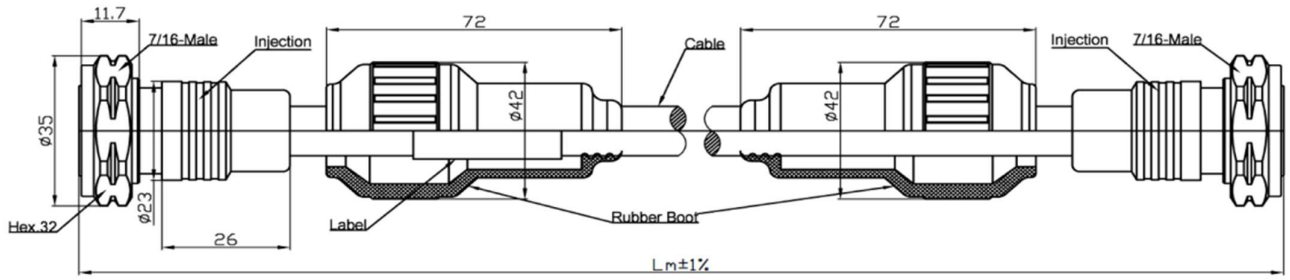
HANGZHOU PTL CABLE	TECHNICAL SPECIFICATION	PTL0156-2020
	7/16M-WP - 7/16M-WP-1/2"- 5M	Rev:A/1

Figure



Product Description

1). Cable Type:		HCAAY-50-12(1/2" Flexible)
2). Cable		
	Inner Conductor	Copper-Clad Aluminum Wire (Diameter 4.8 mm)
	Dielectric	Physical Foam Polyethylene (Diameter 12.3 mm)
	Outer Conductor	Corrugated Copper Tube (Diameter 13.9 mm)
	Jacket	Black PE - *Polyethylene Halogen free* (Diameter 15.7 mm)
3). Connectors		
	Connector	7/16 type male
	Inner Conductor Pin	Brass/Silver Plating
	Body & Outer Conductor	Brass/Trimetal Plating
	Insulator	PTFE
	Gasket	Silicon Rubber
	Nut	Brass/Nickel Plating
4). Waterproofs		Silicon Rubber

Electrical Characteristics

	Characteristics Impedance	50 Ohm	
	Insulation Resistance	≥10000MΩ	
	Dielectric Withstanding Voltage	≥ 2500V (DC, 1min)	
	Operating Frequency	0~2.7 GHz	
		Jumper Loss*	**Connector Insertion Loss**
Insertion Loss	@890MHz – 960MHz	≤ 0.071*L+0.10dB	0.05dB
	@1710MHz – 1880MHz	≤ 0.10*L+0.14dB	0.07dB
	@1920MHz – 2170MHz	≤ 0.11*L+0.15dB	0.075dB
	@2170MHz - 2700Mhz	≤ 0.124*L+0.17dB	0.085dB
		(L=Jumper Length)	
Return Loss	@890-960 MHz	≥ 28 dB	
	@1710-1880 MHz	≥ 28 dB	
	@1920-2170 MHz	≥ 28 dB	
	@2170-2700 MHz	≥ 26 dB	
PIM3(2*43dBm)		< -155dBc	

Environmental and Mechanical Specifications

Weather Resistance	IP68
Minimum bending radius, (mm)	≤ 70
UV Resistance	1000 hours
Operating Temperature	-45°C ~ +85°C
Storage Temperature Range	-55°C ~ +85°C
RoHS	Compliant
Halogen Free IEC 60754 – 2011	Compliant

** Jumper Loss(dB) = Attenuation* Jumper Length + 2*Connector Insertion Loss*

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