SPECIFICATION CONTROL DRAWING AUTOMATIC TRANSMISSION CABLE, RADIATION-CROSSLINKED, MODIFIED FLUOROPOLYMER-INSULATED, 600 VOLT AUTOMATIC TRANSMISSION CABLE, REVISION 1-29-15 D

This specification sheet forms a part of the latest issue of Raychem Specification 63.

Title

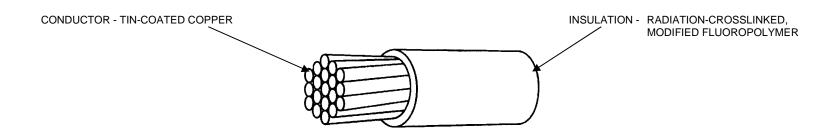


TABLE I. CONSTRUCTION DETAILS										
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER (inch) (mm)		FINISHED CABLE					
					MAXIMUM RESISTANCE	DIAMETER (inch) <i>(mm)</i>			NOMINAL WEIGHT	
			LOWER SPEC LIMIT	UPPER SPEC LIMIT	AT 20°C (ohms/1000 ft.) (ohms/km)	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	(lbs/1000 ft.) (kg/km)	
ATFB0411-20-*	20	7 x 28	.037 (.940)	.039 (.991)	10.2 (33.5)	.0635 (1.61)	.0655 (1.66)	.0675 (1.71)	5.1 <i>(7.59)</i>	
ATFC0411-22-*	22	19 x 34	.029 (.737)	.031 <i>(.787)</i>	16.2 (53.1)	.0555 (1.41)	.0575 (1.46)	.0595 (1.51)	3.7 (5.51)	
ATFC0411-18-*	18	19 x 30	.046 (1.17)	.049 (1.24)	6.23 (20.4)	.0725 (1.84)	.0745 (1.89)	.0765 (1.94)	7.6 (11.3)	
ATFC0411-14-*	14	19 x 27	.065 (1.65)	.069 (1.75)	3.06 (10.0)	.0920 (2.34)	.0940 (2.39)	.0960 (2.44)	13.8 (20.5)	

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.

1/ COLORS SHALL BE IN ACCORDANCE WITH SAE J1128. COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH SPEC 63.
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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SPECIFICATION CONTROL DRAWING

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TABLE II. PERFORMANCE DETAILS									
	HEAT RESISTANCE	E - BEND TESTING	DYNAMIC CUT-THROUGH (lb) <i>(kg)</i> (minimum)						
PART NUMBER	MANDREL DIAMETER	WEIGHT							
1/	(inch) (mm) (± 3%)	(lb) (kg) (± 3%)	INITIAL	AFTER IMMERSION					
ATFB0411-20-*	.750 (19.1)	.500 (.227)	TBD	TBD					
ATFC0411-22-*	.750 (19.1)	.500 (.227)	TBD	TBD					
ATFC0411-18-*	.750 (19.1)	.500 (.227)	TBD	TBD					
ATFC0411-14-*	.750 (19.1)	.500 (.227)	TBD	TBD					

CABLE RATINGS AND ADDITIONAL REQUIREMENTS

VOLTAGE RATING: 600 volts (dc) at sea level

CONCENTRICITY: 70% (minimum)
CROSSLINK PROOF TEST: Per QC/3/117
FLAMMABILITY: 70 seconds (maximum) afterburn
HEAT RESISTANCE: 150 ± 2°C for 1 hour

INSULATION ELONGATION AND TENSILE STRENGTH:

(Pulled at 2 inches (51 mm) per minute)

no cracking, no dielectric breakdown

Elongation, 150% (minimum)

Tensile Strength, 3000 lbf/in² (20.7 N/mm²) (minimum)

INSULATION FLAWS:

Impulse Dielectric Test, 6.0 kV (peak)

INSULATION RESISTANCE:

1000 kohms for 1000 ft. (305 kohms for 1 km) (minimum)

INSULATION THICKNESS:

0.011 inch (.279 mm) (minimum)

0.0126 inch (.320 mm) (minimum average)

LOW TEMPERATURE-COLD BEND: -55 ± 3°C for 4 hours

SHRINKAGE: 0.050 inch (1.27 mm) (maximum) STRIP FORCE: 4.5 lbs (2.04 kg) (minimum)

THERMAL STABILITY: Short Term, 200 ± 3°C for 168 hours

Elongation Retention, 80% (minimum)
Tensile Strength Retention, 80% (minimum)

TRANSMISSION FLUID RESISTANCE: Dexron VI, 150 ± 2°C for 720 hours

Diameter Swell, 5% (maximum)

Mandrel Wrap. 1x diameter mandrel, no dielectric breakdown

Dynamic Cut-Through, see Table II

VOLTAGE WITHSTAND (Post Environmental):

1000 volts (rms), 60 Hz, 1 minute

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 table).

B = 7 Strands C = 19 Strands

The "*" in the part numbers in Tables I and II shall be replaced by a color code designator.

Example: AWG 20, 7 strands, dark blue: ATFB0411-20-6D

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