TITL C

CABLE, ELECTRIC, FILTER LINE - ELECTROLOSS, COMPONENT WIRE

Date 7-23-10

Revision

This specification sheet forms a part of the latest issue of Raychem Specification 55F.

CONDUCTOR - TIN-COATED COPPER FILTER LAYER - RADIATION-MODIFIED, ABSORPTIVE COMPOUND

PRIMARY INSULATION - RADIATION-CROSSLINKED, MODIFIED PVDF COLOR - NATURAL PRIMARY JACKET - RADIATION-CROSSLINKED, MODIFIED ETFE

TABLE I. CONSTRUCTION DETAILS								
PART NUMBER 1/	SIZE	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE			
					MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT	
			MINIMUM	MAXIMUM	(ohms/1000 ft)	, <i>,</i>	(lbs/1000 ft.)	
55FA0511-22-*	22	19 x 34	.029	.033	16.2	.051 ± .003	4.0	
55FA0511-20-*	20	19 x 32	.037	.041	9.88	.059 ± .003	5.8	
55FA0511-18-*	18	19 x 30	.046	.051	6.23	.070 ± .003	8.7	
55FA0511-16-*	16	19 x 29	.052	.058	4.81	.078 ± .004	11.2	
55FA0511-14-*	14	19 x 27	.065	.073	3.06	.095 ± .004	16.1	
55FA0511-12-*	12	37 x 28	.084	.090	2.02	.112 ± .004	24.0	
55FA0511-10-*	10	37 x 26	.106	.114	1.26	.136 ± .005	37.0	

TABLE II. PERFORMANCE DETAILS							
	BEND TESTING						
PART NUMBER	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)				
1/	IMMERSION, LIFE CYCLE AND CROSSLINKING PROOF TEST COLD BEND CROSSLINKING PROOF TEST COLD LIFE CYCLE AND CROSSLINKING PROOF TEST 2.00 750	COLD BEND					
55FA0511-22-*	.500	2.00	.750	3.00			
55FA0511-20-*	.750	2.50	1.25	4.00			
55FA0511-18-*	1.00	3.00	1.75	4.00			
55FA0511-16-*	1.00	3.00	2.00	5.00			
55FA0511-14-*	1.00	5.00	2.00	5.00			
55FA0511-12-*	1.50	6.00	2.50	5.00			
55FA0511-10-*	1.50	8.00	2.50	5.00			

This product meets or exceeds all requirements of SAE AS85485/9, less identification, for AWG's 22-10. All other AWG sizes meet or exceed requirements of SAE AS85485, less identification.

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. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER. AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.					
Page 1 of 3	The TE logo, Tyco Electronics, Electroloss and Raychem are trademarks.		Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297		
	DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL	≅ _{Tyco}			
	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.	Electronics			

Tyco Electronics

SPECIFICATION CONTROL DRAWING

Page 2 of 3

Revision J SCD Number

55FA0511

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level ATTENUATION (INSERTION LOSS): See Table III

BLOCKING: 200 ± 3°C for 6 hours COLOR: Light violet preferred

CONCENTRICITY: Primary Insulation - 50% (minimum); Finished Wire - 70% (minimum)

CROSSLINKING PROOF TEST: 300 ± 3°C for 7 hours

FLAMMABILITY: 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue

FLUORIDE EXTRACTION: 70 ± 2°C for 168 hours, 150 ppm (maximum)

HUMIDITY RESISTANCE: Insulation Resistance, 5000 meghoms for 1000 ft. (minimum)

IDENTIFICATION AND COLOR STRIPING DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight

IMMERSION: Diameter increase 5% (maximum); no cracking, no dielectric breakdown

INSULATION ELONGATION AND TENSILE STRENGTH:

Primary Insulation, Filter Layer and Primary Jacket pulled together

Elongation, 50% (minimum)

Tensile Strength, 3000 lbf/in² (minimum)

INSULATION FLAWS:

Primary Insulation only,

Spark Test, 1.5 kV (rms) at 60 Hz

4.2 kV (rms) at 3 kHz

Impulse Dielectric Test, 6.0 kV (peak)

Finished Wire,

Spark Test, 3.0 kV (rms) at 60 Hz

5.7 kV (rms) at 3 kHz

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION RESISTANCE: 5000 megohms for 1000 ft. (minimum)

INSULATION THICKNESS:

Primary Insulation, .002 in. (minimum);

Filter Layer, average .0025 in. (minimum);

Primary Jacket, .0035 in. (minimum)

LIFE CYCLE: 200 ± 3°C for 168 hours

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

SHRINKAGE: 200 ± 3°C for 6 hours, 0.125 in. (maximum)

SMOKE: 200 ± 2°C, no visible smoke

SURFACE RESISTANCE: 500 meghoms-in. (minimum), initial and final readings

THERMAL SHOCK RESISTANCE: 150 ± 3°C, .060 in. (maximum)

THERMAL STABILITY: 180 ± 3°C for 1250 hours

VOLTAGE WITHSTAND (Post Environmental): 1500 volts (rms), 60 Hz

WRAP TEST: 200 ± 3°C for 6 hours, no cracking

PART NUMBER:

The "*" in the part numbers in Tables I-III shall be replaced by a color code designator, except that violet shall be light violet and designator shall be 7L.

1/ Example: AWG 20, light violet: 55FA0511-20-7L

AWG 20, light violet with blue stripe: 55FA0511-20-7L6

1/ See footer section on page 1



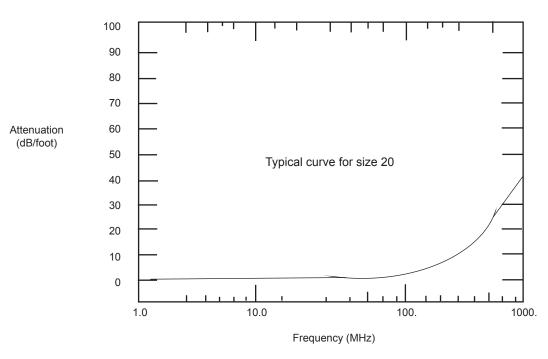
SPECIFICATION CONTROL DRAWING

Page 3 of 3

Revision J

SCD Number

55FA0511



ATTENUATION (INSERTION LOSS)

TABLE III. ATTENUATION (INSERTION LOSS) +							
PART NUMBER 1/	PASS BAND (dB/ft.)			TRANSITION BAND (dB/ft.)			STOP BAND (dB/ft.)
	1.0 MHz	10.0 MHz		100 MHz	500 MHz	1000 MHz	1 to 12 GHz
	(max)	(min)	(max)	(min)	(min)	(min)	(min)
55FA0511-22-*	.02	.06	0.20	1.3	12	30	30
55FA0511-20-*	.02	.06	0.20	1.3	12	30	30
55FA0511-18-*	.02	.06	0.20	1.3	13	33	33
55FA0511-16-*	.02	.06	0.20	1.3	13	33	33
55FA0511-14-*	.02	.06	0.20	1.3	13	33	33
55FA0511-12-*	.02	.04	0.20	1.3	12	30	30
55FA0511-10-*	.02	.04	0.20	1.3	12	30	30

1/ See footer section on page 1

+ THE PRIMARY WIRE OF THIS SPECIFICATION SHEET SHALL MEET THE ATTENUATION REQUIREMENTS SHOWN ABOVE ONLY WHEN USED AS A SINGLE COMPONENT IN A SHIELDED CABLE.

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)