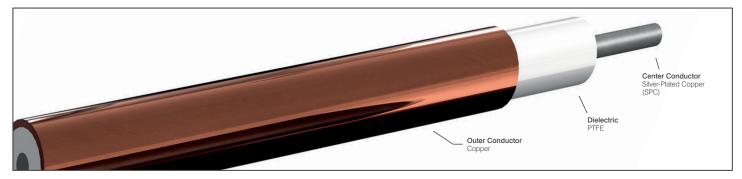
## **Semi-Rigid Coaxial Cables**

P/N UT-070C-25 | 25 Ω Copper Outer Conductor

## **INTRODUCTION**



With impedances from 5 to 100  $\Omega$  and diameters from 0.020 to 0.250", our odd-impedance semi-rigid cables are the right solution for any impedance-matching requirement.

DIMENSIONS				
Outer Conductor Diameter	in	0.070 ± 0.001		
	mm	1.778 ± 0.025		
Center Conductor Diameter	in	0.0314		
	mm	0.7976		
Length (Maximum)	Feet	20		
	Meter	6.10		

MATERIALS	
Outer Conductor	Copper
Outer Conductor Plating	None
Dielectric	PTFE
Center Conductor	SPC
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*				
Outer Conductor Integrity Temp.	°C	150		
Operating Temperature (Max)	°C	125		
Inside Bend Radius (Minimum)	in	0.125		
	mm	3.175		
Weight	lbs / 100ft	1.04		
	kg / 100m	1.56		

<sup>\*</sup> Applicable at room temperature. Contact factory for performance over temperature range.

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Cable & Interconnect Technologies			

ELECTRICAL CHARACTERISTICS*				
Characteristic Impedance	ohm	25		
Capacitance	pF / ft	58.0		
	pF/m	190.0		
Corona Extinction Voltage	VRMS @ 60 Hz	1000		
Voltage Withstanding	VRMS @ 60 Hz	3000		
Higher Order Mode Frequency	GHz	60.0		
	@ 0.5 GHz	21.2		
	@ 1.0 GHz	30.3		
	@ 5.0 GHz	70		
	@ 10.0 GHz	101.4		
Attenuation	@ 18.0 GHz	139.8		
(Db / 100 Ft Typical)	@ 26.5 GHz	173.5		
	@ 40.0 GHz	219.4		
	@ 50.0 GHz	249.7		
	@ 65.0 GHz	N/A		
	@ 90.0 GHz	N/A		
	@ 0.5 GHz	103.2		
	@ 1.0 GHz	72.5		
Power (Watts Cw @ 20°C, Maximum)	@ 5.0 GHz	31.5		
	@ 10.0 GHz	21.9		
	@ 18.0 GHz	15.9		
	@ 26.5 GHz	12.9		
	@ 40.0 GHz	10.2		
	@ 50.0 GHz	9		
	@ 65.0 GHz	N/A		
	@ 90.0 GHz	N/A		

Learn More: Amphenol-CIT.com

+1 (800) 458-9960