

SPECIFICATION CONTROL DRAWING

SCD **SHF260-0113**

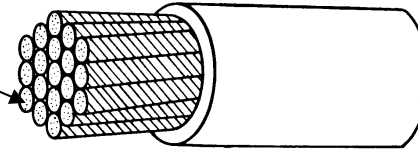
Title **WIRE, MODIFIED PERFLUOROALKOXY COPOLYMER RESIN-INSULATED, 1000 VOLT**

Date **7-10-17**

Revision **K**

This specification sheet forms a part of the latest issue of Raychem Specification WCD 3111.

CONDUCTOR - NICKEL-COATED COPPER



INSULATION - MODIFIED PFA

TABLE I. CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch) (mm)		MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) (ohms/km)	FINISHED WIRE			NOMINAL WEIGHT (lbs/1000 ft.) (kg/km)
			MINIMUM	MAXIMUM		DIAMETER (inch) (mm)			
						MINIMUM	NOMINAL	MAXIMUM	
SHF260-0113-24-*	24	105 x 44	.023 (.584)	.027 (.686)	30.6 (100.)	.050 (1.27)	.053 (1.35)	.056 (1.42)	3.10 (4.61)
SHF260-0113-22-*	22	154 x 44	.029 (.737)	.033 (.838)	21.9 (71.8)	.058 (1.47)	.061 (1.55)	.064 (1.63)	4.23 (6.29)
SHF260-0113-20-*	20	154 x 42	.037 (.940)	.043 (1.09)	13.3 (43.6)	.069 (1.75)	.072 (1.83)	.075 (1.91)	5.96 (8.87)
SHF260-0113-18-*	18	259 x 42	.047 (1.19)	.053 (1.35)	8.67 (28.4)	.079 (2.01)	.082 (2.08)	.085 (2.16)	8.58 (12.8)
SHF260-0113-16-*	16	259 x 40	.061 (1.55)	.067 (1.70)	5.10 (16.7)	.093 (2.36)	.096 (2.44)	.099 (2.51)	12.2 (18.2)
SHF260-0113-14-*	14	665 x 42	.078 (1.98)	.086 (2.18)	3.32 (10.9)	.112 (2.84)	.116 (2.95)	.120 (3.05)	19.1 (28.4)
SHF260-0113-12-*	12	665 x 40	.096 (2.44)	.106 (2.69)	1.99 (6.53)	.131 (3.33)	.137 (3.48)	.143 (3.63)	27.3 (40.6)
SHF260-0113-10-*	10	665 x 38	.126 (3.20)	.140 (3.56)	1.14 (3.74)	.163 (4.14)	.171 (4.34)	.179 (4.55)	44.7 (66.5)
SHF260-0113-8-*	8	665 x 36	.157 (3.99)	.173 (4.39)	.714 (2.34)	.195 (4.95)	.205 (5.21)	.215 (5.46)	67.7 (101.)
SHF260-0113-6-*	6	1045 x 36	.192 (4.88)	.208 (5.28)	.490 (1.61)	.231 (5.87)	.242 (6.15)	.253 (6.43)	102. (152.)
SHF260-0113-4-*	4	1665 x 36	.265 (6.73)	.285 (7.24)	.326 (1.07)	.310 (7.87)	.323 (8.20)	.336 (8.53)	168. (250.)
SHF260-0113-2-*	2	1665 x 34	.325 (8.26)	.345 (8.76)	.193 (.633)	.373 (9.47)	.387 (9.83)	.401 (10.2)	250. (372.)
SHF260-0113-1-*	1	2109 x 34	.370 (9.40)	.400 (10.2)	.163 (.535)	.426 (10.8)	.441 (11.2)	.456 (11.6)	308. (458.)
SHF260-0113-0-*	0	2660 x 34	.435 (11.0)	.465 (11.8)	.133 (.436)	.494 (12.5)	.510 (13.0)	.526 (13.4)	395. (588.)
SHF260-0113-00-*	00	3325 x 34	.485 (12.3)	.515 (13.1)	.102 (.335)	.546 (13.9)	.564 (14.3)	.582 (14.8)	491. (731.)
SHF260-0113-000-*	000	4123 x 34	.540 (13.7)	.575 (14.6)	.073 (.240)	.606 (15.4)	.626 (15.9)	.646 (16.4)	604. (899.)
SHF260-0113-0000-*	0000	5320 x 34	.615 (15.6)	.655 (16.6)	.057 (.187)	.685 (17.4)	.707 (18.0)	.729 (18.5)	774. (1152.)

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.
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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.

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THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
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SPECIFICATION CONTROL DRAWING

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Revision

K

SCD

SHF260-0113

TABLE II. PERFORMANCE DETAILS

PART NUMBER 1/	BEND TESTING					
	MANDREL DIAMETER (inch) (mm) (± 3%)			WEIGHT (lb) (kg) (± 3%)		
	LIFE CYCLE	MINIMUM BEND RADIUS	WRAP TEST	COLD BEND	LIFE CYCLE	COLD BEND
SHF260-0113-24-*	.500 (12.7)	.500 (12.7)	.500 (12.7)	1.00 (25.4)	1.50 (.680)	3.00 (1.36)
SHF260-0113-22-*	.500 (12.7)	.750 (19.1)	.750 (19.1)	1.00 (25.4)	2.00 (.907)	3.00 (1.36)
SHF260-0113-20-*	.500 (12.7)	.750 (19.1)	.750 (19.1)	1.00 (25.4)	3.00 (1.36)	4.00 (1.81)
SHF260-0113-18-*	.750 (19.1)	1.00 (25.4)	1.00 (25.4)	1.50 (38.1)	4.00 (1.81)	4.00 (1.81)
SHF260-0113-16-*	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.50 (38.1)	4.00 (1.81)	5.00 (2.27)
SHF260-0113-14-*	1.00 (25.4)	1.25 (31.8)	1.25 (31.8)	2.00 (50.8)	6.00 (2.72)	5.00 (2.27)
SHF260-0113-12-*	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	2.00 (50.8)	6.00 (2.72)	5.00 (2.27)
SHF260-0113-10-*	2.00 (50.8)	2.00 (50.8)	2.00 (50.8)	3.00 (76.2)	6.00 (2.72)	5.00 (2.27)
SHF260-0113-8-*	3.00 (76.2)	2.25 (57.2)	2.25 (57.2)	4.00 (102.)	8.00 (3.63)	6.00 (2.72)
SHF260-0113-6-*	4.00 (102.)	2.75 (69.9)	2.75 (69.9)	5.00 (127.)	8.00 (3.63)	10.0 (4.54)
SHF260-0113-4-*	5.00 (127.)	3.75 (95.3)	3.75 (95.3)	6.00 (152.)	8.00 (3.63)	10.0 (4.54)
SHF260-0113-2-*	6.00 (152.)	4.50 (114.)	4.50 (114.)	8.00 (203.)	12.0 (5.44)	15.0 (6.80)
SHF260-0113-1-*	8.00 (203.)	5.00 (127.)	5.00 (127.)	10.0 (254.)	12.0 (5.44)	15.0 (6.80)
SHF260-0113-0-*	8.00 (203.)	6.00 (152.)	6.00 (152.)	10.0 (254.)	12.0 (5.44)	15.0 (6.80)
SHF260-0113-00-*	10.0 (254.)	6.00 (152.)	6.00 (152.)	12.0 (305.)	16.0 (7.26)	20.0 (9.07)
SHF260-0113-000-*	10.0 (254.)	7.50 (191.)	7.50 (191.)	12.0 (305.)	16.0 (7.26)	20.0 (9.07)
SHF260-0113-0000-*	10.0 (254.)	8.00 (203.)	8.00 (203.)	12.0 (305.)	16.0 (7.26)	20.0 (9.07)

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 260°C for 10,000 hours

VOLTAGE RATING: 1000 volts (rms) at sea level

COLOR: White preferred

CONCENTRICITY: 70% (minimum)

INSULATION ELONGATION AND TENSILE STRENGTH:

Elongation, 150% (minimum)

Tensile Strength, 2000 lbf/in² (13.8 N/mm²) (minimum)

INSULATION FLAWS:

Spark Test, 6.0 kV (rms)

Impulse Dielectric Test, 8.0 kV (peak)

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

SHRINKAGE: 290 ± 2°C for 6 hours,

AWG 24-00: 0.125 in. (3.18 mm) (maximum) in 12 inches (305 mm)

AWG 000-0000: 0.250 in. (6.35 mm) (maximum) in 12 inches (305 mm)

SMOKE TEST (Qualification):

Per WCD 3111, no visible smoke

Per SAE AS4373, Method 803 (Flaming Mode only),

0.02 Ds (nominal) after 16 minutes

THERMAL SHOCK RESISTANCE: 260 ± 2°C,

AWG 24-12: 0.060 in. (1.52 mm) (maximum)

AWG 10-8: 0.100 in. (2.54 mm) (maximum)

AWG 6-00: 0.125 in. (3.18 mm) (maximum)

AWG 000-0000: 0.250 in. (6.35 mm) (maximum)

UV LASER MARKING (Per SAE AS4373, Method 1001):

AWG 24-2, white (-9) wire only:

Solid Laser, 50% (minimum)

Dot Matrix Laser, 50% (minimum)

VOLTAGE WITHSTAND (Post Environmental): 3000 volts (rms)

WRAP TEST: 290 ± 2°C for 2 hours

1/ PART NUMBER:

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

Example: AWG 0, white: SHF260-0113-0-9

1/ See footer section on page 1

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