

SPECIFICATION CONTROL DRAWING

SCD

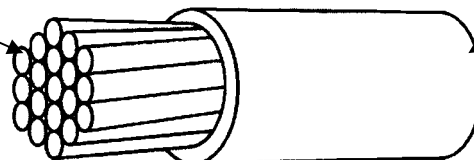
ATF+0311

Title AUTOMATIC TRANSMISSION CABLE,
RADIATION-CROSSLINKED, MODIFIED FLUOROPOLYMER-INSULATED, 600 VOLT
This specification sheet forms a part of the latest issue of Raychem Specification 63.

Date
1-29-15

Revision
H

CONDUCTOR - TIN-COATED COPPER



INSULATION - RADIATION-CROSSLINKED,
MODIFIED FLUOROPOLYMER

TABLE I. CONSTRUCTION DETAILS

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PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	CONDUCTOR DIAMETER (inch) (mm)		MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) (ohms/km)	FINISHED CABLE			NOMINAL WEIGHT (lbs/1000 ft.) (kg/km)
						DIAMETER (inch) (mm)			
			LOWER SPEC LIMIT	UPPER SPEC LIMIT		LOWER SPEC LIMIT	TARGET VALUE	UPPER SPEC LIMIT	
ATFC0311-22-*	22	19 x 34	.029 (.737)	.031 (.787)	16.2 (53.1)	.044 (1.12)	.046 (1.17)	.048 (1.22)	3.0 (4.46)
ATFC0311-20-*	20	19 x 32	.037 (.940)	.039 (.991)	9.88 (32.4)	.052 (1.32)	.054 (1.37)	.056 (1.42)	4.4 (6.55)
ATFC0311-18-*	18	19 x 30	.046 (1.17)	.049 (1.24)	6.23 (20.4)	.061 (1.55)	.063 (1.60)	.065 (1.65)	6.6 (9.82)
ATFC0311-16-*	16	19 x 29	.052 (1.32)	.055 (1.40)	4.81 (15.8)	.066 (1.68)	.069 (1.75)	.072 (1.83)	8.3 (12.4)
ATFC0311-14-*	14	19 x 27	.065 (1.65)	.069 (1.75)	3.06 (10.0)	.083 (2.11)	.086 (2.18)	.089 (2.26)	12.9 (19.2)
ATFD0311-16-*	16	37 x 32	.051 (1.30)	.056 (1.42)	4.98 (16.3)	.067 (1.70)	.070 (1.78)	.073 (1.85)	8.5 (12.6)
ATFD0311-14-*	14	37 x 30	.067 (1.70)	.072 (1.83)	3.11 (10.2)	.089 (2.26)	.093 (2.36)	.097 (2.46)	15.5 (23.1)

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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TABLE II. PERFORMANCE DETAILS

PART NUMBER <u>1/</u>	HEAT RESISTANCE - BEND TESTING		DYNAMIC CUT-THROUGH (lb) (kg) (minimum)	
	MANDREL DIAMETER (inch) (mm) (± 3%)	WEIGHT (lb) (kg) (± 3%)	INITIAL	AFTER IMMERSION
ATFC0311-22-*	.750 (19.1)	.375 (.170)	TBD	TBD
ATFC0311-20-*	.750 (19.1)	.375 (.170)	20 (9.07)	20 (9.07)
ATFC0311-18-*	.750 (19.1)	.375 (.170)	TBD	TBD
ATFC0311-16-*	.750 (19.1)	.375 (.170)	TBD	TBD
ATFC0311-14-*	.750 (19.1)	.375 (.170)	TBD	TBD
ATFD0311-16-*	1.00 (25.4)	.500 (.227)	TBD	TBD
ATFD0311-14-*	1.00 (25.4)	.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

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,

ATFC0311, 14 AWG and smaller, 5.0 kV (peak)

ATFD0311-16, 5.0 kV (peak)

ATFD0311-14, 6.0 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 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).

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 20, 19 strands, dark blue: ATFC0311-20-6D

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9