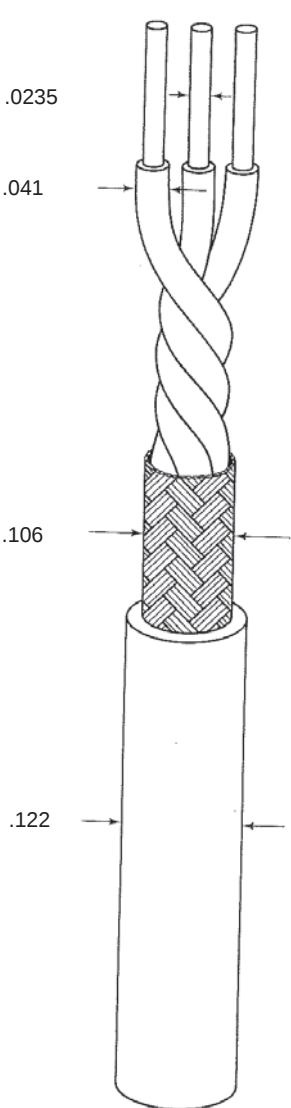


| SPECIFICATION CONTROL DRAWING                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |                                                                                         | 7024B0131 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------|
| CHEMINAX                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70 OHM, AWG 24, 19 STRANDS OF AWG 36,<br>THREE CONDUCTOR CABLE | Date                                                                                    | 9-2-11    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | Revision                                                                                | A         |
| THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |                                                                                         |           |
| CONSTRUCTION DETAILS                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                | ELECTRICAL CHARACTERISTICS                                                              |           |
| <div>DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.</div> <div></div> <div><b>CONDUCTORS</b><br/>AWG 24, 19 Strands of<br/>AWG 36, Tin-Coated<br/>Copper</div> <div><b>DIELECTRICS</b><br/>Rayolin F<br/>Colors - White/Black/Red</div> <div><b>SHIELD</b><br/>AWG 38,<br/>Tin-Coated Copper</div> <div><b>JACKET</b><br/>Radiation-Crosslinked,<br/>Modified PVDF</div> |                                                                | CHARACTERISTIC IMPEDANCE 70 ± 10 ohms, Method C at 1 MHz                                |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | MUTUAL CAPACITANCE 24.4 pF/ft. (nominal)                                                |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | VELOCITY OF PROPAGATION 66% (nominal)                                                   |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                |                                                                                         |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | ADDITIONAL REQUIREMENTS                                                                 |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | <u>ELECTRICAL</u>                                                                       |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | CONDUCTOR RESISTANCE 25.7 ohms/1000 ft. (nominal)                                       |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | INSULATION RESISTANCE 10,000 megohms (minimum) for 1000 ft.                             |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | JACKET FLAWS                                                                            |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | SPARK TEST 1.0 kV (rms)                                                                 |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | IMPULSE TEST 6.0 kV (peak)                                                              |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | VOLTAGE WITHSTAND (DIELECTRIC) 1000 volts (rms) (minimum)                               |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | <u>ENVIRONMENTAL</u>                                                                    |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | FLAMMABILITY Method B                                                                   |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | HEAT SHOCK 225°C                                                                        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | LOW TEMPERATURE-COLD BEND -55°C/3.25 inch mandrel                                       |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | VOLTAGE WITHSTAND (Post Environmental) 1000 volts (rms), 1 minute                       |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | <u>PHYSICAL</u>                                                                         |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | INSULATION (DIELECTRIC) (Prior to Cabling)                                              |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | ELONGATION 200% (minimum)                                                               |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | TENSILE STRENGTH 1800 lbf/in <sup>2</sup> (minimum)                                     |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | JACKET                                                                                  |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | ELONGATION 200% (minimum)                                                               |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | TENSILE STRENGTH 4000 lbf/in <sup>2</sup> (minimum)                                     |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | JACKET THICKNESS .008 inch (nominal)                                                    |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | SHIELD COVERAGE 90% (minimum)                                                           |           |
| Outer jacket color will be white (designated by a “-9” appended to the part number, e.g. 7024B0131-9) 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.                                                                                                                                                                                                                                                    |                                                                |                                                                                         |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                | WEIGHT 12.4 lbs/1000 ft. (nominal)                                                      |           |
| Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.                                                                                                                                                         |                                                                |                                                                                         |           |
| Page 1 of 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                | Rayolin, Raychem, TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks. |           |



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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

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