

SPECIFICATION CONTROL DRAWING

55A7285

TITLE

FIVE CONDUCTOR CABLE, DOUBLE SHIELDED, DOUBLE JACKETED

Date

4-20-95

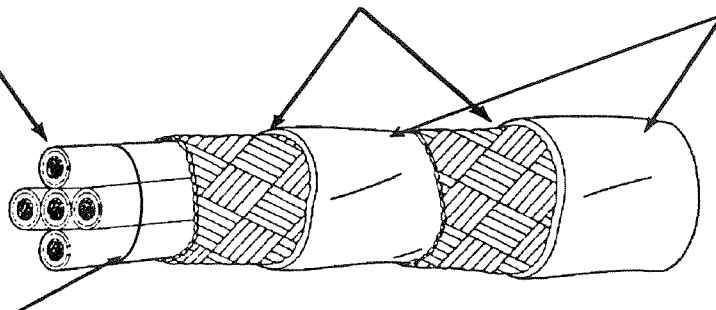
Revision

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/in² (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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