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# **CERMET SILVER CONDUCTOR**

# 903-C

## Lead-Free Conductor for Use with Ceramic Tape

ESL 903-C is a silver conductor designed for use as solderable top-layer metallization for use with low dielectric constant co-fired ceramic tape. ESL 903-C is used as a post-fired conductor.

### PASTE DATA

RHEOLOGY:	Thixotropic, screen printable paste
VISCOSITY: (Brookfield RVT, ABZ Spindle, 10 rpm, 25.5°C±0.5°C)	250±50 Pa⋅s
BONDING MECHANISM:	Fritless
SHELF LIFE: (at 25°C)	6 months

### PROCESSING

SCREEN MESH/EMULSION:	325/25 μm
LEVELING TIME: (25°C)	5-10 minutes
DRYING AT 125°C:	10-15 minutes
FIRING:	850°C
SUBSTRATE OF CALIBRATION:	ESL 41110
THINNER:	ESL 401

#### **TYPICAL PROPERTIES**

FIRED THICKNESS:	< 15 µm
<b>RESISTIVITY:</b> (when normalized @ 25 μm & post-fired with ESL 41010 tape)	$\leq$ 2 m $\Omega$ /sq.
SOLDERED ADHESION:	< 15N

#### ESL Europe (KOP) 903-C 0403-New

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CAUTION: Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapours emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate MSDS sheet.

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