

# SPECIFICATION CONTROL DRAWING

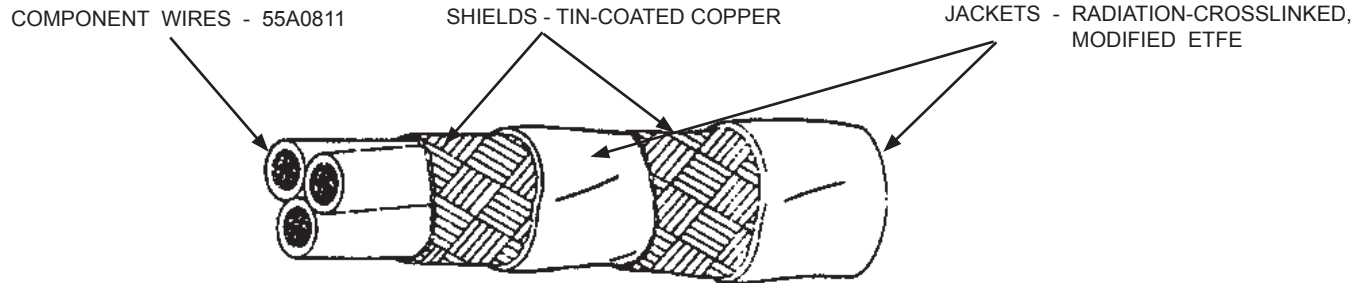
**55AC6068**

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

Date 3-2-09

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 (lbs/1000 ft.)
			MINIMUM	MAXIMUM		MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
55AC6068-24-*	24	38	.004	.008	38	.005	.010	.159	.167	25.5
55AC6068-22-*	22	38	.004	.008	38	.006	.011	.170	.179	29.9
55AC6068-20-*	20	38	.004	.008	38	.006	.011	.187	.197	37.0
55AC6068-18-*	18	38	.005	.008	38	.006	.011	.213	.224	48.5
55AC6068-16-*	16	38	.005	.008	38	.007	.012	.230	.242	56.9

### 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 inches (maximum);  
no flaming of 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, 1.5 kV (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. Colors shown do not necessarily reflect the sequence of manufacturing.

1/ Example: AWG 20, black, brown and red component wires;  
white inner jacket and white outer jacket:  
55AC6068-20-0/1/2-9-9

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

This cable shall meet all constructional requirements of M27500 (AWGSD3V73).

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.	
Page 1 of 1	The TE logo, Tyco Electronics and Raychem are trademarks.
	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 Oakeside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297	