

# SPECIFICATION CONTROL DRAWING

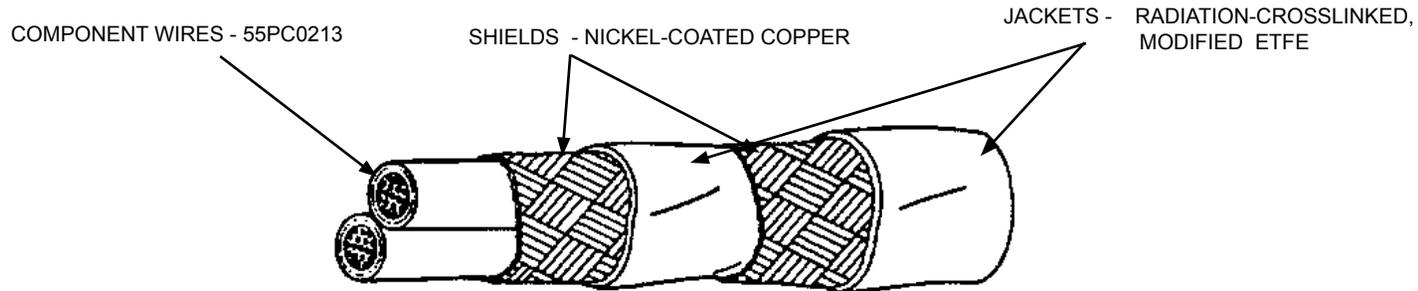
**55PC6310**

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

Date  
2-13-13

Revision  
B

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



### CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	1 <sup>st</sup> SHIELD SIZE (AWG)	1 <sup>st</sup> JACKET THICKNESS ( in. )		2 <sup>nd</sup> SHIELD SIZE (AWG)	2 <sup>nd</sup> JACKET THICKNESS ( in. )		OUTSIDE DIAMETER ( in. )			WEIGHT ( lbs/1000 ft. )	
			LOWER SPEC LIMIT	TARGET WALL		LOWER SPEC LIMIT	TARGET WALL	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC6310-22-*	22	38	.0055	.0070	38	.0055	.0070	.148	.154	.160	20.12	20.84
55PC6310-20-*	20	38	.0055	.0070	38	.0060	.0075	.166	.172	.178	25.22	26.01
55PC6310-18-*	18	38	.0055	.0070	38	.0060	.0075	.185	.191	.197	31.89	32.82
55PC6310-16-*	16	38	.0060	.0075	38	.0060	.0075	.201	.207	.213	37.45	38.46
55PC6310-14-*	14	38	.0060	.0075	38	.0060	.0080	.232	.238	.245	50.30	51.48
55PC6310-12-*	12	38	.0060	.0080	38	.0065	.0085	.271	.278	.285	69.20	70.68
55PC6310-10-*	10	36	.0065	.0085	36	.0070	.0090	.318	.335	.352	108.31	114.50

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.



Raychem Wire & Cable  
501 Oaks Avenue  
Redwood City, CA 94063-3800  
Phone: 1-800-227-8816  
Fax: 1-650-361-6297

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

### TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour

### DIELECTRIC WITHSTAND:

1500 volts (rms), 60 Hz conductor to conductor and shield

500 volts (rms), 60 Hz shield to shield

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, 1000 volts (rms)

Impulse Dielectric Test, 6.0 kV (peak)

### SHIELD COVERAGE:

85% (minimum) (each)

VOLTAGE WITHSTAND (Post Environmental):

1000 volts (rms), 60 Hz, 1 minute

### PART NUMBER:

The "\*" in the part numbers on page 1 shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire color from the inner jacket color and a dash separating the inner jacket color from the outer jacket color.

1/ Example: AWG 22, red and blue component wire; white inner jacket and white outer jacket:  
55PC6310-22-2/6-9-9

1/ See footer section on page 1