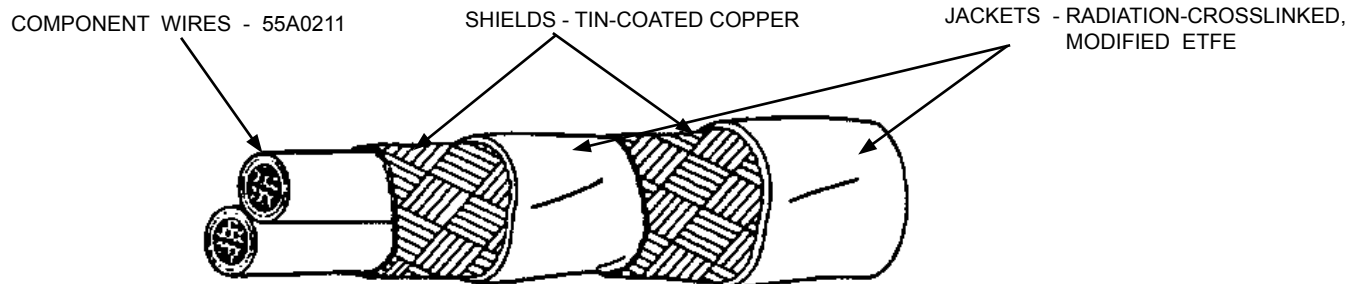


# SPECIFICATION CONTROL DRAWING

**55A6160**

<b>TITLE</b> TWO CONDUCTOR CABLE, DOUBLE SHIELDED, DOUBLE JACKETED, GENERAL PURPOSE, 600 VOLT	<b>Date</b> 6-10-13	<b>Revision</b> D
This specification sheet forms a part of the latest issue of Raychem Specification 55A.		



### CABLE CONSTRUCTION DETAILS

PART NUMBER <i>1/</i>	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	NOMINAL		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
			55A6160-22-*	22		38	.006	.008	38	
55A6160-20-*	20	38	.006	.008	38	.006	.008	.172	.183	28.6
55A6160-18-*	18	38	.006	.008	38	.006	.008	.192	.205	36.3

### 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, conductor to conductor and shield

500 volts (rms), 60 Hz, shield to 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, 1000 volts (rms)

Impulse Dielectric Test, 6.0 kV (peak)

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

Nominal values are not requirements.

**LIFE CYCLE:** 200 ± 3°C for 168 hours

**LOW TEMPERATURE-COLD BEND:** -65 ± 2°C for 4 hours

**SHIELD COVERAGE:** 85% (minimum) (each)

**VOLTAGE WITHSTAND TEST (Post Environmental):**

1000 volts (rms), 60 Hz, 1 minute

**CABLE IDENTIFICATION:** Mark outer jacket surface in green ink at 6 inch (nominal) intervals between marks as follows: " 55A6160-AWG- \*\* "

\*\* = Applicable Manufacturer CAGE code as follows:

06090 = Menlo Park, CA

SU473 = Tijuana, MX

**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 20, red and blue component wires;

white inner jacket and white outer jacket:

55A6160-20-2/6-9-9

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.		