

# Marmon Aerospace & Defense, LLC

## NEW! INSULATION MATERIAL DEVELOPMENT

### Technological Development Leads to Creation of NXGN200 Wire

- Meets requirement for M22759 Aerospace Wire
- Available in all plating types
- Extruded truly seamless construction eliminates sealing issues
- No tape edges to tear, offering improved abrasion characteristics
- User friendly outer surface for marking.
- Contains LoFlo™ Technology
  - \* Improved shelf life– for silver, nickel, and tin plated products
  - \* Mitigates risk of corrosion of metal connectors and backshells
  - \* Reduces criticality of environmental storage conditions

### Performance Requirements

Abrasion Resistance: 30,000 cycles @ 25°C and 300 cycles @ 150°C

Accelerated Aging: Oven Temperature, 300°C for 7 hours

Blocking: 200°C

Cold Bend: -65°C

Cut Through: 110 lbs @ 25°C and 25 lbs @ 150°C

Dry Arc Propagation

Elongation: 100% min

Flammability: 30 Second (max) 3" (max); No flaming of tissue paper

Fluid Immersion: Per M22759

Humidity Resistance: 5000 Meg-ohms for 1000 ft. min

Identification Durability: 125 cycles min – 500 grams

Insulation Resistance: 5000 Meg-ohms for 1000 ft. min

Life Cycle: 500 hrs @ 230°C

Solderability: MIL-STD-202 Method 208 without steam aging

Shrinkage: .125" max @ 230°C

Smoke: 250°C

Spark Test: 5700 V rms

Surface Resistance: 500 Meg-ohms min

Tensile Strength: 5000 psi min

Thermal Shock: 200°C - .060" max change

Wet Arc Propagation

Wicking: 2.25" Max. Dye travel

Wrap Test: 313°C

**NXGN200™**

**Temperature Rating:**

**-65°C to + 200°C**

**Voltage Rating:**

**600 V rms**

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