SPECIFICATION CONTROL DRAWING

7724S3664

CHEMINAX

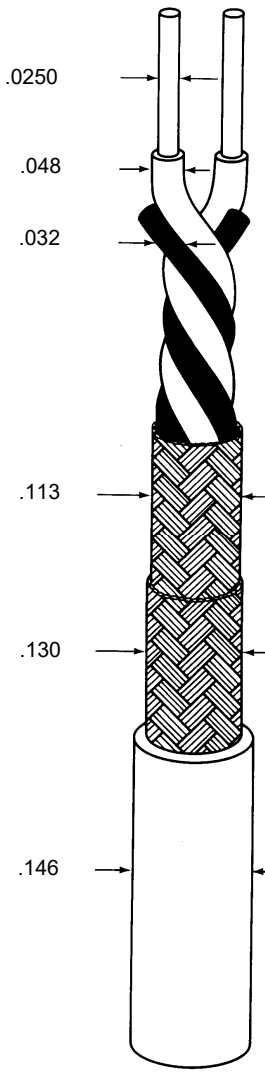
77 OHM, AWG 24, 19 STRANDS OF AWG 36, OPTIMIZED DOUBLE SHIELDS, DATA BUS CABLE, MIL-STD-1553, OUTER SPACE USE

Date: 8-8-18
Revision: E

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

CONSTRUCTION DETAILS

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 - Optimized
AWG 38,
Silver-Coated Copper

2nd SHIELD - Optimized
AWG 38,
Silver-Coated Copper

JACKET
Radiation-Crosslinked, Modified ETFE

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Unless otherwise specified, outer jacket color will be white designated by a "-9" appended to the part number, e.g. 7724S3664-9.

Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

ELECTRICAL CHARACTERISTICS

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
SURFACE TRANSFER IMPEDANCE (Per SAE AS85485)	10 milliohms/meter (maximum) at 30 MHz

ADDITIONAL REQUIREMENTS

COMPONENT WIRE PRIOR TO CABLING (Test procedures per SAE AS22759)

CONDUCTOR RESISTANCE	26.5 ohms/1000 ft. (nominal)
CROSSLINKING PROOF TEST	300 ± 3°C for 1 hour, .500 inch mandrel, .375 lb, 2.5 kV dielectric test
INSULATION (DIELECTRIC)	
ELONGATION	50% (minimum)
TENSILE STRENGTH	5000 lbf/in^2 (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, .750 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^2 (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
VOLTAGE WITHSTAND (DIELECTRIC)	1000 volts (rms) (minimum)
WEIGHT	21.7 lbs/1000 ft. (nominal)

OUTER SPACE REQUIREMENTS

RADIATION RESISTANCE	500 megarads/4.25 inch mandrel
VACUUM STABILITY	
TOTAL MASS LOSS (TML)	1.00% (maximum)
VOLATILE CONDENSABLE MATERIAL (VCM)	0.10% (maximum)
WEIGHT LOSS	0.45% (maximum)

ENGINEERING REFERENCE

TEMPERATURE RATING	200°C (maximum)

Raychem Wire & Cable
501 Oakside Avenue
Redwood City, California 94063-3800
Phone: 1-800-522-6752 Fax: 1-650-361-6297

单击下面可查看定价，库存，交付和生命周期等信息

>>TE Connectivity(泰科)