

# SPECIFICATION CONTROL DRAWING

**55A1822**

Title

TWO CONDUCTOR CABLE, SHIELDED, JACKETED, 600 VOLT

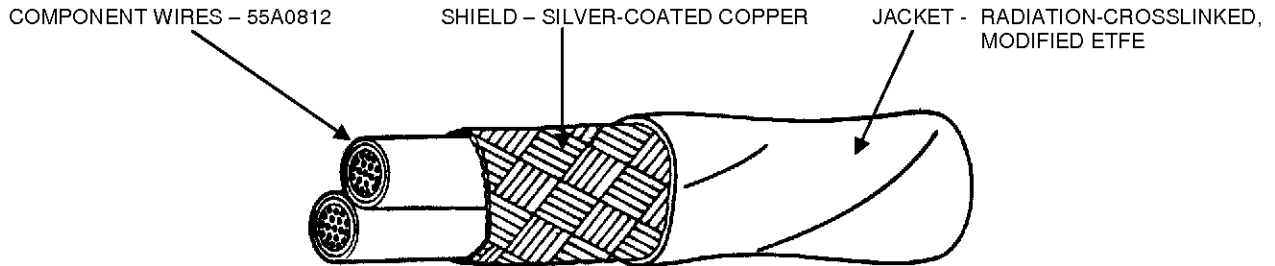
Date

28-Mar-11

Revision

B1

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 (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A1822-26-*	26	38	.006	.008	.113	.119	9.6
55A1822-24-*	24	38	.006	.008	.123	.129	11.4
55A1822-22-*	22	38	.006	.008	.135	.141	14.3
55A1822-20-*	20	38	.006	.008	.151	.158	18.5
55A1822-18-*	18	38	.006	.008	.173	.182	24.8
55A1822-16-*	16	38	.006	.008	.189	.196	29.9
55A1822-14-*	14	38	.007	.009	.225	.234	41.8
55A1822-12-*	12	38	.007	.009	.259	.270	59.2
55A1822-10-*	10	38	.007	.009	.307	.322	87.4
55A1822- 8-*	8	36	.009	.011	.433	.455	160.
55A1822- 6-*	6	36	.010	.012	.527	.553	236.

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°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 inches (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: 230 ± 3°C for 500 hours  
 LOW TEMPERATURE-COLD BEND: -65 ± 2°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.  
 1/ Example: AWG 22, blue and white component wires;  
 white jacket: 55A1822-22-6/9-9

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.*  
 TE Connectivity 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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