 29	0.054	0.125	0.130	1000V	18.0	0.500"	1.000"
TT01014-001 (ARTS14N)	White	14	19 x 27	0.067	0.143	0.150	1000V	25.0	0.572"	1.144"
TT01012-000 (ARTS12N)	White	12	19 x 25	0.085	0.160	0.167	1000V	34.5	0.640"	1.280"

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RSCC Part No.	Color	AWG	Strand	Nom. Cond. Dia	Finished O.D.		Voltage Rating	Nom. Wt.	Bend Radii	
					Nom.	Max.			Lb/1,000ft	Static
TT01010-001 (ARTS10N)	White	10	37 x 26	0.107	0.179	0.186	1000V	48.0	0.716"	1.432"
TT01008-000 (ARTS8N)	Black	8	133x29	0.169	0.248	0.255	1000V	85.0	0.992"	1.984"
TT01008-001 (ARTS8N)	Blue	8	133x29	0.169	0.248	0.255	1000V	85.0	0.992"	1.984"
TT01006-001 (ARTS6N)	White	6	133x27	0.203	0.300	0.310	1000V	126.0	1.200"	2.400"

**5.0 FLAME:** Passes the flame test requirement of 49Code of Federal Regulations (49CFR), Part 238 Appendix B, in accordance with NEMA WC 3/ICEA S-19-81, paragraph 6.19.6.

**6.0 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<sub>s</sub> (4.0 minutes) ≤ 200  
Non-Flaming D<sub>s</sub> (4.0 minutes) ≤ 75

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

<u>Chemical</u>	<u>Requirement (Max.)</u>
Carbon Dioxide (CO <sub>2</sub> )	90,000 ppm
Carbon Monoxide (CO)	2,500 ppm
Hydrogen Fluoride (HF)	150 ppm
Hydrochloric Acid (HCL)	300 ppm
Nitrous Fumes (NO <sub>2</sub> )	100 ppm
Sulfur Dioxide (SO <sub>2</sub> )	100 ppm
Hydrocyanic Acid (HCN)	100 ppm