	SPE	CIF	ICATION		rol i	DRAWIN	G	SC	D	ATF	+0411			
Title	AUTOMATIC TRANSMISSION CABLE, Date RADIATION-CROSSLINKED, MODIFIED FLUOROPOLYMER-INSULATED, 600 VOLT								e 1-29-15	Revision	D			
	This specification sheet forms a part of the latest issue of Raychem Specification 63.													
	CONDUCTOR -	TIN-COA	ATED COPPER						ADIATION-CROSS ODIFIED FLUORO					
					TABLEL CO		TAILS				7			
	TABLE I. CONSTRUCTION DETAILS FINISHED CABLE									-				
PART	PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER (inch) (mm)		MAXIMUM RESISTANCE	MAXIMUM DIAMETER			NOMINAL	1			
				LOWER SPEC LIMIT	UPPER SPEC LIMIT	AT 20°C (ohms/1000 ft.) (ohms/km)	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	WEIGHT (lbs/1000 ft.) <i>(kg/km)</i>				
A	TFB0411-20-*	20	7 x 28	.037 <i>(.940)</i>	.039 (.991)	10.2 (33.5)	.0635 (1.61)	.0655 (1.66)	.0675 (1.71)	5.1 (7.59)	7			
A	TFC0411-22-*	22	19 x 34	.029 (.737)	.031 <i>(.787)</i>	16.2 <i>(</i> 53 <i>.</i> 1 <i>)</i>	.0555 (1.41)	.0575 <i>(1.46)</i>	.0595 (1.51)	3.7 (5.51)				
A	TFC0411-18-*	18	19 x 30	.046 (1.17)	.049 (1.24)	6.23 (20.4)	.0725 <i>(1.84)</i>	.0745 <i>(1.89)</i>	.0765 (1.94)	7.6 (11.3)				
A	TFC0411-14-*	14	19 x 27	.065 (1.65)	.069 <i>(1.75)</i>	3.06 (10.0)	.0920 <i>(2.34)</i>	.0940 <i>(2.39)</i>	.0960 (2.44)	13.8 <i>(20.5)</i>				
			Lisers should eval	uate the suitability	of this product for t	heir application. Specif	ications are subject to	change without notice						
	Tyco Elect		1/ COLORS SHALL BE IN	e right to make char	nges in materials o	r processing, which do	not affect compliance	with any specification,	without notification to B	Buyer.				
	OTHER COL	DES AND SU	JFFIXES MAY BE ADDED	TO THE PART NUN	IBER, AS NECESSA	ARY, TO CAPTURE ANY	ADDITIONAL REQUIRE	EMENTS IMPOSED BY	THE PURCHASE ORDE	R.				
			Dexron, Raychem			Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297								
Page 1 of 2			DIMENSIONS AR THIS SPECIFICATION REFERENCED DOCUME		Redwood City, Phone: 1-800-2									

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TABLE II. PERFORMANCE DETAILS										
	HEAT RESISTANC	E - BEND TESTING	DYNAMIC CUT-THROUGH (lb) <i>(kg)</i> (minimum)							
PART NUMBER	MANDREL DIAMETER	WEIGHT								
<u>1</u> /	(inch) <i>(mm)</i> (± 3%)	(lb) <i>(kg)</i> (± 3%)	INITIAL	AFTER IMMERSION						
ATFB0411-20-*	.750 (19.1)	.500 <i>(.227)</i>	TBD	TBD						
ATFC0411-22-*	.750 (19.1)	.500 <i>(.227)</i>	TBD	TBD						
ATFC0411-18-*	.750 (19.1)	.500 <i>(.</i> 227)	TBD	TBD						
ATFC0411-14-*	.750 (19.1)	.500 <i>(.227)</i>	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 no cracking, no dielectric breakdown INSULATION ELONGATION AND TENSILE STRENGTH: (Pulled at 2 inches (51 mm) per minute) 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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