

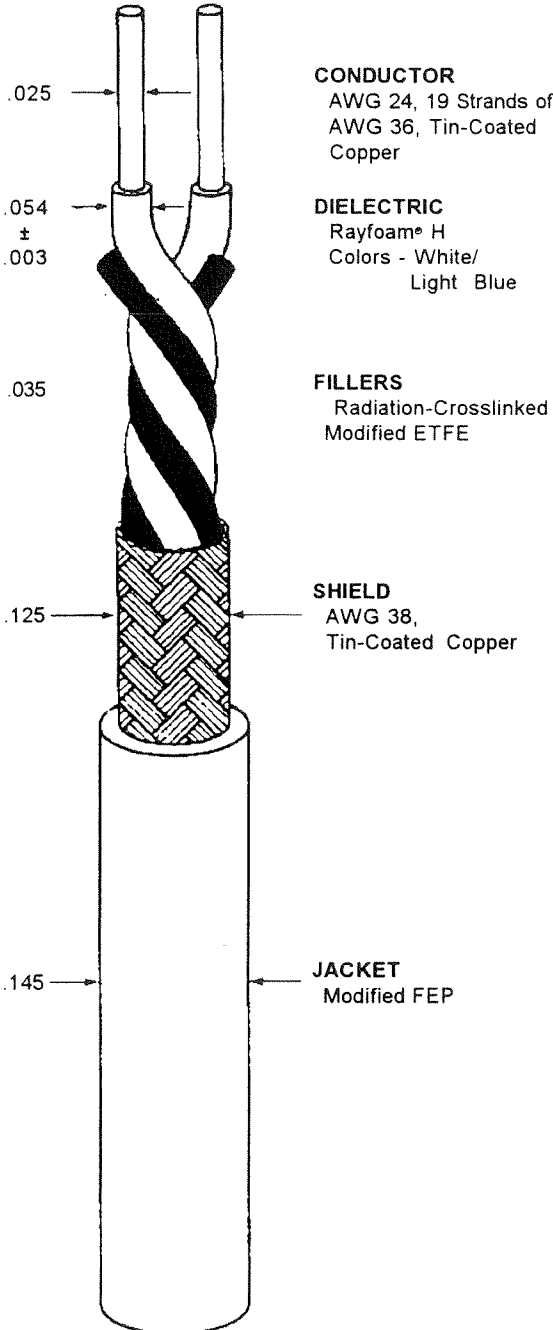
THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

**CONSTRUCTION DETAILS**

**ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.

|                          |                                 |
|--------------------------|---------------------------------|
| CHARACTERISTIC IMPEDANCE | 100 ± 8 ohms, Method C at 1 MHz |
| CAPACITANCE - MUTUAL     | 13.5 pF/ft. (nominal)           |
| VELOCITY OF PROPAGATION  | 76% (nominal)                   |
| CAPACITANCE UNBALANCE    | 3% (nominal)                    |



**ADDITIONAL REQUIREMENTS**

ELECTRICAL

|                                   |  |
|-----------------------------------|--|
| CONDUCTOR RESISTANCE              | 24.8 ohms/1000 ft. (nominal)             |
| INSULATION RESISTANCE             | 10,000 megohms (minimum)<br>for 1000 ft. |
| JACKET FLAWS                      |  |
| SPARK TEST                        | 1.0 kV (rms), 60 Hz                      |
| IMPULSE TEST                      | 6.0 kV, (peak)                           |
| VOLTAGE WITHSTAND<br>(DIELECTRIC) | 1000 volts (rms), (minimum)              |
| LOOP RESISTANCE                   | 60 ohms/1000 ft. (nominal)               |

ENVIRONMENTAL

|                               |                               |
|-------------------------------|-------------------------------|
| AGING STABILITY               | 135°C/-55°C/3.75 inch mandrel |
| FLAMMABILITY                  | Method B                      |
| HEAT SHOCK                    | 225°C                         |
| LOW TEMPERATURE-<br>COLD BEND | -55°C/3.75 inch mandrel       |

PHYSICAL

|   |                                    |
|---|------------------------------------|
| INSULATION (DIELECTRIC)<br>(Prior to cabling) |                                    |
| ELONGATION                                    | 50% (minimum)                      |
| TENSILE STRENGTH                              | 600 lbf/in <sup>2</sup> (minimum)  |
| JACKET  |                                    |
| ELONGATION                                    | 200% (minimum)                     |
| TENSILE STRENGTH                              | 2000 lbf/in <sup>2</sup> (minimum) |
| JACKET THICKNESS                              | .010 inch (nominal)                |
| SHIELD COVERAGE                               | 90% (minimum)                      |
| LOOP-RESISTANCE                               | 60 ohms/1000 ft. (nominal)         |

WEIGHT 17.3 lbs/1000 ft. (nominal)

Outer jacket color will be transparent white (designated by a "-9X" appended to the part number, e.g. 0024A0021-9X) unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681.