

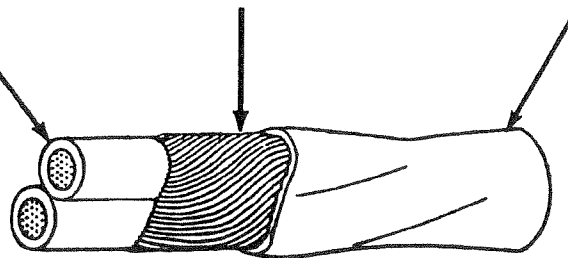
# SPECIFICATION CONTROL DRAWING

82A5121

TITLE TWO CONDUCTOR CABLE, SPIRAL SHIELDED, JACKETED, LIGHTWEIGHT, FLEXIBLE Date 12-9-98 Revision D

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

COMPONENT WIRES - 82A0111 SHIELD - SPIRAL, TIN-COATED COPPER JACKET - RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE



### CONSTRUCTION DETAILS

PART NUMBER	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
82A5121-28-*	28	38	.005	.008	.083	.087	5.7
82A5121-26-*	26	38	.006	.008	.092	.096	7.0
82A5121-24-*	24	38	.006	.009	.100	.105	9.0
82A5121-22-*	22	38	.006	.009	.114	.119	11.5
82A5121-20-*	20	38	.007	.010	.135	.142	15.6
82A5121-18-*	18	38	.007	.011	.159	.167	22.6
82A5121-16-*	16	38	.008	.013	.192	.202	32.4
82A5121-14-*	14	38	.009	.014	.236	.247	49.2
82A5121-12-*	12	38	.011	.016	.284	.298	71.0
82A5121-10-*	10	36	.013	.020	.364	.382	118.
82A5121- 8-*	8	36	.015	.023	.447	.469	179.
82A5121- 6-*	6	34	.018	.027	.540	.567	272.
82A5121- 4-*	4	34	.023	.034	.719	.754	445.

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C  
 Maximum continuous conductor temperature  
 VOLTAGE RATING: 600 volts (rms)  
 CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours  
 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz  
 JACKET COLOR: White preferred  
 JACKET ELONGATION AND TENSILE STRENGTH:  
 Elongation, 100% (minimum)  
 Tensile Strength, 3000 lbf/in<sup>2</sup> (minimum)  
 JACKET FLAWS:  
 Spark Test, 1500 volts (rms), 60 Hz, 100% test  
 Impulse Dielectric Test, 6.0 kV (peak), 100% test

SHIELD COVERAGE: 90% (minimum)  
 VOLTAGE WITHSTAND (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 slashes separating the component wire colors and a dash separating the component wire colors from the jacket color.  
 Example: AWG 20, white and black component wires, white jacket: 82A5121-20-9/0-9

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

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

**Raychem**

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