PRECISION TEST CABLE / ARMORED

Cable Name: T24KA/KB

Part No: VXT240KA/KB



67 GHz	≤ 1.40
MAX FREQUENCY	VSWR (@ 67GHZ)
± 7°	**Armor**
MECHANICAL PHASE	CRUSH RESISTANCE

General Description: The Vinstronics VXT240KA/KB is a premium armored precision test cable engineered for 67GHz microwave environments. Housed in a resilient purple PTFE armor, it ensures extraordinary mechanical phase stability (±7°) and amplitude stability (±0.05dB) during repeated bending. It is the definitive solution for high-precision VNA measurements, EMC labs, and intensive system testing.

Core Features

- **Mechanical Phase Stability:** Industry-leading ±7° stability under dynamic bending.
- **Amplitude Stability:** Strict ±0.05dB range stability for flawless data repeatability.
- **Armored Protection:** Impervious to crushing, torsion, and extreme lab wear.
- **Low VSWR:** ≤ 1.40 @ 67GHz ensures zero reflection interference.
- **High Frequency:** Precise and clean transmission up to 67GHz.

Target Applications

- **Lab Testing:** The ultimate choice for VNA and high-frequency testing.
- **EMC Lab:** Highly dependable in rigorous electromagnetic environments.
- **System Testing:** Provides flawless interconnects for complex test benches.
- **On-Site Measurement:** Armored durability for field measurements.

CONSTRUCTION SPECIFICATION

Item	Material & Process	Diameter mm [in]
1~6 VXT240 Cable	FEP Jacket Core	**2.40** [0.094]
7~8 Armor	Silver-plated copper	**3.60** [0.142]
9~10 Jacket	PTFE (Purple)	**4.80** [0.189]

ELECTRICAL CHARACTERISTICS

Operating Frequency	**67 GHz**
VSWR	**≤ 1.40 @ 67GHz**
Mechanical Phase	**± 7°**
Range Stability (Amplitude)	**± 0.05 dB**
Shielding Effectiveness	**>90 dB**
Dielectric Withstanding Voltage	**500 V.DC**

ATTENUATION AND TRANSMISSION POWER

Frequency (MHz)	**1000**	**3000**	**8000**	**18000**	**26500**	**40000**	**67000**
Attenuation (dB/100m)	**63.7**	**111.9**	**186.5**	**287.1**	**354.0**	**444.0**	**593.2**
Average Power (kW)	**0.097**	**0.055**	**0.029**	**0.022**	**0.017**	**0.014**	**0.010**

K1 = 1.975832 **K2 =** 0.001221 **Formula:** Attenuation = K1 × √F(MHz) + K2 × F(MHz)

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Static Bending Radius	**30 mm** [1.181 in]
Dynamic Bending Radius	**50 mm** [1.969 in]
Weight	**0.052 kg/m** [0.0349 lbs/ft]
Temperature Range	**-55 ~ +125 ℃** [-67 ~ +257 ℉]