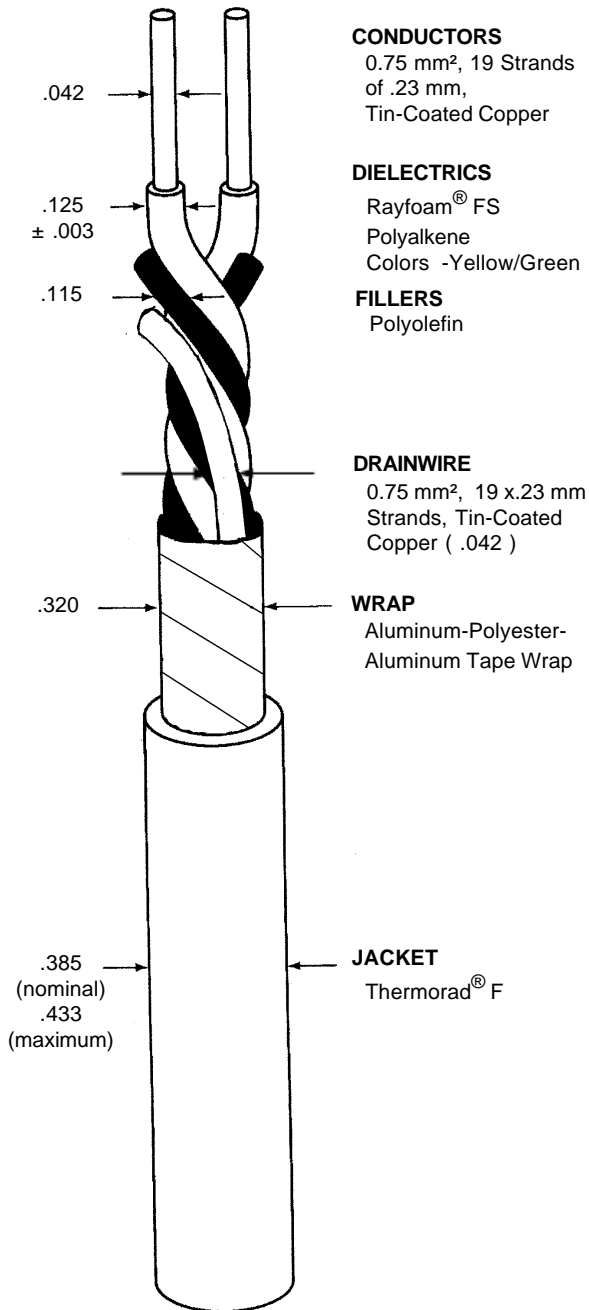


THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

**CONSTRUCTION DETAILS**

**ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.



**CONDUCTORS**  
0.75 mm<sup>2</sup>, 19 Strands  
of .23 mm,  
Tin-Coated Copper

**DIELECTRICS**  
Rayfoam<sup>®</sup> FS  
Polyalkene  
Colors -Yellow/Green

**FILLERS**  
Polyolefin

**DRAINWIRE**  
0.75 mm<sup>2</sup>, 19 x.23 mm  
Strands, Tin-Coated  
Copper ( .042 )

**WRAP**  
Aluminum-Polyester-  
Aluminum Tape Wrap

**JACKET**  
Thermorad<sup>®</sup> F

CHARACTERISTIC IMPEDANCE	120 ± 12 ohms, Method D at 1 MHz (with shield grounded)
CAPACITANCE - MUTUAL	10.5 pF/ft. (nominal)
VELOCITY OF PROPAGATION	74% (nominal)
SURFACE TRANSFER IMPEDANCE	225 milliohms/meter (maximum) at 0.1 to 1 MHz (Per MIL-C-85485)

**ADDITIONAL REQUIREMENTS**

ELECTRICAL

CONDUCTOR RESISTANCE	7.53 ohms/1000 ft. (nominal)
INSULATION RESISTANCE	10,000 megohms (minimum) for 1000 ft.
VOLTAGE WITHSTAND (DIELECTRIC)	1000 volts (rms) (minimum)

ENVIRONMENTAL

FLAMMABILITY	Method C
HEATSHOCK	225°C
LOW TEMPERATURE-COLD BEND	-55°C/11.00 inch mandrel
VOLTAGE WITHSTAND (POST ENVIRONMENTAL)	1000 volts (rms), 60 Hz, 1 minute

PHYSICAL

DIELECTRIC ELONGATION	100% (minimum)
TENSILE STRENGTH	1250 lbf/in <sup>2</sup> (minimum)
JACKET ELONGATION	300% (minimum)
TENSILE STRENGTH	2500 lbf/in <sup>2</sup> (minimum)
CONCENTRICITY	70% (minimum)
JACKET THICKNESS	.030 ± .005 inch
WRAP	.0035 inch thick (nominal)

JACKET MARK: Mark outer jacket at 12 inch (nominal) intervals in white ink as follows:  
" RAYCHEM J1939-11 0.75mm<sup>2</sup> "

WEIGHT	53.6 lbs/1000 ft. (nominal)
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Outer jacket will be Black (designated by a -0 appended to the part number, e.g., 2019D0301-0) unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.