

# SPECIFICATION CONTROL DRAWING

**55PC6346**

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

Date  
1-18-13

Revision  
A

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

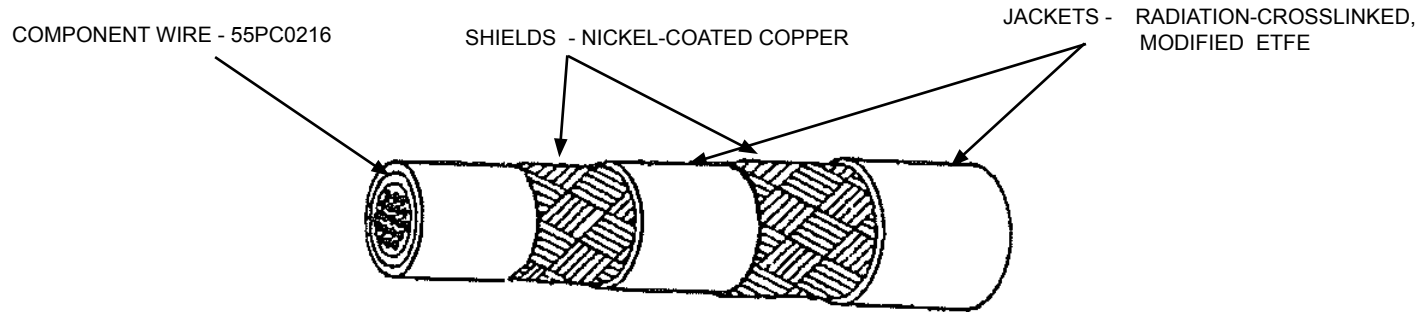


TABLE I. CABLE CONSTRUCTION DETAILS

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
55PC6346-24-*	24	38	.0040	.0050	38	.0080	.0100	.098	.104	.110	11.65	12.72
55PC6346-22-*	22	38	.0040	.0050	38	.0080	.0100	.103	.110	.117	13.03	14.17
55PC6346-20-*	20	38	.0040	.0050	38	.0080	.0100	.110	.118	.126	15.61	16.88
55PC6346-18-*	18	38	.0040	.0050	38	.0080	.0100	.120	.128	.136	19.20	20.71
55PC6346-16-*	16	38	.0040	.0050	38	.0080	.0100	.126	.135	.144	21.95	23.56

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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PART NUMBER <u>1/</u>	TABLE II. MAXIMUM SHIELD DC RESISTANCE (ohm/1000 ft.)	
	1 <sup>st</sup> SHIELD	2 <sup>nd</sup> SHIELD
55PC6346-24-*	17.89	10.38
55PC6346-22-*	18.74	11.07
55PC6346-20-*	15.59	10.01
55PC6346-18-*	13.45	9.35
55PC6346-16-*	11.63	8.49

### 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 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) for 1<sup>st</sup> shield

90% (minimum) for 2<sup>nd</sup> shield

**VOLTAGE WITHSTAND (Post Environmental):**

1500 volts (rms), 60 Hz, 1 minute

**PART NUMBER:**

The "\*" in the part numbers in Tables I and II shall be replaced by color code designators with 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, white component wire; white inner jacket and white outer jacket:  
55PC6346-22-9-9-9

1/ See footer section on page 1