

# SPECIFICATION CONTROL DRAWING

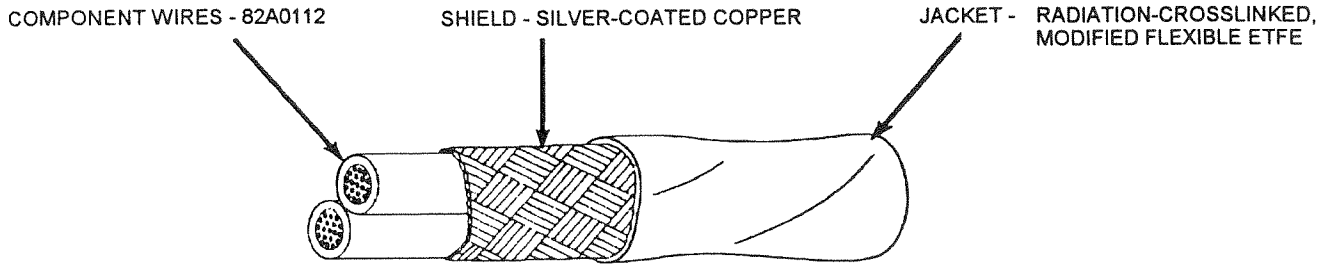
82A1122

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

Date 1-19-96

Revision

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



### 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	
82A1122-26-*	26	38	.006	.009	.101	.106	8.5
82A1122-24-*	24	38	.006	.009	.109	.114	10.5
82A1122-22-*	22	38	.007	.010	.123	.129	13.3
82A1122-20-*	20	38	.007	.011	.145	.152	17.8
82A1122-18-*	18	38	.008	.012	.169	.177	25.1
82A1122-16-*	16	38	.009	.013	.201	.211	35.2

### CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C  
 Maximum continuous conductor temperature  
 VOLTAGE RATING: 600 volts (rms)  
 BLOCKING: 150 ± 3°C for 6 hours  
 CROSSLINKING PROOF TEST: 300 ± 3°C for 1 hour,  
 15 in. specimen with sufficient 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/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

LOW TEMPERATURE-COLD BEND: -65 ± 3°C  
 SECANT MODULUS: 4.0 X 10<sup>4</sup> lbf/in<sup>2</sup> (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 numbers above shall be replaced by a color code designator with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.  
 Example: AWG 20, white and red component wires;  
 white jacket: 82A1122-20-9/2-9

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-881.  
 DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.

## Raychem

Raychem Corporation  
 300 Constitution Drive, Menlo Park, California 94025  
 1-800-2 RAYCHEM FAX: 415-6287