SPECIFICATION CONTROL DRAWING

SCD **FLDW+6004**

Title: DUAL WALL HOOKUP WIRE, RADIATION-CROSSLINKED, POLYALKENE-INSULATED, 600 VOLT

Date: 8-15-19

Revision: K

The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of Raychem Specification WCD 3106, UL Subject 758, Style 3584, File E303150 and CSA C22.2 No. 210 and carries UL and CSA labels to this effect.

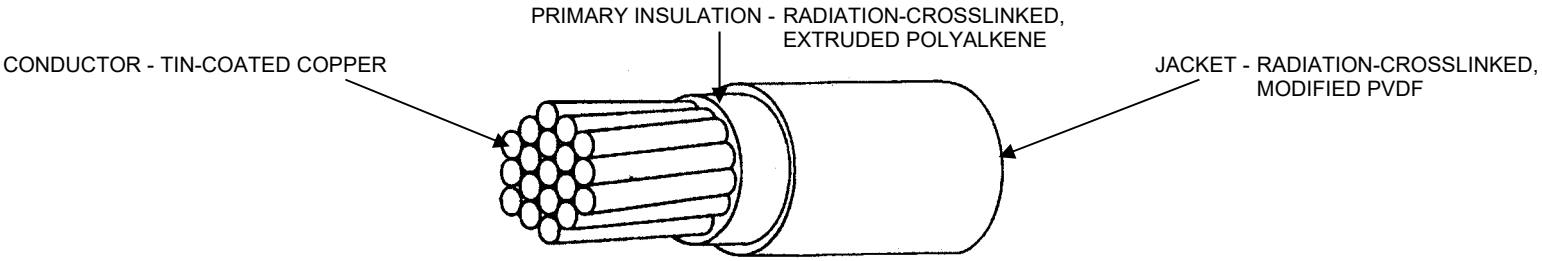

TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG) or (number x SEOD (inch) *(mm)*	NOMINAL CONDUCTOR DIAMETER (inch) *(mm)*	FINISHED WIRE				
				MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) *(ohms/km)*	DIAMETER (inch) *(mm)*			MAXIMUM WEIGHT (lbs/1000 ft.) *(kg/km)*
					MINIMUM	NOMINAL	MAXIMUM	
FLDWC6004-26-*	26	19 x 38	.019 *(.483)*	45.7 *(150.)*	.038 *(.965)*	.040 *(1.02)*	.042 *(1.07)*	1.6 *(2.38)*
FLDWC6004-24-*	24	19 x 36	.024 *(.610)*	28.6 *(93.8)*	.044 *(1.12)*	.046 *(1.17)*	.048 *(1.22)*	2.4 *(3.57)*
FLDWC6004-22-*	22	19 x 34	.030 *(.762)*	18.1 *(59.4)*	.052 *(1.32)*	.054 *(1.37)*	.056 *(1.42)*	3.5 *(5.21)*
FLDWC6004-20-*	20	19 x 32	.038 *(.965)*	11.4 *(37.4)*	.060 *(1.52)*	.062 *(1.57)*	.064 *(1.63)*	5.1 *(7.59)*
FLDWC6004-18-*	18	19 x 30	.047 *(1.19)*	7.14 *(23.4)*	.070 *(1.78)*	.073 *(1.85)*	.076 *(1.93)*	7.7 *(11.5)*
FLDWC6004-14-*	14	19 x .0152 *(.386)*	.073 *(1.85)*	2.79 *(9.15)*	.101 *(2.57)*	.105 *(2.67)*	.109 *(2.77)*	17.1 *(25.4)*
FLDWD6004-12-*	12	37 x .0137 *(.348)*	.092 *(2.34)*	1.76 *(5.77)*	.120 *(3.05)*	.124 *(3.15)*	.128 *(3.25)*	25.1 *(37.4)*

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

1/ COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. 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.

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Redwood City, CA 94063-3800
Phone: 1-800-522-6752
Fax: 1-650-361-6297

TABLE II. PERFORMANCE DETAILS		
PART NUMBER 1/	CROSSLINK VERIFICATION - BEND TESTING	
	MANDREL DIAMETER (inch) *(mm)* (± 3%)	WEIGHT (lb) *(kg)* (± 3%)
FLDWC6004-26-*	.500 *(12.7)*	.375 *(.170)*
FLDWC6004-24-*	.500 *(12.7)*	.375 *(.170)*
FLDWC6004-22-*	.750 *(19.1)*	.375 *(.170)*
FLDWC6004-20-*	.750 *(19.1)*	.500 *(.227)*
FLDWC6004-18-*	1.00 *(25.4)*	.500 *(.227)*
FLDWC6004-14-*	1.50 *(38.1)*	1.00 *(.454)*
FLDWD6004-12-*	2.00 *(50.8)*	1.50 *(.680)*

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING (UL and CSA): 125°C
VOLTAGE RATING: 600 volts (rms) at sea level
CROSSLINK VERIFICATION: 300 ± 3°C for 1 hour
FLAME RATING: VW-1
INSULATION ELONGATION AND TENSILE STRENGTH:
Primary Insulation,
Elongation, 150% (minimum)
Tensile Strength, 2500 lbf/in^2 *(17.2 MPa)* (minimum)
INSULATION FLAWS: Finished Wire, Spark Test, 6.0 kV (rms)
INSULATION THICKNESS (UL):
Primary Insulation,
.004 inch *(.102 mm)* (minimum), .005 inch *(.127 mm)* (minimum average)
Jacket,
.002 inch *(.051 mm)* (minimum)
INSULATION THICKNESS (CSA):
Primary Insulation,
.004 inch *(.102 mm)* (minimum average)
Minimum shall be 80% of average thickness.
Jacket,
.003 inch *(.076 mm)* (minimum average)
Minimum shall be 80% of average thickness.
SHRINKAGE: 125°C for 1 hour, 0.125 in. *(.318 mm)* (maximum) per end
THERMAL STABILITY: 158°C for 168 hours
Elongation Retention, 70% (minimum)
Tensile Strength Retention, 70% (minimum)
VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz, 5 minutes

1/ PART NUMBER:
The "+" in the part number in the upper right hand corner of pages 1 and 2 shall be replaced with a letter designator to define conductor stranding (see part numbers in Tables I and II).
C = 19 Strands D = 37 Strands

The "*" in the part numbers in Tables I and II shall be replaced by a color code designator.
Example: AWG 18, 19 strands, white: FLDWC6004-18-9
AWG 18, 19 strands, white with a black stripe: FLDWC6004-18-90

All spool/reel labels shall include the following: "Reinforced Insulation"

MARKING: Mark outer surface of wire, .051 inches *(1.30 mm)* and larger only, in contrasting ink at 2 ft. *(.610 m)* (maximum) intervals as follows:

" AWM STYLE 3584 600V 125C VW-1 E303150 CSA LL33902
AWM I A 125C 600 V FT1 RAYCHEM xx AWG"

(xx = applicable AWG size)

1/ See footer section on page 1