

# PT Series Precision Test cable

## Introduction

**XGY PT Series test cable (DC - 110 GHz)** is a high-performance interconnect solution specifically engineered for precision measurement.

Utilizing a robust 10-layer armored construction, it ensures exceptional electrical repeatability, phase stability, and ultra-low insertion loss.

Designed for durability, the cable offers superior crush and torque resistance, maintaining performance integrity through rigorous bending cycles.



## Features

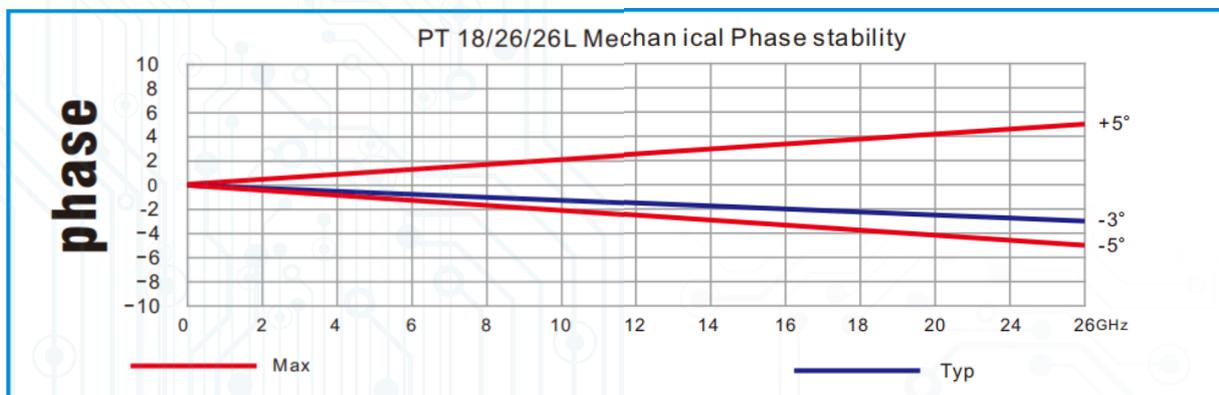
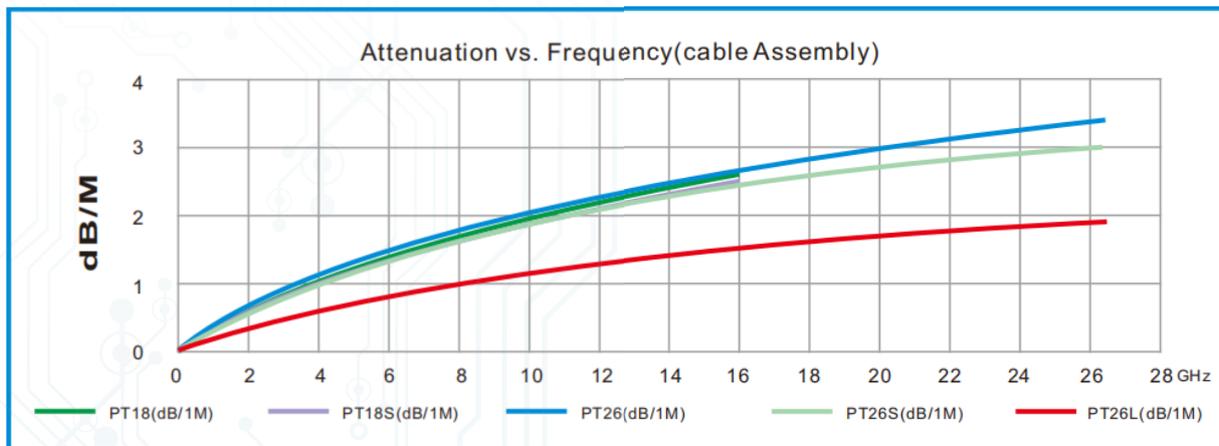
- Ruggedized Armored Construction
- Superior Phase & Return Loss Stability
- Excellent Phase Stability vs. Temperature
- Outstanding Long-Term Repeatability

## Application

- Research & Development Labs
- RF & mmWave Component Verification
- VNA Calibration
- Field Testing

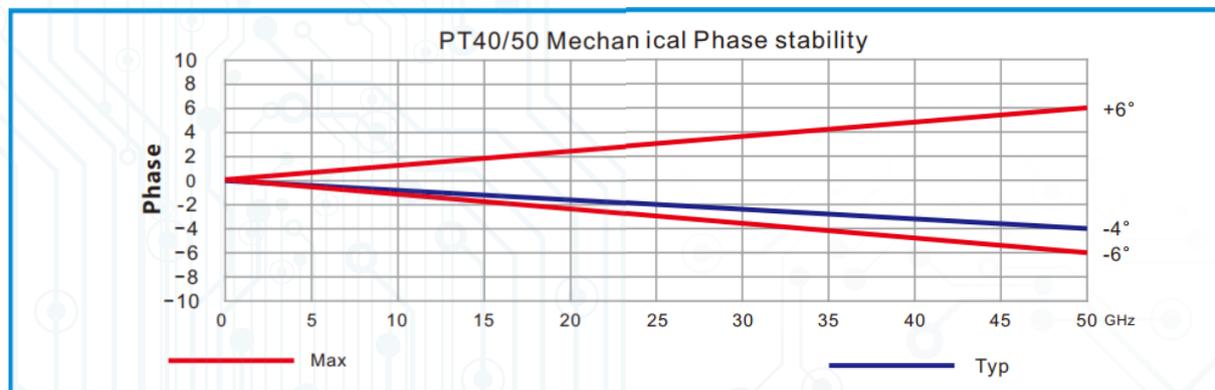
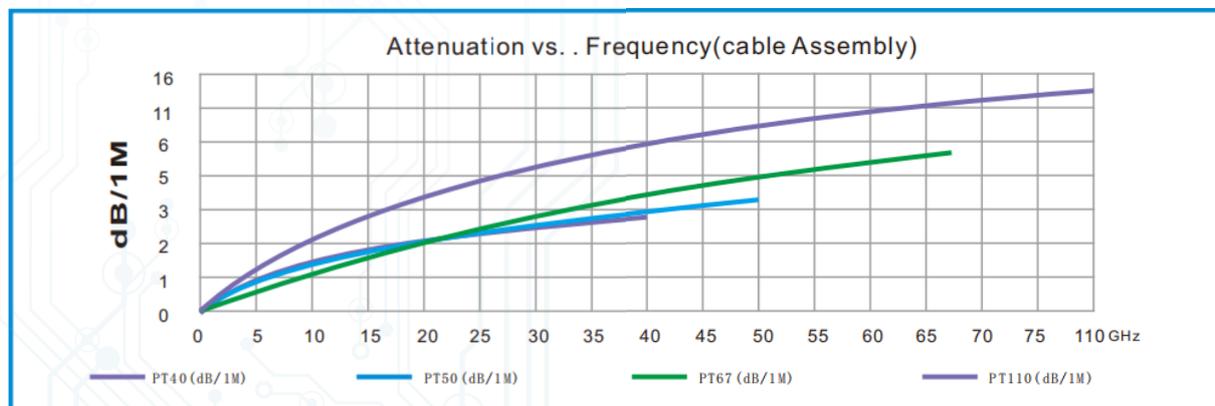
# Specifications - up to 26.5G

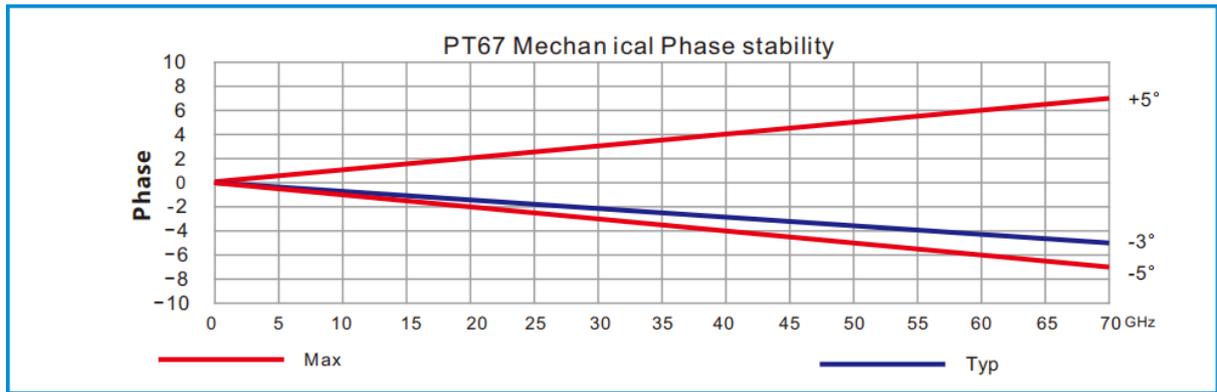
Parameters	Unit	PT18	PT18S	PT26	PT26S	PT26L
Frequency	GHz	18	18	26.5	26.5	26.5
VSWR (Max)	-	1.2	1.2	1.2	1.2	1.2
Cable Loss	dB/m	2.16	1.92	2.81	2.35	1.25
Amplitude Stability	dB	0.02	0.03	0.02	0.03	0.03
Phase Stability	°	2				
Velocity of Propagation (VP)	%	70	76	70	76	83
Shielding Efficiency	dB	<-90				
Time Delay	ns	4.76	4.3	4.76	4.3	4
Overall Diameter	mm	7.7	6.5	7.7	6.5	7.9
Cable Weight	g/m	110	105	110	105	110
Min. Bend Radius	mm	77	65	77	65	79
Bending Cycles	-	>2,000,000				
Temperature Range	°C	-55~+150				



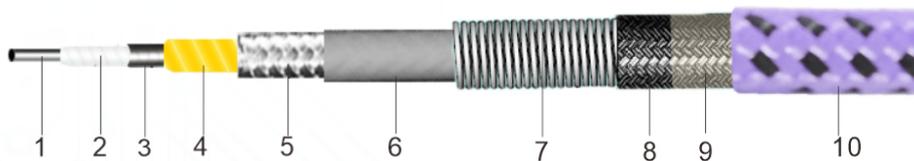
# Specifications - up to 110G

Parameters	Unit	PT40	PT50	PT67	PT110
Frequency	GHz	40	50	67	110
VSWR (Max)	-	1.3	1.3	1.4	1.45
Cable Loss	dB/m	2.9	3.3	5.93	14.3
Amplitude Stability	dB	0.03	0.05	0.1	Consult Factory
Phase Stability	°	3	5	8	Consult Factory
Velocity of Propagation (VP)	%	76			70
Shielding Efficiency	dB	<-100			<-90
Time Delay	ns	4.3			4.5
Overall Diameter	mm	6.5	6.5	5	5
Cable Weight	g/m	105	105	90	Consult Factory
Min. Bend Radius	mm	65	95	105	45
Bending Cycles	-	>2,000,000			>10,000
Temperature Range	°C	-55~+125			
Crush Resistance	kg/cm	300			





## Cable Structure



- |  |                            |
|--|----------------------------|
| 1-central conductor: silver-plated copper      | 6-Jacket: FEP              |
| 2-medium: low density PTFE                     | 7-Crush Protection Layer   |
| 3-outer conductor: silver-plated copper ribbon | 8-Braid SPC                |
| 4-Stabilization layer: PTFE                    | 9-PTFE Stabilization Layer |
| 5-Inner braiding: SPC                          | 10-Braided outer Jacket    |

## Order Information

**Phase Test Series**  
Default: black and purple

**Length**

**IN** Inch  
**M** Meter  
**F** Foot

P T X X - X X X X - X X

**Cable Type**

- 18** DC-18GHz
- 18S** Soft Type
- 26** DC-26.5GHz
- 26S** Soft Type
- 26L** Low Loss Type
- 40** DC-40GHz
- 50** DC-50GHz
- 67** DC-67GHz
- 110** DC-110GHz

**Connector Type of two terminals**

- SM** SMA Male
- SF** SMA Female
- NM** N Male
- NF** N Female
- KM** K Male (2.92mm)
- KF** K Female (2.92mm)
- 35M** 3.5mm Male
- 35F** 3.5mm Female
- 24M** 2.4mm Male
- 24F** 2.4mm Female
- VM** 1.85mm Male
- VF** 1.85mm Female
- 1M** 1.0mm Male