

# SPECIFICATION CONTROL DRAWING

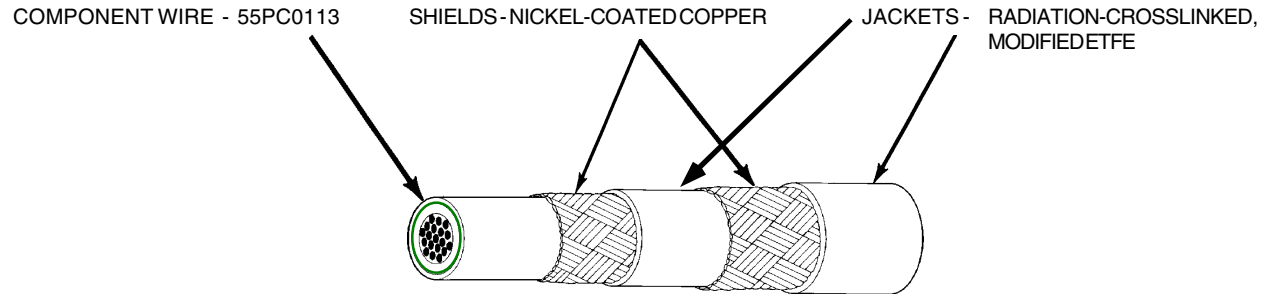
**55PC6159**

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

Date 04-26-00

Revision

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



### CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	1ST SHIELD SIZE (AWG)	1ST JACKET THICKNESS (in.)		2ND SHIELD SIZE (AWG)	2ND JACKET THICKNESS (in.)		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
55PC6159-24-*	24	38	.0040	.0050	38	.0080	.0100	.094	.100	.106	11.00	11.92
55PC6159-22-*	22	38	.0040	.0050	38	.0080	.0100	.100	.106	.112	12.74	13.75
55PC6159-20-*	20	38	.0040	.0050	38	.0080	.0100	.108	.114	.120	15.30	16.43
55PC6159-18-*	18	38	.0040	.0050	38	.0080	.0100	.117	.123	.129	18.79	20.09
55PC6159-16-*	16	38	.0040	.0050	38	.0080	.0100	.125	.131	.137	21.59	23.02

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C  
Maximum continuous conductor temperature  
VOLTAGE RATING: 600 volts (rms)

CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour  
DIELECTRIC WITHSTAND:  
1500 volts (rms), 60 Hz, conductor to conductor & 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), 100% test  
Impulse Dielectric Test, 6.0 kV (peak), 100 % test

SHIELD COVERAGE: 85% (minimum) 1st shield,  
95% (nominal) for 2nd shield  
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 slash separating the component wire colors, 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.  
Example: AWG 22, white component wire; white inner jacket and white outer jacket: 55PC6159-22-9-9-9

COLOR AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

**Raychem**

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