

Marktek Inc.

Your One-Stop Shop for EMI-shielding, Conductive, Resistive, & Microwave-Absorptive Materials

Data Sheet for S211717XY Conductive Thread

Description: Thread made of two plies of 99% silver-plated nylon 66 117/17 (dtex) yarn with a filament twist of S600 tpm and a ply twist of Z550; total nominal dtex of $\sim 295 \pm 3\%$

Appearance: silvery gray

Approximate Diameter: ~ 175 μm (7 mils)

Linear Resistance: $< 7.5 \Omega/\text{in}$ ($< 3 \text{ ohm/cm}$)

Yield: 16,900 yd/lb (33,800 m/kg)

Breaking Strength: min. 675 g, max 725 g

Tenacity: 44 ± 5 cN/tex

Elongation at Break: $21 \pm 5\%$

Temperature Limits: up to 90°C (195°F) short term

Splice Frequency: 4 max/package(spool)

RoHS and REACH compliant

Packaging: 1 ± 0.1 lb. spools on paper or plastic, 230 mm, 3°-30 min cones and 100-m plastic hobby cones (Only the hobby cone thread comes with a lubricant.)

Applications: Conductive thread or wire for ESD, medical, and EMI knitted gasket applications, and for smart textiles. Silver is a broad spectrum biocide, so the product can be used wherever antimicrobial properties are desired.

The information provided here is for illustrative purposes only and should not be considered a product specification. All statements and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. As always, it is up to the user of this product to make the final determination as to whether the said product is suitable for the user's intended application.

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