

# SPECIFICATION CONTROL DRAWING

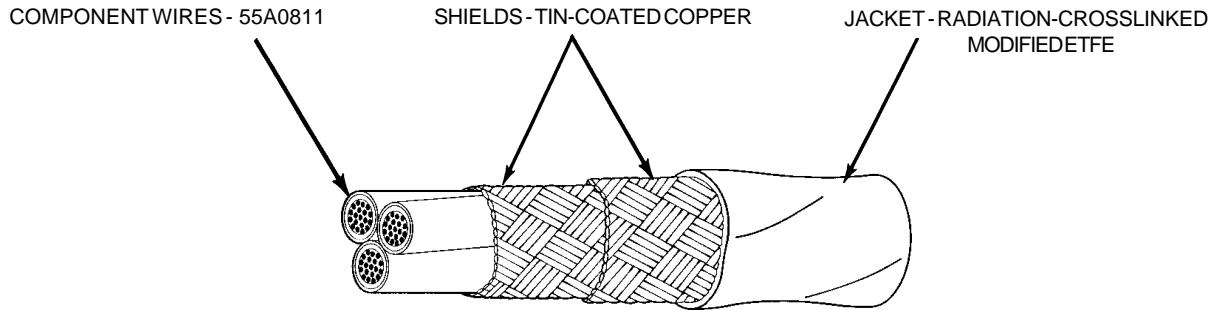
**55A6605**

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

Date 2-16-05

Revision C

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



CABLE CONSTRUCTION DETAILS								
PART NUMBER <u>1/</u>	CONDUCTOR SIZE (AWG)	1st SHIELD SIZE (AWG)	2nd SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft.)
				MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55A6605-22-*	22	38	38	.005	.010	.160	.168	25.8
55A6605-20-*	20	38	38	.006	.011	.175	.184	31.9
55A6605-18-*	18	38	38	.006	.011	.201	.211	42.7
55A6605-16-*	16	38	38	.006	.011	.216	.227	50.0
55A6605-14-*	14	38	38	.007	.012	.255	.268	69.8
55A6605-12-*	12	38	36	.007	.013	.296	.311	98.5
55A6605-10-*	10	36	36	.008	.014	.351	.369	147.

### 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

**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)

Impulse Dielectric Test, 6.0 kV (peak)

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

SHIELD COVERAGE: 85% (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 a color code designator with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color. Colors shown do not necessarily reflect the sequence of manufacturing.

1/ Example: AWG 22, black, brown and red component wires; white jacket; 55A6605-22-0/1/2-9

This cable shall meet all constructional requirements of M27500 (AWGSD3V23).

NOTE: Nominal values are for information only.

Nominal values are not requirements.

*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