

# SPECIFICATION CONTROL DRAWING

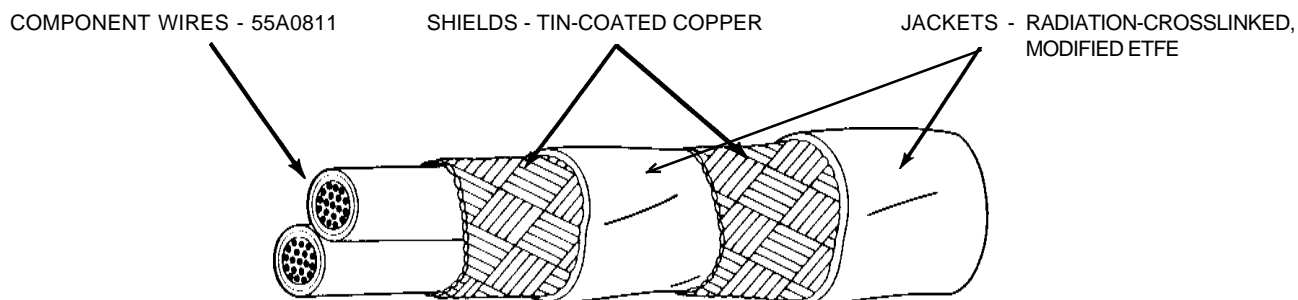
55AC8113

TITLE TWO CONDUCTOR CABLE, DOUBLE SHIELDED, DOUBLE JACKETED  
GENERAL PURPOSE, 600 VOLT

Date 9-19-06

Revision A

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



### CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	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	
55AC8113-24-*	24	38	.004	.008	38	.005	.010	.152	.160	21.7
55AC8113-22-*	22	38	.004	.008	38	.005	.010	.162	.170	25.0
55AC8113-20-*	20	38	.004	.008	38	.006	.011	.178	.187	30.3
55AC8113-18-*	18	38	.005	.009	38	.006	.011	.202	.212	38.8
55AC8113-16-*	16	38	.005	.009	38	.007	.012	.218	.229	45.1

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

**TEMPERATURE RATING: 150°C**

Maximum continuous conductor temperature

**VOLTAGE RATING: 600 volts (rms) at sea level**

**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 or 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)

Impulse Dielectric Test, 6.0 kV (peak)

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

**SHIELD COVERAGE: 90% (minimum) (each)**

**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 inner jacket color and a dash separating the inner jacket color from the outer jacket color.

1/ Example: AWG 22, black and brown component wires; white inner jacket and white outer jacket: 55AC8113-22-0/1-9-9

**NOTE: Nominal values are for information only.**

Nominal values are not requirements.

This cable shall meet all constructional requirements of M27500 (AWGSD2V73).

*Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.*

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx".) OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

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

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.



**Raychem** Wire & Cable  
501 Oakside Avenue  
Redwood City, CA 94063-3800  
Phone: 1-800-227-8816  
Fax: 1-650-361-6297