

# CABLE SPECIFICATION

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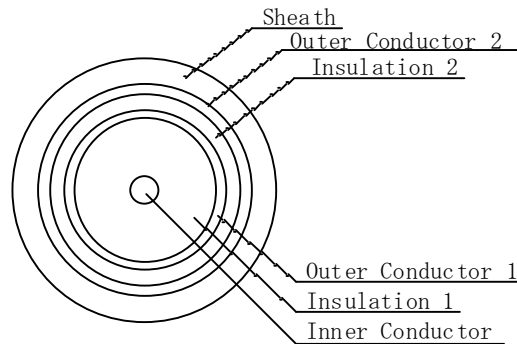


Canare Electric Co., Ltd.

Model L-7CFTX SAA286E Ver1.0  
 Applications 75Ω Triaxial Cable  
 \*Abrasion resistant sheath

Physical Characteristics		Unit	Standard Value	Note
Inner Conductor	Construction	qty/mm ( /mil)	1/A1.40 ( /15.75 )	Annealed Copper
	Nom. Cross Section Area	mm <sup>2</sup> ( mil <sup>2</sup> )	1.54 (2387.0)	16AWG
	Outer Diameter	mm ( mil )	1.40 (55.12)	
Insulation1	Type		FPE	Foamed polyethylene
	Thickness	mm ( mil )	2.55 (100.39)	
	Outer Diameter	mm ( Inch )	6.50 (0.256)	
Outer Conductor1	Type	carr/end/mm ( /mil)	24/ 8/A0.14 ( /5.51 )	Annealed Copper
	Thickness	mm ( mil )	0.30 (11.81)	
	Coverage	%	>93	
Insulation2	Type		PE	
	Thickness	mm ( mil )	0.80 (31.50)	
Outer Conductor2	Type	carr/end/mm ( /mil)	24/ 8/A0.14 ( /5.51 )	Annealed Copper
	Thickness	mm ( mil )	0.3 (11.81)	
	Coverage	%	>88	
Sheath	Type		PVC	Color: Blk, Red, Grn Custom colors available.
	Thickness	mm ( mil )	0.9 (35.43)	
	Overall Diameter	mm ( Inch )	11.0 (0.43)	
	Marking		Triaxial Cable L-7CFTX CANARE <Year code> MADE IN JAPAN	Brittle Temp. -30°C (-22°F)
Weight		kg/100m (lbs/1000ft)	15.4 (103.5)	

## Cable Cross Section



Electrical Characteristics (Nominal)		Unit	Standard Value	Note	
D. C. Resistance	Inner Conductor	Ω/100m ( /1000ft)	≤ 1.2 (≤3.6)	Attenuation dB/100m ( /1000ft)	
	Outer Conductor 1	Ω/100m ( /1000ft)	≤ 0.8 (≤2.3)		10MHz 1.7 (5.2)
	Outer Conductor 2	Ω/100m ( /1001ft)	≤ 0.9 (≤2.8)		30MHz 2.9 (8.8)
Voltage Proof	Min. Breakdown Voltage.	VAC·1min	1000 (1000)	72MHz 4.6 (14.0)	
Insulation Resistance	Between Conductors	MΩ·km ( ·3000ft )	≥ 1000 (≥1000)	88MHz 5.2 (15.8)	
Char. Impedance		Ω at 10MHz	75±3	135MHz 6.5 (19.8)	
Capacitance	Between Conductors	pF/m ( pF/ft )	55 (16.8)	180MHz 7.6 (23.2)	
Attenuation		dB/100m ( /1000ft)	→	270MHz 9.5 (29.0)	

Mechanical Characteristics		Units	Standard Value	Note
Tensile Strength	Sheath	MPa	≥ 14.0	
		%	≥ 230	

Environment Characteristics	Specifications	Note
Migration	No deformity, discoloration or other flaws must be found on ABS resin plates during visual inspection.	Test conditions: Temperature: 50±1°C Duration: 24±1 hour (humidity not designated) Load: 500±25g
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C 3005.

**Note:** Testing must be performed under standard conditions set down in "JIS C 60068-1 General Environmental Testing Rules (Electric/Electronics)."

**Standard Conditions:** Unless otherwise specified, all tests and measurements should be performed within a normal temperature range of 15-35°C, a relative humidity of 25-75%, and an atmospheric pressure of 86-106kPa.