400R0111	Revision B		RADIATION-CROSSLINKED, FLUOROPOLYMER Thickness: .003 ± .001 in. (.051 mm min, .102 mm max)			MAXIMUM WEIGHT (lbs/1000 ft.)	(kg/km)	1.4 (2.08)	2.0 (2.98)	3.0 (4.46)	4.5 (6.70)	6.8 (10.1)	8.6 (12.8)		20.2 (30.1)	31.1 (46.3)	n to Buyer.		Raychem Wire & Cable	501 Oakside Avenue Redwood City, CA 94063-3800	0700 000 ,
SCD	Date 3-8-16		- RADIATION- FLUOROPO Thickness:			WIRE TER (mm)	MAXIMUM	.036 (.914)	.042 (1.07)	.049 (1.24)	.057 (1.45)	.067 (1.70)	.075 (1.91)		.112 (2.84)	.133 (3.38)	notice. ation, without notification	S MAY BE SE ORDER.			
		fication WCD 3114	ED,			FINISHED WIRE DIAMETER (inch) (mm)	MINIMUM	.032 (.813)	.038 (.965)	.045 (1.14)	.053 (1.35)	.063 (1.60)	.069 (1.75)		.104 (2.64)	.125 (3.18)	ect to change without rance with any specifica	CODES AND SUFFIXES SED BY THE PURCHAS			
NG ING	RD, 600 VOLT	of Raychem Specif	ON-CROSSLINKE EFIN		V DETAILS	MAXIMUM RESISTANCE AT 20°C	(ohms/km)	41.3 (135.)	26.2 (86.0)	16.2 (53.1)	9.88 (32.4)	6.23 (20.4)	4.81 (15.8)		2.02 (6.63)	1.26 (4.13)	Specifications are subject to not affect compli	MIL-STD-681. OTHER REQUIREMENTS IMPOS	trademarks.	ARE NOMINAL.	
DRAW	ITED FIRE HAZAF	of the latest issue o	PRIMARY INSULATION - RADIATION-CROSSLINKED, POLYOLEFIN		TABLE I. CONSTRUCTION DETAILS		MAXIMUM	.021 (.533)		.033 (.838)	.041 (1.04)	.051 (1.30)	.058 (1.47)		.090 (2.29)	.114 (2.90)	for their application. Salas or processing, which	A ACCORDANCE WITH RE ANY ADDITIONAL R	TE connectivity (logo), and TE (logo) are trademarks.	ERWISE DESIGNATED,	
NTROL	-INSULATED, LIM	heet forms a part o	PRIMARY INSUL		TABLE I.	DIAMETER OF STRANDED CONDUCTOR (inch) (mm)	MINIMUM	.018 (.457)	.023 (.584)	.029 (.737)	.037 (.940)	.046 (1.17)	.052 (1.32)		.084 (2.13)	.106 (2.69)	uitability of this product nake changes in materi	GNATORS SHALL BE IN ECESSARY, TO CAPTU		ES AND, UNLESS OTH	
SPECIFICATION CONTROL DRAWING	WIRE, RADIATION-CROSSLINKED, POLYOLEFIN-INSULATED, LIMITED FIRE HAZARD, 600 VOLT	This specification sheet forms a part of the latest issue of Raychem Specification WCD 3114.	OPPER			CONDUCTOR STRANDING (number x AWG)	1	19 x 38	19 x 36	19 x 34	19 x 32	19 x 30	19 x 29	19 x 27	37 x 28	37 × 26	Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyoo 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 AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER	Raychem, TE Connectivity,	DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL	
FIC/	CROSSLIN		ООАТЕР С			WIRE SIZE (AWG)		26	24	22	20	18	16	14	12	10	Us Corporation a	1/ COLORS ADDED TO			
SPECI	VIRE, RADIATION-(CONDUCTOR - TIN-COATED COPPER			PART NUMBER $rac{1}{4}$		400R0111-26-*	400R0111-24-*	400R0111-22-*	400R0111-20-*	400R0111-18-*	400R0111-16-*	400R0111-14-*	400R0111-12-*	400R0111-10-*	Tyco Electronics (
	Title		8	·				1						ı						Page 1 of 2	



SPECIFICATION CONTROL DRAWING

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	TABLE II. F	TABLE II. PERFORMANCE DETAILS	ETAILS	
		BEND TESTING	ESTING	
PART NUMBER 1/	MANDREL DIAMETER (inch) (mm) (± 3%)	METER (± 3%)	WEIGHT (lb) (kg) (±3%)	ا : 3%)
	ACCELERATED AGING	COLD BEND	ACCELERATED AGING	COLD
400R0111-26-*	.500 (12.7)	.500 (12.7)	.250 (.113)	.500 (.227)
400R0111-24-*	.500 (12.7)	.500 (12.7)	.375 (.170)	.500 (.227)
400R0111-22-*	(1.61) 057.	.750 (19.1)	.375 (.170)	1.00 (.454)
400R0111-20-*	(1.61) 057.	.750 (19.1)	.375 (.170)	1.00 (.454)
400R0111-18-*	1.00 (25.4)	1.00 (25.4)	.500 (.227)	1.00 (.454)
400R0111-16-*	1.00 (25.4)	1.00 (25.4)	.500 (.227)	1.00 (.454)
400R0111-14-*	1.50 (38.1)	1.50 (38.1)	1.00 (.454)	3.00 (1.36)
400R0111-12-*	2.00 (50.8)	2.00 (50.8)	1.00 (.454)	3.00 (1.36)
400R0111-10-*	2.50 (63.5)	2.50 (63.5)	1.00 (.454)	3.00 (1.36)

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 125°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level ACCELERATED AGING: $300 \pm 2^{\circ}$ C for 6 hours

Identification legibility, 225 ± 2°C for 6 hours

BLOCKING: 150 ± 2°C for 24 hours

COLOR: White preferred

FLAMMABILITY: Char Length, 5 ft. (1.5 m) (maximum) HUMIDITY RESISTANCE: Insulation Resistance,

5000 megohms for 1000 ft. (1524 megohms for 1 km) (minimum) INSULATION ELONGATION AND TENSILE STRENGTH:

Primary Insulation,

Elongation, 150% (minimum)

Tensile Strength, 2500 lbf/in2 (17.2 MPa) (minimum)

INSULATION FLAWS:

Primary Insulation,

Spark Test, 1.5 kV (rms)

Impulse Dielectric Test, 6.0 kV (peak)

Spark Test, 3.0 kV (rms) at 3 kHz

Finished Wire,

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION RESISTANCE:

5000 megohms for 1000 ft. (1524 megohms for 1 km) (minimum)

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

SHRINKAGE: 300 ± 2°C, 0.125 in. (3.18 mm) (maximum) in 12 inches (305 mm)

SMOKE RELEASE:

Peak Smoke Release Rate, 0.40 m²/s (maximum)

Total Smoke Release, 150 m² (maximum)

SMOKE TEST: D4, 50 (maximum); Dm, 300 (maximum) TOXICITY: HCN: 100 ppm (maximum)

SO2: 100 ppm (maximum)

CO: 3500 ppm (maximum) HF: 100 ppm (maximum) NO: 100 ppm (maximum) HCI: 500 ppm (maximum) VOLTAGE WITHSTAND (Post Environmental): 2500 volts (rms), 60 Hz, 5 minutes

1/ PART NUMBER:

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

Example: AWG 20, white: 400R0111-20-9

PRODUCT IDENTIFICATION:

AWG 20, white with a black stripe: 400R0111-20-90

(xx = applicable AWG size) Outer surface of wire shall be marked in contrasting color as follows: $"RAYCHEM\ 400R0111-xx\ - 600V\ Yr\ of\ Mfg"\ (xx = applicable\ AV$

1/ See footer section on page 1