

# SPECIFICATION CONTROL DRAWING

55A7285

TITLE

FIVE CONDUCTOR CABLE, DOUBLE SHIELDED, DOUBLE JACKETED

Date

4-20-95

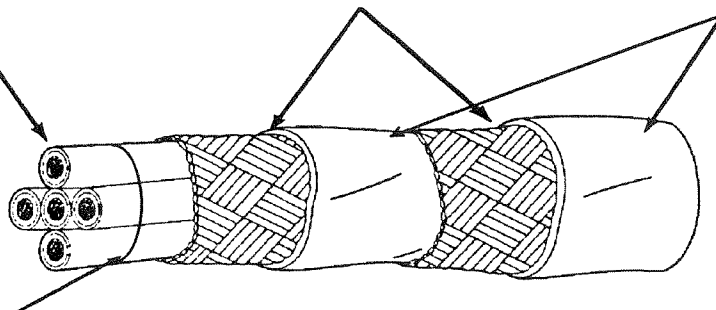
Revision

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

COMPONENT WIRES - 55A0113

SHIELDS-NICKEL-COATED COPPER

JACKETS - RADIATION-CROSSLINKED,  
MODIFIED ETFE



FILAMENT BINDER AS REQUIRED

## CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	INNER JACKET THICKNESS (inches)		OUTER SHIELD SIZE (AWG)	OUTER JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	MAXIMUM		MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A7285-26-*	26	38	.004	.008	38	.005	.010	.148	.166	23.0
55A7285-24-*	24	38	.004	.008	38	.005	.010	.162	.182	28.0
55A7285-22-*	22	38	.004	.008	38	.006	.011	.178	.201	34.3
55A7285-20-*	20	38	.005	.008	38	.006	.011	.197	.223	44.6

## ADDITIONAL REQUIREMENTS

### TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

AGING STABILITY: 230 ± 5°C for 96 hours

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 300 ± 5°C for 6 hours

### DIELECTRIC WITHSTAND:

1500 volts (rms), 60 Hz conductor to conductor

and shield, 500 volts (rms), 60 Hz shield 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) (each)

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

### JACKET FLAWS:

Spark Test, 1500 volts (rms), 60 Hz, 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

### LOW TEMPERATURE-COLD BEND:

-55 ± 5°C for 4 hours

SHIELD COVERAGE: 85% (minimum) (each)

THERMAL SHOCK: 230 ± 5°C for 4 hours

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 the component wire colors, a dash separating the component wire colors from the inner jacket color and a dash separating the inner jacket color from the outer jacket color.

Example: AWG 22, White, blue, orange, green and red component wires; white inner jacket and white outer jacket: 55A7285-22-9/6/3/5/2-9-9

NOTE: Nominal values are for information only.

Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSS5Y73, less identification.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.

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

**Raychem**

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