

# SPECIFICATION CONTROL DRAWING

55A7400

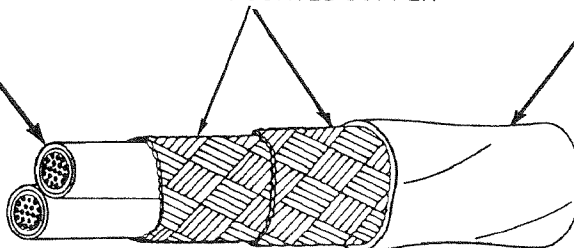
TITLE TWO CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED

Date 5-21-98

Revision

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-DTL-27500 as applicable.

COMPONENT WIRES - 55A0813      SHIELDS - TIN-COATED COPPER      JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



## CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A7400-26-*	26	38	38	.005	.010	.130	.137	15.3
55A7400-24-*	24	38	38	.005	.010	.140	.147	17.7
55A7400-22-*	22	38	38	.005	.010	.150	.158	20.6
55A7400-20-*	20	38	38	.005	.010	.166	.174	25.5
55A7400-18-*	18	38	38	.006	.011	.190	.200	33.4
55A7400-16-*	16	38	38	.006	.011	.204	.214	38.7
55A7400-14-*	14	38	38	.007	.012	.240	.252	53.1
55A7400-12-*	12	38	38	.007	.013	.274	.288	70.7
55A7400-10-*	10	38	36	.007	.013	.326	.342	106.

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 300 ± 5°C for 6 hours

DIELECTRIC WITHSTAND:

1500 volts (rms), 60 Hz conductor to shield

FLAMMABILITY:

Procedure 1, 3 seconds (maximum); 3 in. (maximum);

no flaming of facial tissue

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)

JACKET FLAWS:

Spark Test, 1500 volts (rms), 60 Hz or 3000 Hz,

100% test

LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours

SHIELD COVERAGE: 85% (minimum) (each)

SHIELD SOLDERABILITY: Per MIL-DTL-27500

VOLTAGE WITHSTAND TEST: (POST ENVIRONMENTAL)

1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "\*" in the part numbers above shall be replaced by color code designators with a slash separating component wires colors and a dash separating the component wire color from the jacket color.

Example: AWG 22, white and white with blue stripe component wires; white jacket:  
55A7400-22-9/96-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSM2V23, less identification.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.