

CHEMINAX

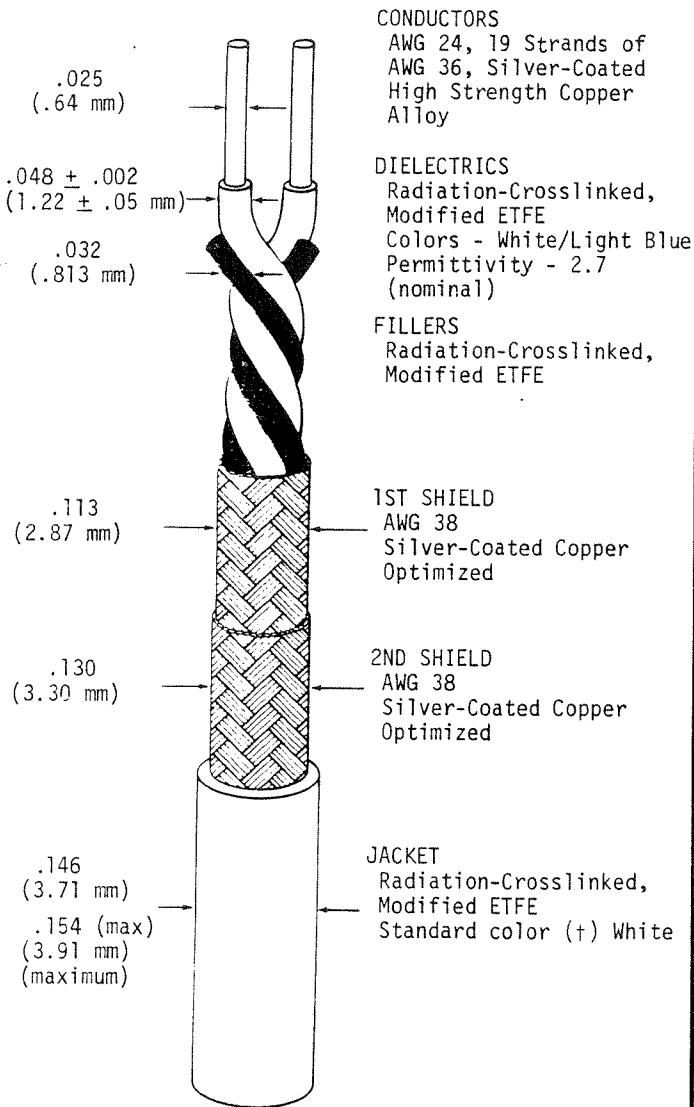
DATA BUS CABLE, OPTIMIZED DOUBLE SHIELD,
MULTIPLEX, MIL-STD-1553

Date: 8-31-88
Revision:

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. METRIC UNITS SHOWN IN PARENTHESES ARE APPROXIMATE EQUIVALENTS IN MILLIMETERS AND ARE FOR INFORMATION ONLY.



ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE	77 ± 5 ohms, Method C at 1 MHz
CAPACTIANCE - MUTUAL	30 pF/ft (98 pF/m) (maximum)
ATTENUATION	1.4 dB/100 ft. (4.6 dB/100 m) (maximum) at 1 MHz
SURFACE TRANSFER IMPEDANCE (PER MIL-C-85485 at 30 MHz)	10 milliohms/meter (maximum)

ADDITIONAL REQUIREMENTS

COMPONENT WIRE PRIOR TO CABLING (Per MIL-W-22759)	
ACCELERATED AGING (per MIL-W-22759 Life Cycle Procedure)	300 ± 3°C for 7 hours, .500 in. (12.7 mm) mandrel, .375 lb (170 g), 2.5 kV dielectric test
COLD BEND	-65 ± 2°C for 4 hours, .750 in. (19.1 mm) mandrel, 1.00 lb (454 g)
SHRINKAGE	2.5 kV dielectric test 200 ± 3°C for 6 hours, .125 in. (3.2 mm) (max) in 12 in. (300 mm)
INSULATION RESISTANCE	5000 MΩ for 1000 ft. (1525 MΩ-km) (min)
INSULATION (DIELECTRICS)	
TENSILE STRENGTH	5000 psi (34 N/mm ²) (min)
ELONGATION	50% (min)
IMPULSE DIELECTRIC	8.0 kV (peak), 100% test
FINISHED CABLE (Per MIL-C-27500)	
BLOCKING	200°C for 6 hours
COLD BEND	-65 ± 2°C for 4 hours 6 in. (152 mm) mandrel
CROSSLINKED VERIFICATION	300 ± 5°C for 6 hours 1.75 in. (44.5 mm) mandrel
FLAMMABILITY (Per Raychem Spec 55A, procedure 1)	3 seconds (max); 3 in. (76 mm) (max); no flaming of facial tissue
WEIGHT	21.6 lbs/1000 ft (32.2 kg/km) (nom)
SHIELD COVERAGE	90% (minimum) (each)
JACKET FLAWS	1000 volts, 60 Hz, 100% test
VOLTAGE WITHSTAND (DIELECTRIC)	1000 volts (rms) (min)
JACKET	
WALL THICKNESS	.008 in. (.2 mm) (nominal)
TENSILE STRENGTH	5000 psi (34 N/mm ²) (min)
ELONGATION	50% (min)

The length of lay shall be .75 in. (minimum) to 1.25 in. (maximum).

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

Raychem

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