

# SPECIFICATION CONTROL DRAWING

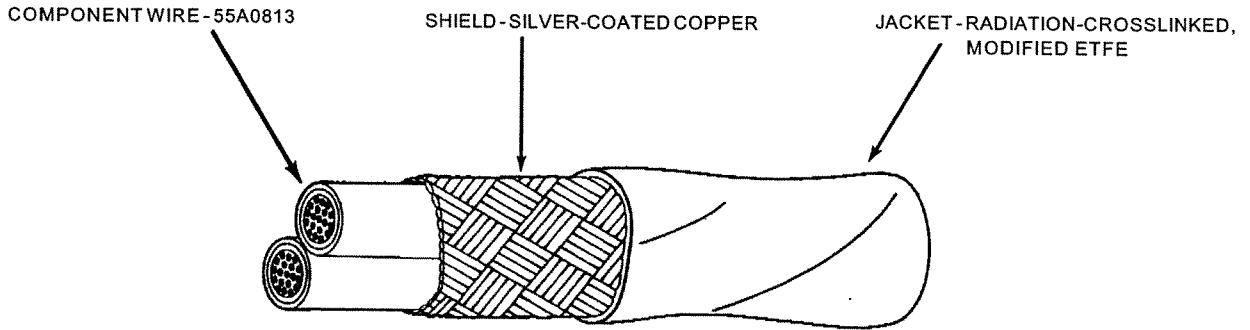
55A6514

TITLE TWO CONDUCTOR CABLE, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED ETFE-INSULATED, SHIELDED, JACKETED, NORMAL WEIGHT, 600 VOLT

Date 10-12-00

Revision C

This specification sheet forms a part of the latest issue of Raychem Specification 55A.



### CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft.)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6514-24-*	24	38	.005	.010	.123	.129	11.4
55A6514-22-*	22	38	.005	.010	.133	.140	13.9
55A6514-20-*	20	38	.005	.010	.149	.156	18.0
55A6514-18-*	18	38	.006	.011	.173	.182	24.6
55A6514-16-*	16	38	.006	.011	.187	.196	29.2

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 200°C**

Maximum continuous conductor temperature  
**VOLTAGE RATING: 600 volts (rms)**  
**BLOCKING: 200 ± 3°C for 6 hours**  
**CROSSLINK 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), 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

**LOW TEMPERATURE-COLD BEND: -55 ± 3°C for 4 hours**  
**SHIELD COVERAGE: 85% (minimum)**  
**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 and blue component wires; white jacket: 55A6514-20-9/6-9

This cable shall meet all constructional requirements of M27500 (AWGSM2S23)

**NOTE: Nominal values are for information only.**  
 Nominal values are not requirements.

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

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

**Raychem**