SPECIFICATION CONTROL DRAWING

44AM111X

TITLE	Date	Revision
ONE CONDUCTOR CABLE, SHIELDED, JACKETED, GENERAL PURPOSE, 600 VOLT	11-21-05	D

This specification sheet forms a part of the latest issue of Raychem Specification 44 and MIL-DTL-27500 as applicable.

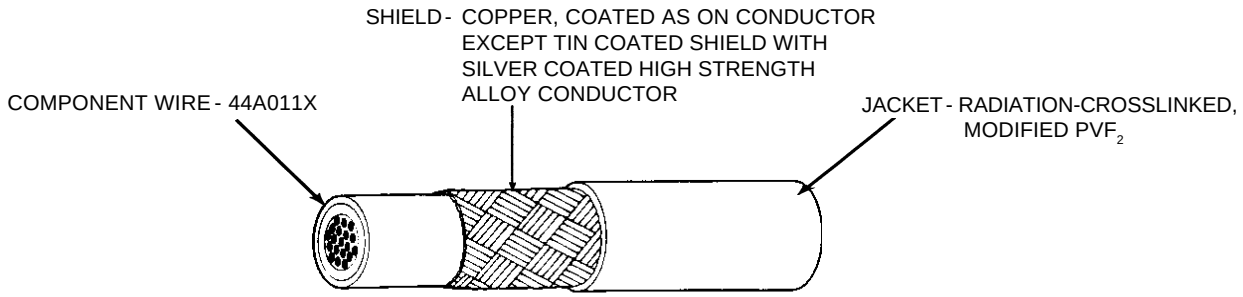

TABLE I. CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	MAXIMUM	NOMINAL	MAXIMUM	
44AM111X-26-*	26	38	.005	.010	.065	.071	4.9
44AM111X-24-*	24	38	.005	.010	.071	.077	6.1
44AM111X-22-*	22	38	.005	.010	.078	.084	7.6
44AM111X-20-*	20	38	.005	.010	.088	.094	9.9
44AM111X-18-*	18	38	.005	.010	.098	.104	13.0
44AM111X-16-*	16	38	.005	.010	.105	.112	15.5
44AM111X-14-*	14	38	.005	.010	.122	.129	21.8
44AM111X-12-*	12	38	.005	.010	.141	.148	31.0

TABLE II. CABLE PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING			
	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)	
	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND	IMMERSION AND CROSSLINKED VERIFICATION	COLD BEND
44AM111X-26-*	3.00	3.00	.125	.750
44AM111X-24-*	3.00	3.00	.188	.750
44AM111X-22-*	3.00	3.00	.188	1.50
44AM111X-20-*	3.00	3.00	.188	1.50
44AM111X-18-*	3.00	3.00	.250	1.50
44AM111X-16-*	3.00	3.00	.250	1.50
44AM111X-14-*	3.00	3.00	.500	4.50
44AM111X-12-*	6.00	6.00	.500	4.50

NOTE: Nominal values are for information only.
Nominal values are not requirements.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.
Tyco Electronics 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 AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx".) 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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CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C
Maximum continuous conductor temperature
VOLTAGE RATING: 600 volts (rms) at sea level
BLOCKING: 150 ± 3°C for 6 hours
CROSSLINKED VERIFICATION: 200 ± 5°C for 6 hours
DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz, 15 seconds (minimum), 30 seconds (maximum)
FLAMMABILITY: 30 seconds (maximum); 3 in. (maximum); no flaming of facial tissue
IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown
JACKET COLOR: White preferred
JACKET CONCENTRICITY: 70% (minimum)
JACKET ELONGATION AND TENSILE STRENGTH:
Elongation, 200% (minimum)
Tensile Strength, 4000 lbf/in² (minimum)
JACKET FLAWS:
Spark Test, 1.5 kV (rms)
Impulse Dielectric Test, 6.0 kV (peak)
LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours
SHIELD COVERAGE: 85% (minimum)
VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL): 1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:
The "X" in the part numbers on page 1 shall be replaced by the applicable conductor material designators as follows:

1 tin coated copper
2 silver coated copper
3 nickel coated copper
4 silver coated high strength copper alloy (AWG's 26 - 16 only)
6 nickel coated high strength copper alloy (AWG's 26 - 20 only)

The "*" in the part numbers on page 1 shall be replaced by color code designators with a dash separating the component wire color from the jacket color.
1/ Example: AWG 24, tin-coated copper, white component wire; white jacket:
44AM1111-24-9-9

1/ See footer section on page 1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:
44AM1111-24-9-9CS2275

Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.

Как с нами связаться

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