

# SPECIFICATION CONTROL DRAWING

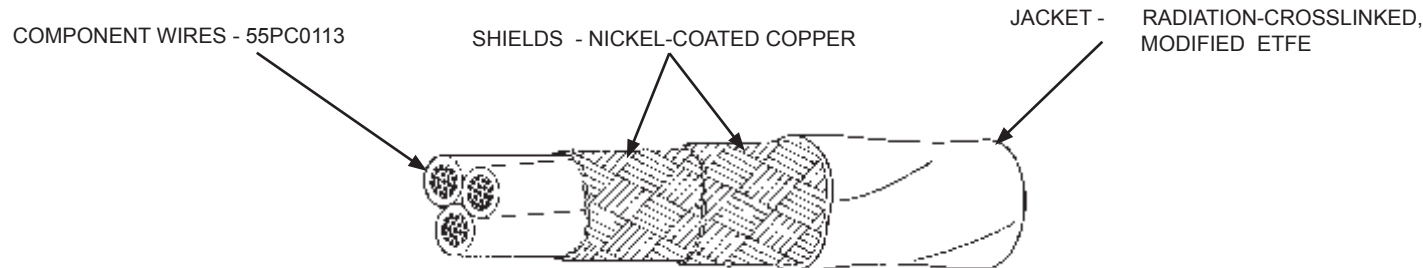
**55PC6303**

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

Date  
10-10-11

Revision  
A

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



CONSTRUCTION DETAILS										
PART NUMBER 1/	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS ( in. )		DIAMETER ( in. )			WEIGHT ( lbs/1000 ft. )	
				LOWER SPEC LIMIT	TARGET WALL	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC6303-22-*	22	38	38	.0060	.0075	.136	.141	.146	20.81	21.46
55PC6303-20-*	20	38	38	.0060	.0075	.153	.158	.163	27.06	27.76
55PC6303-18-*	18	38	38	.0060	.0080	.174	.179	.184	36.12	37.09
55PC6303-16-*	16	38	38	.0060	.0080	.183	.193	.203	42.79	45.21
55PC6303-14-*	14	38	38	.0060	.0080	.214	.225	.236	59.67	62.65
55PC6303-12-*	12	38	38	.0060	.0080	.253	.266	.279	84.96	88.65

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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**55PC6303**

## 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

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)

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 colors from the jacket color. Colors shown do not necessarily reflect the sequence of manufacturing.

1/ Example: AWG 20, red, yellow and blue component wires; white jacket:  
55PC6303-20-2/4/6-9

1/ See footer section on page 1

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