

# SPECIFICATION CONTROL DRAWING

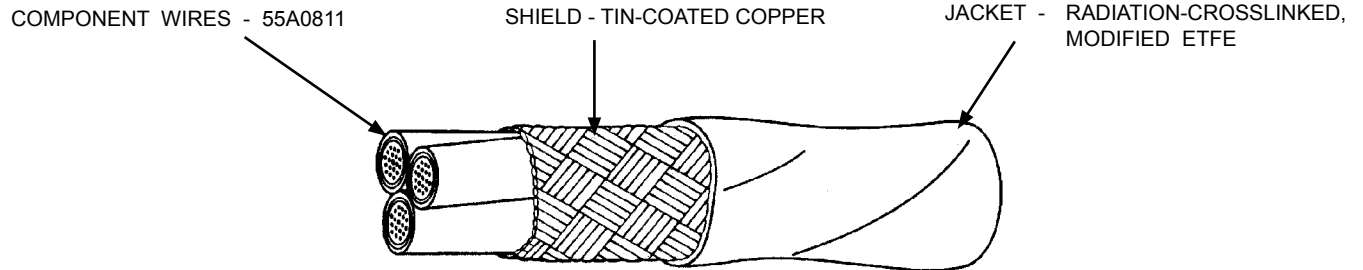
**55A1831**

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

Date 2-19-13

Revision G

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



### CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A1831-26-*	26	38	.006	.008	.119	.125	12.1
55A1831-24-*	24	38	.006	.008	.130	.137	14.7
55A1831-22-*	22	38	.006	.008	.141	.149	18.5
55A1831-20-*	20	38	.006	.008	.158	.167	24.7
55A1831-18-*	18	38	.006	.008	.184	.193	33.3
55A1831-16-*	16	38	.006	.008	.199	.209	40.2
55A1831-14-*	14	38	.007	.009	.238	.250	57.8
55A1831-12-*	12	38	.007	.009	.275	.288	81.3
55A1831-10-*	10	38	.008	.010	.326	.349	122.
55A1831-8-*	8	36	.009	.011	.464	.494	234.
55A1831-6-*	6	34	.010	.012	.571	.602	347.
55A1831-4-*	4	34	.014	.016	.728	.764	541.

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C  
 Maximum continuous conductor temperature  
 VOLTAGE RATING: 600 volts (rms) at sea level  
 ACCELERATED AGING: 300 ± 3°C for 7 hours  
 BLOCKING: 200 ± 3°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, 1000 volts (rms)  
 Impulse Dielectric Test, 6.0 kV (peak)

LIFE CYCLE: 200 ± 3°C for 168 hours  
 LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours  
 SHIELD COVERAGE: 85% (minimum)  
 VOLTAGE WITHSTAND (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. Colors shown do not necessarily reflect the sequence of manufacturing.

1/ Example: AWG 20, black, brown and red component wires;  
 white jacket: 55A1831-20-0/1/2-9

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 Corporation 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.

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	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.		

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