

# SPECIFICATION CONTROL DRAWING

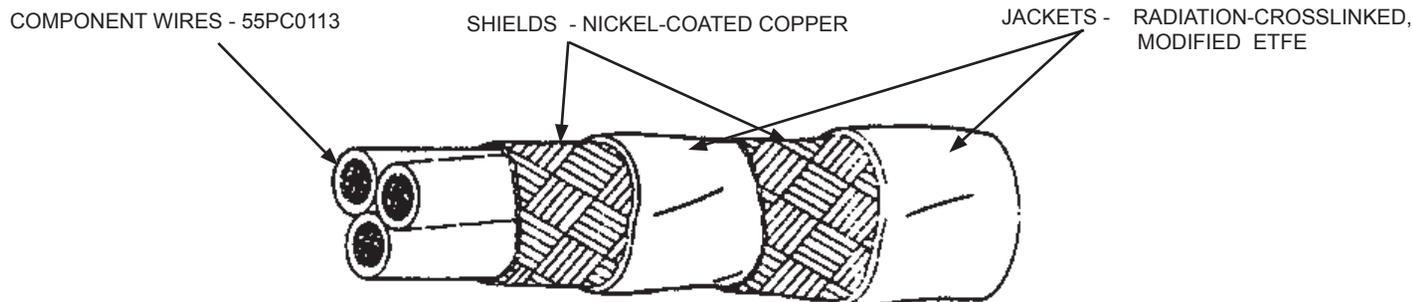
**55PC6120**

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

Date  
7-1-11

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)	1 <sup>st</sup> JACKET THICKNESS ( in. )		OUTER 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
55PC6120-24-*	24	38	.0040	.0050	38	.0080	.0100	.134	.141	.148	20.18	21.91
55PC6120-22-*	22	38	.0040	.0050	38	.0080	.0100	.145	.153	.161	24.67	26.62
55PC6120-20-*	20	38	.0040	.0050	38	.0080	.0100	.163	.171	.179	31.41	33.63
55PC6120-18-*	18	38	.0040	.0050	38	.0080	.0100	.181	.191	.201	40.87	43.74
55PC6120-16-*	16	38	.0040	.0050	38	.0080	.0100	.197	.207	.218	48.44	51.60

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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# SPECIFICATION CONTROL DRAWING

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SCD

**55PC6120**

## 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:

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

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

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) for inner shield

95% (nominal) for outer shield

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 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 22, black, brown and red component wires; white inner jacket and white outer jacket:

55PC6120-22-0/1/2-9-9

1/ See footer section on page 1

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