

Thermax

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50 Ohm Semi-flexible Coaxial Cable

Scope: This specification describes a fluoropolymer 50 ohm coaxial cable.

Construction Details

		Diameter (Nom.)
		Inches
Conductor	Solid silver plated copper covered steel	.0362
Dielectric	Polytetrafluoroethylene (PTFE)	.116
Shield	Copper-tin composite braid having 100% coverage	.138
Jacket	Fluorinated ethylene propylene (FEP)	.168

Properties

Impedance	50 ohms
Velocity of Propagation	69.5%
Capacitance	29.0 pF/ft.
Attenuation (typical)	
@ 500 MHz	8.0 dB/100 ft.
1,000 MHz	12.0 dB/100 ft.
5,000 MHz	30.0 dB/100 ft.
10,000 MHz	45.0 dB/100 ft.
20,000 MHz	70.0 dB/100 ft.
Power Rating @ 400 MHz	1,000 watts (max.)
Conductor Resistance	20.5 ohms/1,000 ft.
Shield DC Resistance	5.5 ohms/1,000 ft.
Shield Effectiveness (200 MHz - 18 GHz)	-110 dB max.
Bend Radius (min)	5/8 inch
Weight	32 lbs./1,000 ft.

Non-Controlled Copy

Product Specification			Revisions			
670-141XE			Rev.	Description	Date	Approved
			--	Initial release	7/13/07	AP
Prepared by	Date	Page				
AP	07/13/07	1 of 1				

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