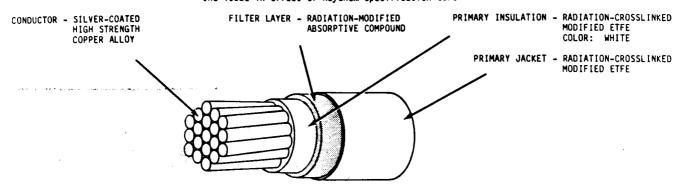
CABLE, ELECTRIC, FILTER LINE - ELECTROLOSS" COMPONENT WIRE

150°C

4 December 1985

Page 1 of 2 Revision J

The complete requirements for testing the wire described herein shall consist of this document and the issue in effect of Raychem Specification 55F.



		TA	BLE I. C	ONSTRUCTIO	N DETAILS			
			DIAMETER OF STRANDED CONDUCTOR (in.)		FINISHED WIRE			
PART NUMBER	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)			MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT (16/1000 ft)	
			MINIMUM	MAXIMUM	(Ω/1000 ft)		(10/1000 10)	
55FA0414-26-*	26	19 x 38	.018	.020	44.8	.050 ± .003	3.1	
55FA0414-24-*	24	19 x 36	.023	.025	28.4	.052 ± .002	3.6	

	TABLE	II. PERFORMANCE DE			
			D TESTING		
PART NUMBER	MANDREL	DIAMETER	WEIGHT		
	(in.)	(±3%)	(1b)	(±3%)	
	LIFE CYCLE		LIFE CYCLE		
	IMMERSION AND	COLD	IMMERSION AND	COLD	
	CROSSLINKING	BEND	CROSSLINKING	BEND	
	PROOF TEST		PROOF TEST		
55FA0414-26-*	.500	1.00	.500	3.00	
55FA0414-24-*	.500	1.00	.625	3.00	

## 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 Page 2 BLOCKING: 200 ± 3°C for 6 hours BLOCKING: 200 ± 3°C for 6 hours
COLOR: Light violet preferred
10 OR STRIPING DURABILITY: 125 cycles
250 strokes)(minimum), 500 g weight
NCENTRICITY: Primary Insulation - 50% (minimum);
Finished Wire - 70% (minimum)
CROSSLINKING PROOF TEST (ACCELERATED AGING):
300 ± 3°C for 7 hours
FLAMMABILITY: 3 seconds (maximum);
3 in (maximum): no flaming of facial tissue 3 in. (maximum); no flaming of facial tissue
HUMIDITY RESISTANCE: Insulation Resistance,
5000 MΩ for 1000 ft (minimum)
IDENTIFICATION DURABILITY: 125 cycles (250 strokes) (minimum), 500 g weight

!MMERSION: 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 psi (minimum)
INSULATION FLAWS: Primary Insulation only
Spark Test, 2.5 kV (rms), 60 Hz
Impulse Dielectric Test, 6.0 kV (peak)

Spark Test, 3.0 kV (rms), 60 Hz Impulse Dielectric Test, 8.0 kV (peak) INSULATION RESISTANCE: 5000 MQ for 1000 ft (minimum) INSULATION THICKNESS: INSULATION INICKNESS:

Primary Insulation, .003 in. (minimum)

Filter Layer, average .003 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 MΩ-in. (minimum), initial and final readings final readings THERMAL-SHOCK RESISTANCE: 150 ± 3°C, .060 in. (maximum)

VOLTAGE WITHSTAND (POST-ENVIRONMENTAL): (After Crosslinking Proof Test, Immersion, Life Cycle, and Low Temperature-Cold Bend) 1500 volts (rms), 60 Hz WRAP TEST: 6 hours at 200 ± 3°C, no cracking

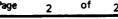
Finished Wire

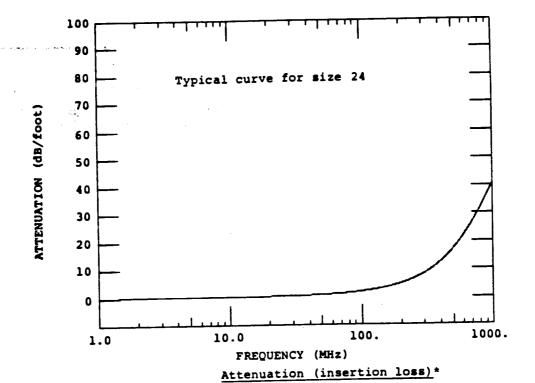
PART NUMBER®
The "\*" in the part numbers above shall be replaced by a color code designator in accordance with MIL-STD-681, except that violet shall be light violet and the designator shall be 7L. AWG 24, light violet: 55FAO414-24-7L AWG 24, light violet with blue stripe: 55FAO414-24-7L6.

## Raychem

Faraday Road, South Dorcan Swindon, Wiltshire SN3 5HH Tel: (0793) 28171 Telex: 449409

THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIO.





## Attenuation (insertion loss) \*

		Accentu	161011 (11				
Part no.	Pass band (dB/ft)			Transition band (dB/ft)			Stop band (dB/ft)
	1.0		).0	100 MIIz	500 MII2	1000 MHz	1 to 12 Gliz
	(max)	(min)	. (max),	(min)	(min)	(min)	(min)
55FA0414-26 55FA0414-24	.015	.04	0.10	1.3	12	30 30	30 30

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.