

SPECIFICATION CONTROL DRAWING

55PC6177

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

Date 04-05-01

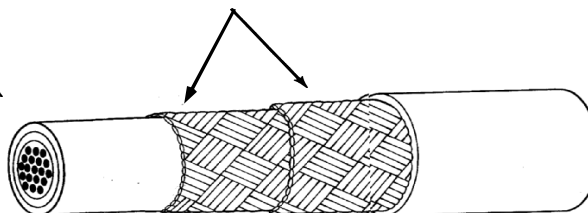
Revision

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

COMPONENT WIRE - 55PC0216

SHIELDS - NICKEL-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED ETFE



CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	INNER SHIELD SIZE (AWG)	OUTER SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		DIAMETER (in.)			WEIGHT (lbs/1000 ft.)	
				LOWERSPEC LIMIT	TARGET WALL	LOWERSPEC LIMIT	TARGET VALUE	UPPERSPEC LIMIT	TARGET VALUE	UPPERSPEC LIMIT
55PC6177-24-*	24	38	38	.0050	.0060	.083	.087	.091	8.95	9.33
55PC6177-22-*	22	38	38	.0050	.0060	.089	.093	.097	10.56	10.97
55PC6177-20-*	20	38	38	.0050	.0060	.097	.101	.105	13.03	13.47
55PC6177-18-*	18	38	38	.0050	.0060	.107	.111	.115	16.35	16.89
55PC6177-16-*	16	38	38	.0050	.0065	.115	.119	.123	19.13	19.71

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

CROSSLINKING PROOF TEST: 300 ± 3°C for 1 hour

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), 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

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.

Example: AWG 24, red component wire;
white jacket: 55PC6177-24-2-9

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

Raychem

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