

ShrinkMate[™] Conductive heat shrink connectors provide EMI shielding without the use of solder

This lightweight solution provides not only electrical continuity, EMI, RFI, and ESD shielding, but also enables electrical connection between components of various sizes and shapes, and between solderable and non-solderabale surfaces.

Methode's ShrinkMate[™] connectors use MII-I-23053/5 polyolefin tubing, or clear medical grade polyester tubing and a highly conductive Polymer Thick Film silver inner coating. The coating shrinks with a heat gun, oven, or any other conventional heat source. When the tubing is set, the inner conductive layer provides an electrical connection between the outside surface of the objects that are joined by the tubing. Coaxial cable butt joints and cable to shielded connector housing joints can be made fast and easy and without the use of solder.

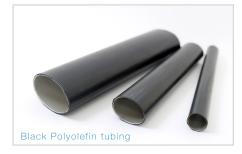
Key Features

- Eliminates soldering
- Fast & Easy Connections
- Lightweight
- Very small diameters available
- Ideal for splicing coaxial cables
- Forms cable to shielded housing connections

SPECIFICATIONS

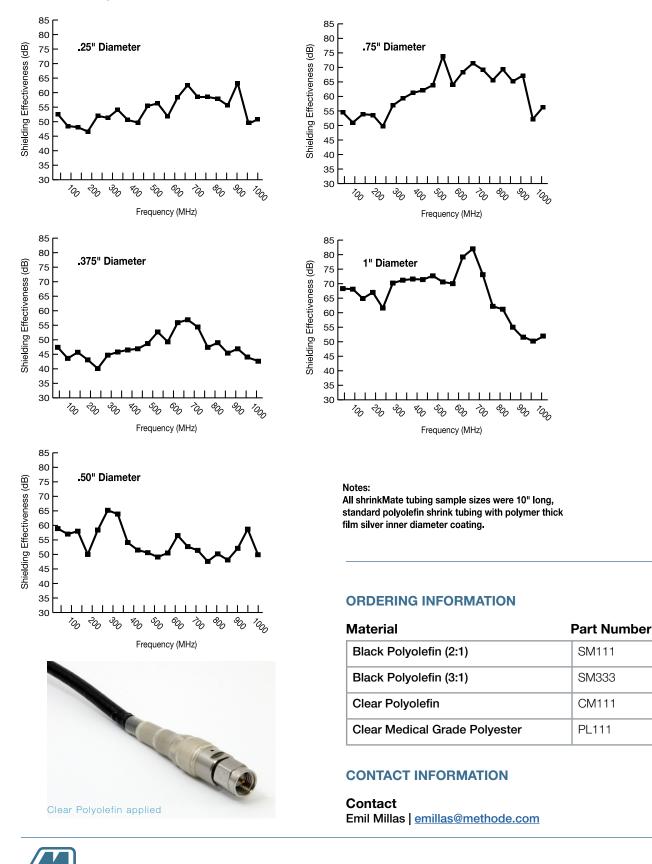
Environmental & Electrical

| Materials Available | Multi-Purpose Polyolefin | Clear Medical-Grade |
|-------------------------|--|---------------------------|
| | (black or clear) | Polyester |
| Operating Temperature | -55° C to +135° C | Please Contact Methode |
| Longitudinal Shrink | 2% | Please Contact Methode |
| Shrink Ratio (diameter) | 2:1 & 3:1 | 15-20% at 85° C to 190° C |
| Processing Temperature | 120° C | Please Contact Methode |
| Dielectric Strength | 600 Volts/mil | >4,000 V/mil |
| Conductivity | The resistance of a shrunken tube is approximately 1 ohm per inch. The resistance of any splice is determined by the gap between two objects being spliced. A 0.1 inch gap will have 0.1 ohm resistance. | |
| Outgassing | Passes the Aerospace Industry General Specification Vacuum Stability Requirements of Polymeric Material for Spacecraft Application for Mass Loss and Collected Volatile Condensable Materials per ASTM E-595, NASA Sp-R-002A and ESA PSS-01-702. | |
| EU REACH Compliance | Reach Compliant through 16 December 2013 | |
| RoHS Compliance | Compliant to RoHS Directive 2011/65/EU and amendments though Directive 2012/51/EU | |





Shielding Effectiveness



ETHODE ELECTRONICS, INC. | User Interface | Power | Data | Sensors & Switches

SM111

SM333

CM111

PL111

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