PRECISION TEST CABLE / ARMORED

Cable Name: T36KA/KB

Part No: VXT360KA/KB



50 GHz	≤ 1.35
MAX FREQUENCY	VSWR (@ 50GHZ)
± 7°	**Armor**
MECHANICAL PHASE	CRUSH RESISTANCE

General Description: The Vinstronics VXT360KA/KB is a robust armored precision test cable designed to deliver flawless 50GHz transmission. Built with a tough purple PTFE armor, it eliminates signal degradation caused by cable movement, providing outstanding mechanical phase stability (±7°) and amplitude stability (±0.05dB). It is essential for rigorous VNA testing and high-precision instrument interconnects.

Core Features

- **Mechanical Phase Stability:** Exceptional ±7° stability for highly repeatable measurements.
- **Amplitude Stability:** Strict ±0.05dB range stability under dynamic flexing.
- **Armored Protection:** Eliminates damage from torsion, pulling, and crushing.
- **Ultra-Low VSWR:** ≤ 1.35 @ 50GHz guarantees absolute signal purity.
- **High Frequency:** Reliable high-performance transmission up to 50GHz.

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 VXT360 Cable	FEP Jacket Core	**3.60** [0.142]
7~8 Armor	Silver-plated copper	**5.10** [0.201]
9~10 Jacket	PTFE (Purple)	**6.10** [0.240]

ELECTRICAL CHARACTERISTICS

Operating Frequency	**50 GHz**
VSWR	**≤ 1.35 @ 50GHz**
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**	**12400**	**18000**	**26500**	**40000**	**50000**
Attenuation (dB/100m)	**48.1**	**83.9**	**138.4**	**173.4**	**210.2**	**257.1**	**319.2**	**359.2**
Average Power (kW)	**0.506**	**0.290**	**0.176**	**0.140**	**0.116**	**0.095**	**0.076**	**0.068**

K1 = 1.507808 **K2 =** 0.000440 **Formula:** Attenuation = K1 × √F(MHz) + K2 × F(MHz)

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Static Bending Radius	**30 mm** [1.181 in]
Dynamic Bending Radius	**60 mm** [2.362 in]
Weight	**0.095 kg/m** [0.0638 lbs/ft]
Temperature Range	**-55 ~ +125 ℃** [-67 ~ +257 ℉]