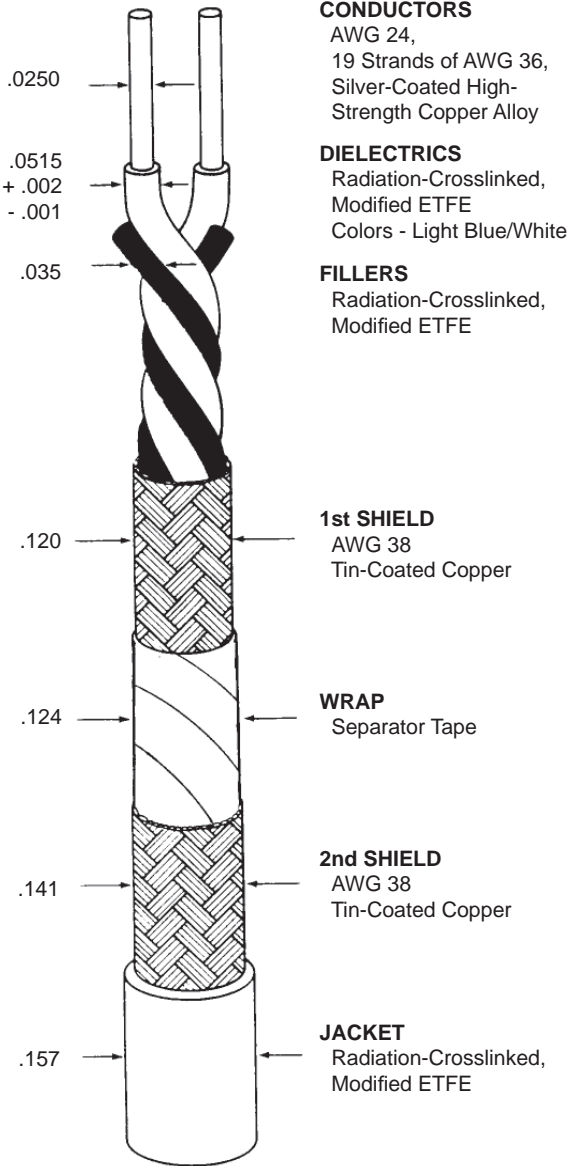


<b>SPECIFICATION CONTROL DRAWING</b>		<b>7724Y3664</b>	
<b>CHEMINAX</b>	77 OHM, AWG 24, 19 STRANDS OF AWG 36, DATA BUS CABLE, MIL-STD-1553	Date	10-2-13
		Revision	D

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

<b>CONSTRUCTION DETAILS</b>	<b>ELECTRICAL CHARACTERISTICS</b>
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DIMENSIONS ARE NOMINAL VALUES IN INCHES, UNLESS OTHERWISE DESIGNATED.



**CONDUCTORS**  
AWG 24,  
19 Strands of AWG 36,  
Silver-Coated High-  
Strength Copper Alloy

**DIELECTRICS**  
Radiation-Crosslinked,  
Modified ETFE  
Colors - Light Blue/White

**FILLERS**  
Radiation-Crosslinked,  
Modified ETFE

**1st SHIELD**  
AWG 38  
Tin-Coated Copper

**WRAP**  
Separator Tape

**2nd SHIELD**  
AWG 38  
Tin-Coated Copper

**JACKET**  
Radiation-Crosslinked,  
Modified ETFE

CHARACTERISTIC IMPEDANCE	77 ± 5 ohms, Method C at 1 MHz
MUTUAL CAPACITANCE	30.0 pF/ft. (maximum)
ATTENUATION	1.4 dB/100 ft. (maximum) at 1 MHz

**ADDITIONAL REQUIREMENTS**

**COMPONENT WIRE PRIOR TO CABLING (Test Procedures per SAE AS22759)**

CONDUCTOR RESISTANCE (prior to cabling)	26.5 ohms/1000 ft. (nominal)
CROSSLINKING PROOF TEST	300 ± 3°C for 1 hour, .625 inch mandrel, .375 lb., 2.5 kV dielectric test
INSULATION (DIELECTRIC) ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in <sup>2</sup> (minimum)
INSULATION FLAWS SPARK TEST	3.0 kV (rms)
IMPULSE TEST	8.0 kV (peak)
INSULATION RESISTANCE	5000 megohms for 1000 ft. (minimum)
LOW TEMPERATURE-COLD BEND	-65 ± 3°C for 4 hours, .500 inch mandrel, 1.00 lb., 2.5 kV dielectric test
SHRINKAGE	200 ± 3°C for 1 hour, .125 inch (maximum) in 12 inches

**FINISHED CABLE (Test Procedures per NEMA WC 27500, unless otherwise specified)**

BLOCKING	200°C for 6 hours
CABLE LAY LENGTH	.75 inch (minimum), 1.25 inches (maximum)
CROSSLINKED VERIFICATION	300 ± 5°C for 6 hours, 6.00 inch mandrel
FLAMMABILITY (Method B of Spec 1200)	3 seconds (maximum); 3 inches (maximum); no flaming of facial tissue
JACKET ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in <sup>2</sup> (minimum)
JACKET FLAWS SPARK TEST	1.0 kV (rms)
IMPULSE TEST	6.0 kV (peak)
JACKET THICKNESS	.008 inch (nominal)
LOW TEMPERATURE-COLD BEND	-55 ± 5°C for 4 hours, 6.00 inch mandrel
SHIELD COVERAGE (each)	85% (minimum)
VOLTAGE WITHSTAND Conductor to Shield	1500 volts (rms)
WRAP	.001 inch thick (nominal) 25% overlap (minimum)

Outer jacket color will be white (designated by a "-9" appended to the part number, e.g. 7724Y3664-9), 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.

CABLE IDENTIFICATION: Outer jacket shall be marked in a contrasting color at 12 inch (nominal) intervals between marks as follows:

7724Y3446-\* RAYCHEM  
Where \* = Applicable Jacket Color

WEIGHT 22.4 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.

