

SPECIFICATION CONTROL DRAWING

82/1822

TITLE

TWO CONDUCTOR CABLE, SHIELDED, JACKETED,
OUTER SPACE, FLEXIBLE, 600 VOLT

Date

11-18-06

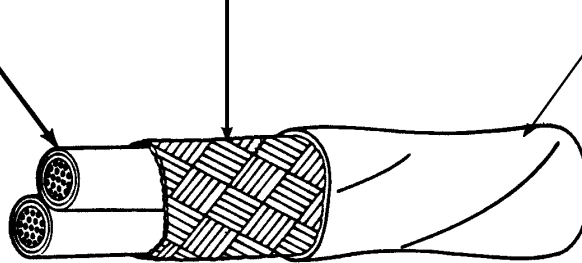
Revision

A

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

COMPONENT WIRE - 82/0812

SHIELD - SILVER-COATED COPPER

JACKET - RADIATION-CROSSLINKED,
MODIFIED FLEXIBLE ETFE

CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lb/1000 ft)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
82/1822-26-*	26	38	.005	.008	.109	.114	9.3
82/1822-24-*	24	38	.006	.009	.123	.129	12.1
82/1822-22-*	22	38	.006	.009	.143	.150	15.8
82/1822-20-*	20	38	.007	.010	.165	.173	20.6
82/1822-18-*	18	38	.007	.011	.191	.201	28.4
82/1822-16-*	16	38	.008	.012	.225	.236	39.2

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

CROSSLINKING PROOF TEST: 300 ± 3°C for 1 hour,

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

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)

Impulse Dielectric Test, 6.0 kV (peak)

RADIATION RESISTANCE (Test per Raychem Spec 55/):

500 megarads

SECANT MODULUS: 4.0 X 10⁴ lbf/in² (maximum),

2 % strain, 2 in. jaw separation, 0.2 in. / minute,

SHIELD COVERAGE: 85% (minimum)

VACUUM STABILITY (Test per ASTM E 595):

Total Mass Loss (TML), 1.00% (maximum)

Volatile Condensable Material (VCM), 0.10% (maximum)

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 a slash separating the

component wire colors and a dash separating the

component wire colors from the jacket color.

1/Example: AWG 20, black and brown component wire;

white jacket: 82/1822-20-0/1-9

*Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.**Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.*

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx"). OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

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.**Raychem** Wire & Cable
501 Oaks Avenue
Redwood City, CA 94063-3800
Phone: 1-800-227-8816
Fax: 1-650-361-6297