SPECIFICATION CONTROL DRAWING

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

12-2-91

82A1111

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This specification sheet forms a part of the latest issue of Raychem Specification 80.

COMPONENT WIRE - 82A0111 SHIELD - TIN-COATED COPPER JACKET - RADIATION-CROSSLINKED. MODIFIED FLEXIBLE ETFE

CABLE CONSTRUCTION DETAILS							
PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inches)		OUTSIDE DIAMETER (inches)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
82A1111-28-*	28	38	.005	.007	.060	.065	4.0
82A1111-26-*	26	38	.005	.007	.064	.069	4.7
82A1111-24-*	24	38	.005	.007	.068	.073	5.7
82A1111-22-*	22	38 .	.005	.007	.074	.079	6.9
82A1111-20-*	20	38	.005	.007	.084	.089	8.9
82A1111-18-*	18	38	.006	.008	.097	.102	12.5
82A1111-16-*	16	38	.006	.008	.112	.118	17.1
82A1111-14-*	14	38	.007	.009	.134	.141	25.3
82A1111-12-*	12	38	.008	.010	.158	.166	35.8
82A1111-10-*	10	38	.008	.011	.196	.206	56.7
82A1111- 8-*	8	38	.009	.012	.236	.248	84.7
82A1111- 6-*	6	38	.011	.014	.281	.295	126.
82A1111- 4-*	4	36	.013	.017	.373	.392	208.
82A1111- 2-*	2	36	.014	.019	.444	.466	302.
82A1111- 1-*	1	34	.016	.021	.513	.539	385.
82A1111- 0-*	0	34	.018	.024	.590	.620	491.
82A1111-00-*	00	34	.020	.026	.644	.676	597.

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

* BLOCKING: 150 ± 3°C

CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours 15 in. specimen with sufficent weight to keep straight DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

* FLAMMABILITY: Procedure 1, 3 seconds (maximum);

3 in. (maximum)

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 100% (minimum)

Tensile Strength, 3000 lbf/in2 (minimum)

JACKET FLAWS:

Spark Test, 1500 volts (rms), 60 Hz, 100% test Impulse Dielectric Test, 6.0 kV (peak), 100% test

- * LIFE CYCLE: 200 ± 3°C for 168 hours
- * LOW TEMPERATURE-COLD BEND: -65 ± 3°C
- * SECANT MODULUS: 4.0 X 104 lbf/in2 (maximum), 2 % strain, 2 in. Jaw separation, 0.2 in. / minute, procedural reference ASTM D 882 SHIELD COVERAGE: 85% (minimum) VOLTAGE WITHSTAND (POST ENVIRONMENTAL): 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER

The *** in the part number above shall be replaced by a color code designator with a dash separating the component wire color from the iacket color.

Example: AWG 20, white component wire; white jacket: 82A1111-20-9-9

* Qualification Test

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881

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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