

**Data Sheet for S4412Y Conductive Yarn**

**Description:** silver-plated nylon 66 40/12 yarn (air-entangled twist)

**Appearance:** silvery gray

**Nominal Diameter:** 2.8 mils (70  $\mu$ m)

**Linear Resistance:** 12-14 ohm/cm (30-36 ohm/in)

**Yield:** 112,000 yd/lb (46,548 m/kg) for 44 total dtex yarn

**Breaking Strength:** ~0.42 lb (193 g)

**Tenacity:** ~ (43 cN/tex)

**Elongation at Break:** ~ 38%

**Temperature Limits:** up to 90°C

**Splice Frequency:** 4 max/package(spool), air splice only

**Packaging:** ~0.1 lb (net) spools on paper or plastic, 230 mm, 3°-30 cones

**Applications:** Conductive thread or wire for ESD, medical, EMI knitted gasket, and smart textiles applications. 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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