

SPECIFICATION CONTROL DRAWING

SCD

55PC6171

Title **ONE CONDUCTOR CABLE, DOUBLE SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT**

Date **10-6-15**

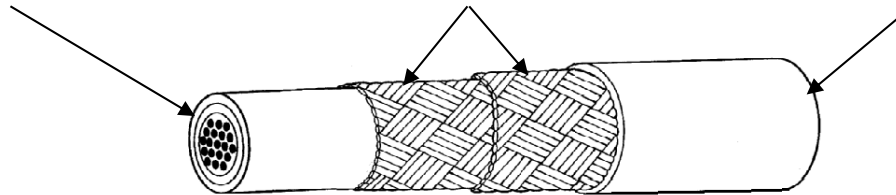
Revision **B**

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

COMPONENT WIRE - 55PC0213

SHIELDS - NICKEL-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE



CABLE CONSTRUCTION DETAILS

PART NUMBER <i>1/</i>	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)		JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)			WEIGHT (lbs/1000 ft.)	
		INNER	OUTER	LOWER SPEC LIMIT	TARGET WALL	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC6171-24-*	24	38	38	.0050	.0060	.083	.087	.091	8.95	9.33
55PC6171-22-*	22	38	38	.0050	.0060	.089	.093	.097	10.56	10.97
55PC6171-20-*	20	38	38	.0050	.0060	.097	.101	.105	13.03	13.47
55PC6171-18-*	18	38	38	.0050	.0060	.107	.111	.115	16.35	16.89
55PC6171-16-*	16	38	38	.0050	.0065	.115	.119	.123	19.13	19.71
55PC6171-14-*	14	38	38	.0050	.0065	.131	.135	.139	25.41	26.13
55PC6171-12-*	12	38	38	.0050	.0065	.148	.153	.158	34.48	35.34
55PC6171-10-*	10	38	38	.0055	.0070	.172	.178	.184	48.87	50.22
55PC6171-8-*	8	38	38	.0070	.0090	.236	.248	.260	82.41	87.55

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 Oakside 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

CROSSLINKED 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/in² (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

1/ PART NUMBER:

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

Example: AWG 22, white component wire; white jacket:
55PC6171-22-9-9