

# SPECIFICATION CONTROL DRAWING

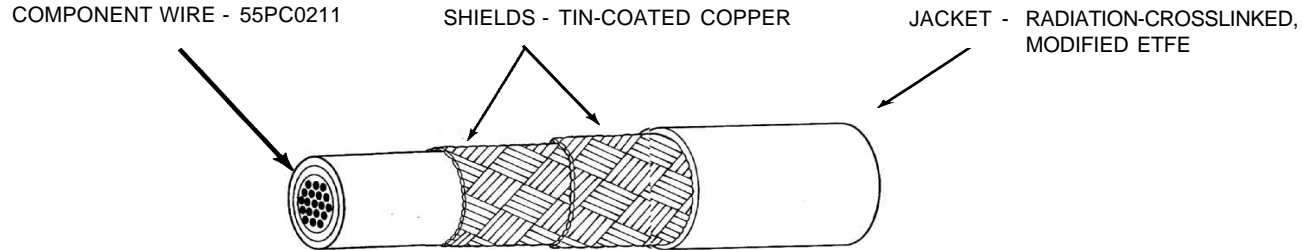
**55PC6277**

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

Date 8-16-06

Revision B

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



### CONSTRUCTION DETAILS

PART NUMBER <i>1/</i>	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	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT
55PC6277-22-*	22	38	38	.0060	.0070	.089	.094	.098	10.15	10.96	12.07
55PC6277-20-*	20	38	38	.0060	.0070	.097	.102	.106	12.59	13.51	14.87
55PC6277-18-*	18	38	38	.0060	.0070	.107	.112	.116	15.81	16.45	17.27
55PC6277-16-*	16	38	38	.0060	.0070	.115	.119	.123	18.55	19.57	21.10
55PC6277-14-*	14	38	38	.0060	.0075	.128	.134	.139	24.69	25.89	27.38
55PC6277-12-*	12	38	38	.0060	.0075	.148	.153	.158	33.30	34.79	36.86
55PC6277-10-*	10	38	38	.0060	.0075	.172	.178	.184	46.70	48.74	50.40

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C  
 Maximum continuous conductor temperature  
 VOLTAGE RATING: 600 volts (rms) at sea level  
 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz  
 CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour  
 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, 2500 volts (rms)  
 Impulse Dielectric Test, 6.0 kV (peak)

SHIELD COVERAGE: 85% (minimum) (each)  
 VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):  
 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:  
 The "\*" in the part numbers above shall be replaced by color code designators with a dash separating the component wire color from the jacket color.  
1/ Example: AWG 24, red component wire; white jacket: 55PC6277-24-2-9

*Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics 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.

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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