	SPE	ECIF	ICATION			ORAWIN	G	SCI	J	ATB0	311
	RADIA	ANTI-CAPILLARY TRANSMISSION CABLE, Date RADIATION-CROSSLINKED, MODIFIED FLUOROPOLYMER-INSULATED, 600 VOLT								Revision C	
						of the latest issue of		cation 63.			
	CONDUCTOR ·		ATED COPPER, IE BLOCKED			3)			ADIATION-CROSS ODIFIED FLUORC		
TABLE I. CONSTRUCTION DETAILS											
	PART NUMBER	WIRE SIZE	CONDUCTOR STRANDING (number x	CONDUCTOR DIAMETER (inch) (mm)		MAXIMUM RESISTANCE				NOMINAL	
	<u>1</u> /	(AWG)	SEOD) (inch) <i>(mm)</i>	LOWER SPEC LIMIT	UPPER SPEC LIMIT	AT 20°C (ohms/1000 ft.) <i>(ohms/km)</i>	LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	WEIGHT (lbs/1000 ft.) <i>(kg/km)</i>	
	ATB0311-22-*	22	7 x .0100 <i>(.254)</i>	.028 (.711)	.032 (.813)	16.0 <i>(52.5)</i>	.044 (1.12)	.046 (1.17)	.048 (1.22)	3.0 (4.46)	
	ATB0311-20-*	20	7 x .0126 <i>(.320)</i>	.036 <i>(.914)</i>	.040 (1.02)	10.2 <i>(</i> 33.5 <i>)</i>	.052 (1.32)	.054 (1.37)	.056 <i>(1.42)</i>	4.5 (6.70)	
						heir application. Specif r processing, which do	not affect compliance	with any specification,	without notification to E	Buyer.	
			Doration also reserves the <u>1</u> / COLORS SHALL BE IN JFFIXES MAY BE ADDED							R.	
			1/ COLORS SHALL BE IN JFFIXES MAY BE ADDED	TO THE PART NUN	IBER, AS NECESSA		ADDITIONAL REQUIRE			Raychem Wire & Ca	
Page 1 of	OTHER CO		1/ COLORS SHALL BE IN JFFIXES MAY BE ADDED Dexron, Raycherr	TO THE PART NUM	IBER, AS NECESS/	ARY, TO CAPTURE ANY	ADDITIONAL REQUIRE				4063-38



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TABLE II. PERFORMANCE DETAILS										
	HEAT RESISTANC	E - BEND TESTING	DYNAMIC CUT-THROUGH							
PART NUMBER	MANDREL DIAMETER (inch) (mm) (± 3%)	WEIGHT	(lb) <i>(kg)</i> (minimum)							
<u>1</u> /		(lb) <i>(kg)</i> (± 3%)	INITIAL	AFTER IMMERSION						
ATB0311-22-*	.750 (19.1)	.375 <i>(.170)</i>	TBD	TBD						
ATB0311-20-*	.750 (19.1)	.375 <i>(.170)</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 FLUID TIGHTNESS: No evidence of leakage after 5 minutes of pressurization 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, 5.0 kV (peak) INSULATION RESISTANCE: 1000 kohms for 1000 ft. (305 kohms for 1 km) (minimum) 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 numbers in Tables I and II shall be replaced by a color code designator. Example: AWG 20, dark blue: ATB0311-20-6D