| SPECIFICATION CONTROL DRAWING | | | | 7724A1424 | |
|--|--|---|---|-------------------------------|--|
| CHEMINAX | 77 OHM, AWG 24, 19 STRANDS OF AWG 36, OPTIMIZED SHIELD, DATA BUS CABLE | | | Date: 8-8-18 Revision: B | |
| THIS SPECIFIC | ATION SHEET FORMS A PART | OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION | | DN 1200. | |
| CONSTRUCTION DETAILS | | ELECTRICAL CHARACTERISTICS | | | |
| DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED. | | CHARACTERISTIC IMPEDANCE | 77 ± 5 ohm | ns, Method C at 1 MHz | |
| | | MUTUAL CAPACITANCE | 18 pF/ft. (nominal) | | |
| | | VELOCITY OF PROPAGATION | 76% (nomi | nal) | |
| .0250 | CONDUCTORS AWG 24, | ATTENUATION | 1.4 dB/100 ft. (maximum) at 1 MHz | | |
| | 19 Strands of AWG 36, Silver-Coated High- | SURFACE TRANSFER IMPEDANCE | TBD | | |
| | Strength Copper Alloy DIELECTRICS | ADDITIONAL REQUIREMENTS | | | |
| .041 | Foamed FEP Colors - Light Blue/White | | | | |
| .027 | FILLERS Radiation-Crosslinked, | | OG E ahma | (1000 ft (nominal) | |
| | | CONDUCTOR RESISTANCE (prior to cabling) | 20.3 0NMS/ | /1000 ft. (nominal) | |
| | Modified ETFE | INSULATION RESISTANCE | 10,000 megohms (minimum) for 1000 ft. | | |
| | | JACKET FLAWS | | , | |
| | | SPARK TEST IMPULSE TEST | | 1.0 kV (rms) 6.0 kV (peak) | |
| | SHIELD - Optimized | VOLTAGE WITHSTAND (DIELECTRIC) | 1000 volts (rms) (minimum) | | |
| .099 | AWG 38, Silver-Coated High- | | | | |
| | Strength Copper Alloy | | | | |
| | | FLAMMABILITY | Method B | | |
| | | HEAT SHOCK | 225°C | | |
| | | LOW TEMPERATURE-COLD BEND | -55°C/3.25 | inch mandrel | |
| | | UV LASER MARKING (per SAE AS4373, Method 1001) SOLID LASER DOT MATRIX LASER | For 7724A1424-9LM only: 67% (minimum) 60% (minimum) | | |
| .119 | JACKET Modified FEP | VOLTAGE WITHSTAND (Post Environmental) | 1000 volts | (rms), 1 minute | |
| | | PHYSICAL | | | |
| | | CABLE LAY LENGTH | .75 inch (m | iinimum), | |
| | | | | s (maximum) | |
| | | INSULATION (DIELECTRIC) (prior to cabling) ELONGATION TENSILE STRENGTH | 50% (minir 600 lbf/in² | | |
| | | JACKET | | () | |
| Designate outer jacket color with a dash number in accordance | | ELONGATION TENSILE STRENGTH | 200% (minimum) 2000 lbf/in² (minimum) | | |
| with MIL-STD-681. Unless otherwise specified, outer jacket color will be translucent white designated by a "-9X" appended to the part number, e.g. 7724A1424-9X. | | JACKET THICKNESS | .010 inch (nominal) | | |
| A white laser markable outer jacket will be designated by a "-9LM" appended to the part number, e.g. 7724A1424-9LM. | | WEIGHT | 13.6 lbs/1000 ft. (nominal) | | |
| Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order. | | ENGINEERING REFERENCE | | | |
| | | TEMPERATURE RATING | 200°C (ma | ximum) | |
| Jsers should evaluate the suitability | | Specifications are subject to change without r ompliance with any specification, without notific | | | |
| Page 1 of 1 | Cheminax, Raychem, | TE Connectivity, and TE connectivity (logo) | | | |
| 501 Oak Redwood | Raychem Wire & Cable 501 Oakside Avenue Redwood City, California 94063-3800 Phone: 1-800-522-6752 Fax: 1-650-361-6297 Cable Company Compan | | | | |