

# SPECIFICATION CONTROL DRAWING

SCD

82/4122

Title

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

Date

4-11-14

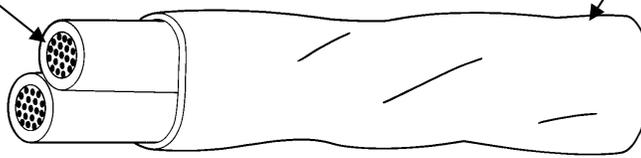
Revision

A

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

COMPONENT WIRES - 82/0112

JACKET - LOW OUTGASSING,  
RADIATION-CROSSLINKED,  
MODIFIED FLEXIBLE ETFE



## CABLE CONSTRUCTION DETAILS

PART NUMBER <sup>1/</sup>	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lbs/1000 ft.)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
82/4122-28-*	28	.005	.008	.074	.079	4.0
82/4122-26-*	26	.005	.008	.082	.087	4.7
82/4122-24-*	24	.005	.008	.090	.095	6.3
82/4122-22-*	22	.006	.009	.104	.109	8.5
82/4122-20-*	20	.007	.010	.126	.132	12.1
82/4122-18-*	18	.007	.011	.150	.158	18.3
82/4122-16-*	16	.008	.012	.182	.191	27.0
82/4122-14-*	14	.009	.014	.226	.237	42.6
82/4122-12-*	12	.011	.016	.274	.288	63.1
82/4122-10-*	10	.013	.019	.352	.370	105.

## 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/in<sup>2</sup> (minimum)

SECANT MODULUS (Test per ASTM D 882):

4.0 x 10<sup>4</sup> lbf/in<sup>2</sup> (maximum),

2% strain, 2 inch jaw separation, 0.2 inch/minute

RADIATION RESISTANCE (Test per Raychem Spec 55/):

500 megarads

VACUUM STABILITY (Test per ASTM E 595):

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

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

<sup>1/</sup> 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.

Example: AWG 20, black and brown component wires;  
white jacket: 82/4122-20-0/1-9

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

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

<sup>1/</sup> 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.

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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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