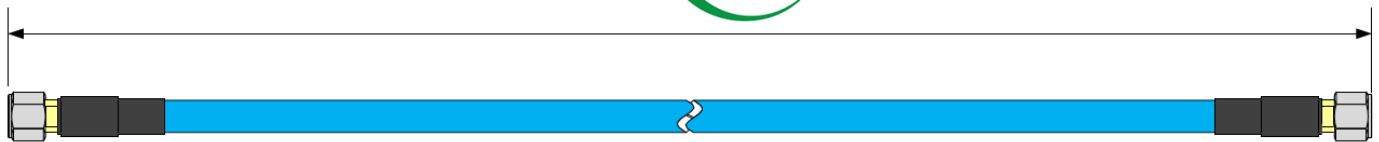




# 1.0mm Solutions for DC to 110GHz

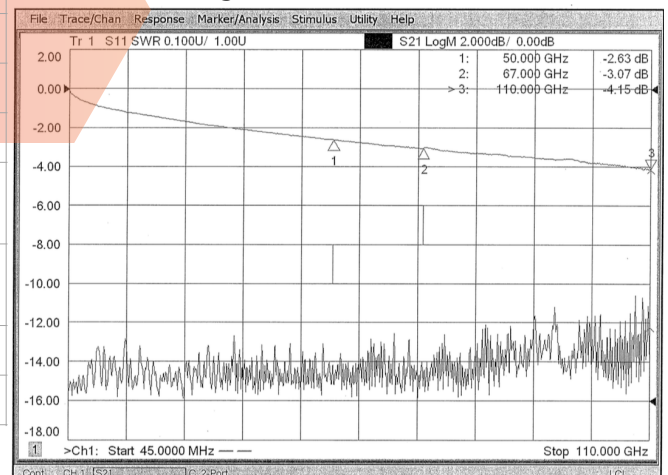
Test & System Cables,  
Connectors & Adaptors

Frequency DC-110GHz  
Stainless Steel Construction  
Flexible Cable Solutions  
Low VSWR, Low Loss  
100% Serialized data  
Rugged Light Armor Construction  
Lengths available up to 18"  
Phase Stable under Flexure  
Nomex weave enhancements optional



Characteristic	Specifications
Standard Lengths(in.)	2 to 18 inches
Impedance	50 Ohm
Cable Conductor	Silver Plated Copper
Cable Dielectric	Porous PTFE
Cable Braid	Steel Wire and Flat Wire
Cable Jacket	Blue FEB
Armor Constuction	Flexible Steel Armor Covered with Steel Braid and Polyolefin Jacket
Cable Diameter	4.6mm
Capciatance	85 pF/m
Transmission Delay	4.3 nS/m
Cut off Frequency	134Ghz
Coupling Torque (Nom.)	45 N.cm
Impact Resistance MIL-STD 202	Method 213B (750G-3mSec), Sin
Vibration Proof MIL-STD 202	Method 204D, Condition D (20G-Peak, 10 to 2000Hz)
Minimum Bend	10mm
Temp Range	-65C to +125C

ConductRF 1.0mm solutions for applications up to 110GHz include Flexible Test & System Cables, Connectors and Adaptors. They are designed to support the latest high frequency applications in Automotive Collision Avoidance, Instrument Measurements, Semi-Conductor Testing and various commercial and military radar requirements. Flexible cable assembly manufacturing requires great skill and attention to extremely fine detail and obviously must be verified through 100% test verification. Each ConductRF 1.0mm cable assembly is serialized and 100% of data is maintain at the factory as well as supplied with product. Options between 2 and 18" are available with male and female connector configurations.



15-PA-SeriesB

Technology Partner



800.348.5580  
630.208.2200



rellpower.com  
rellpower@rell.com

# 1.0mm Solutions for DC to 110GHz

## Test & System Cables, Connectors & Adaptors

### Part Number Determination

e.g. HPA70-AxAx-SLL

x =1 = Straight Male Connector

x =F = Straight Female Connector

LL = Length in Inches

Configuration	Length	Part No. Examples	Insertion Loss		VSWR	
			50GHz	110GHz	50GHz	110GHz
<b>System Cables</b>	(in.)					
Male to Male	6	HPA70-A1A1-S06	2.064	3.132	1.30	1.50
Male to Female		HPA70-A1AF-S06				
Male to Male	9	HPA70-A1A1-S09	2.884	4.383	1.30	1.50
Male to Female		HPA70-A1AF-S09				
Male to Male	12	HPA70-A1A1-S12	3.704	5.634	1.30	1.50
Male to Female		HPA70-A1AF-S12				
<b>Test Cables</b>			<b>50GHz</b>	<b>110GHz</b>	<b>50GHz</b>	<b>110GHz</b>
Male to Male	6	TSA70-A1A1-S06	1.906	2.933	1.25	1.40
Male to Female		TSA70-A1AF-S06				
Male to Male	9	TSA70-A1A1-S09	2.754	4.078	1.25	1.40
Male to Female		TSA70-A1AF-S09				
Male to Male	12	TSA70-A1A1-S12	3.504	5.228	1.25	1.40
Male to Female		TSA70-A1AF-S12				
<b>Adaptors</b>		BA-PAF-PBF-50	ADAPTER - 1mm Jack to 1.85mm Jack			
		BA-PAM-PBM-50	ADAPTER - 1mm Plug to 1.85mm Plug			
		BA-PAF-PBM-50	ADAPTER - 1mm Jack to 1.85mm Plug			
		BA-PAM-PBF-50	ADAPTER - 1mm Plug to 1.85mm Jack			
<b>Connectors</b>		PAM11A-A33S01	1mm Plug for 0.047" Semi-Rigid cable			
		PAF11A-A33S01	1mm Jack for 0.047" Semi-Rigid Cable			
		PAF11A-2HLS01	1mm Jack w. 2 Hole Flange w. 0.005" Stub			
		PAM11A-A70S01	Flex Cable Plug only available on assembly			
		PAF11A-A70S01	Flex Cable Jack only available on assembly			

### Options

Other Connector Configurations and Ranges available.

Custom lengths confirmed on request

Custom Marking available on Request