chanhvinh.com

SPECIFICATION SHEET

55A1111

CABLE, ELECTRIC, RADIATION-CROSSLINKED, EXTRUDED, MODIFIED, FLUOROPOLYMER-INSULATED, ONE CONDUCTOR, SHIELDED, JACKETED, LIGHTWEIGHT

150°C

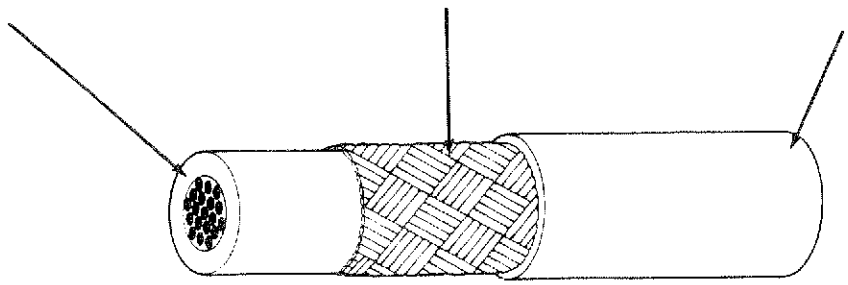
25APR11
Revision A1

The complete requirements for procuring the cable described herein shall consist of this document and the issue in effect of Raychem Specification 55A.

COMPONENT WIRE - 55A0111

SHIELD - TIN-COATED COPPER

JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE



CABLE CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A1111-30-*	30	38	.006	.008	.057	.062	3.4
55A1111-28-*	28	38	.006	.008	.060	.065	3.9
55A1111-26-*	26	38	.006	.008	.065	.070	4.6
55A1111-24-*	24	38	.006	.008	.070	.075	5.5
55A1111-22-*	22	38	.006	.008	.076	.081	6.9
55A1111-20-*	20	38	.006	.008	.084	.089	9.0
55A1111-18-*	18	38	.006	.008	.094	.099	12.0
55A1111-16-*	16	38	.006	.008	.102	.108	14.6
55A1111-14-*	14	38	.006	.008	.119	.125	20.4
55A1111-12-*	12	38	.006	.008	.137	.143	28.5
55A1111-10-*	10	38	.006	.008	.161	.169	42.1
55A1111- 8-*	8	38	.007	.009	.223	.234	74.2

Ⓐ

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
  Maximum continuous conductor temperature
VOLTAGE RATING: 600 volts (rms)
ACCELERATED AGING: 300 ± 3°C for 7 hours
BLOCKING: 200 ± 3°C for 6 hours
DIELECTRIC WITHSTAND: 1500 volts, 60 Hz
FLAMMABILITY:
  Procedure 1, 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue
JACKET COLOR: White preferred
JACKET ELONGATION AND TENSILE STRENGTH:
  Elongation, 50% (minimum)
  Tensile Strength, 5000 psi (minimum)
JACKET FLAWS:
  Spark Test, 1000 volts, 60 Hz (rms), 100% test
  Impulse Dielectric Test, 6.0 kV (peak), 100% test
LIFE CYCLE: 200 ± 3°C for 168 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours
SHIELD COVERAGE: 85% (minimum)
THERMAL SHOCK: 300 ± 3°C for 6 hours
VOLTAGE WITHSTAND TEST: (After Accelerated Aging, Immersion, Life Cycle, Low Temperature-Cold Bend, and Thermal Shock) 1000 volts, 60 Hz, 1 minute

PART NUMBER:
  The "*" in the part numbers above shall be replaced by color code designators in accordance with MIL-STD-681 with a dash separating the component wire color from the jacket color.
  Example:
    AWG 20, white component wire, white jacket:
    55A1111-20-9-9.

NOTE: Nominal values are for information only.
  Nominal values are not requirements.

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.

TE Connectivity
Tyco Electronics Corporation
Raychem Wire and cable
300 Constitution Drive, Menlo Park, California 94025-1165
415) 361 3333 TWX 910 373 1723

© 2011 Tyco Electronics Corporation. All rights reserved.