

# SPECIFICATION CONTROL DRAWING

**55A6215**

TITLE THREE CONDUCTOR CABLE, SHIELDED, JACKETED, NORMAL WEIGHT, 600 VOLT

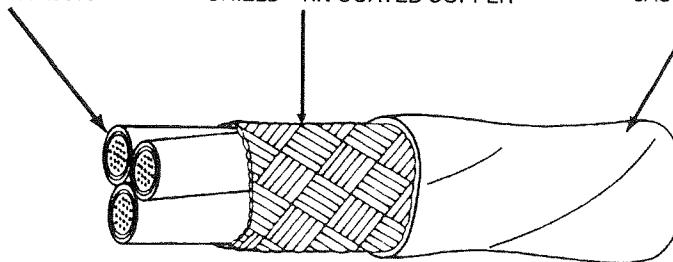
Date 12-11-92

Revision C

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

COMPONENT WIRES - 55A0813

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED,  
MODIFIED ETFE

## CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lbs/1000 ft)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6215-24-*	24	38	.005	.010	.130	.137	14.7
55A6215-22-*	22	38	.005	.010	.142	.149	18.8
55A6215-20-*	20	38	.005	.010	.159	.167	25.0
55A6215-18-*	18	38	.006	.011	.183	.191	33.6
55A6215-16-*	16	38	.006	.011	.200	.209	41.1
55A6215-14-*	14	38	.007	.012	.238	.250	57.8
55A6215-12-*	12	38	.007	.013	.275	.288	80.9

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

### TEMPERATURE RATING: 150°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

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, 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)

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 and a dash separating  
the component wire colors from the jacket color.Example: AWG 20, white, blue, and orange component  
wires; white jacket: 55A6215-20-9/6/3-9NOTE: Nominal values are for information only.  
Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSM3T23. 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.

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