

SPECIFICATION CONTROL DRAWING

10405

TITLE

SPECIAL PURPOSE POWER CABLE,
DOUBLE-INSULATED, 600 VOLT

Date

9-15-98

Revision

N

This specification sheet forms a part of the latest issue of Raychem Specification WCD 3000.

CONDUCTOR - TIN-COATED COPPER

1ST INSULATION - THERMORAD® F

2ND INSULATION - THERMORAD® F

Thickness:

AWG 8-4

.0375 in. (nominal)

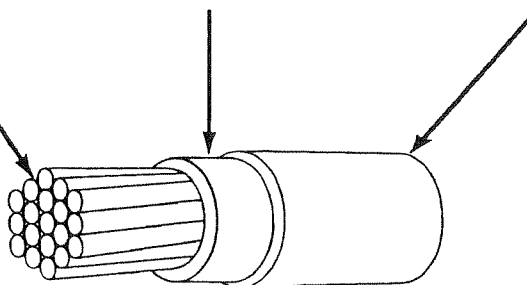
AWG 2-00

.0400 in. (nominal)

250 MCM

.0600 in. (nominal)

Color - Black Preferred



CONSTRUCTION DETAILS

PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	MAXIMUM DIAMETER OF STRANDED CONDUCTOR (in.)	FINISHED WIRE		
				MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft)	DIAMETER (in.)	NOMINAL WEIGHT (lbs/1000 ft)
10405-8-*	8	133 x 29	.176	.701	.280 ± .008	71.3
10405-6-*	6	133 x 27	.218	.445	.324 ± .010	106.
10405-4-*	4	133 x 25	.272	.280	.380 ± .011	162.
10405-2-*	2	665 x 30	.345	.183	.466 ± .014	254.
10405-0-*	0	1045 x 30	.432	.116	.560 ± .017	397.
10405-00-*	00	1330 x 30	.504	.091	.616 ± .018	513.
10405-250-*	250	2499 x 30	.716	.043	.932 ± .028	954.

ADDITIONAL REQUIREMENTS

ACCELERATED AGING: 225°C for 4 hours, outer insulation only, tensile strength and elongation retention 50% (minimum) of original values

CONCENTRICITY: 70% (each layer)

INSULATION (JACKET FLAWS): Spark Test, 3.0 kV (rms), 60 Hz

INSULATION ELONGATION AND TENSILE STRENGTH:

Tensile Strength, 2000 lbf/in² (minimum),

Elongation, 300% (minimum), Each insulation shall be tested individually for Tensile Strength and Elongation.

PART NUMBER: The "*" in the part numbers above shall be replaced with a color code designator. Example: AWG 8, black insulation; 10405-8-0

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

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL

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Mouser Electronics

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