PRECISION TEST CABLE / ARMORED

Cable Name: T80KA/KB Part No: VXT800KA/KB



18 GHz MAX FREQUENCY	**≤ 1.25** VSWR (@ 18GHZ)
± 3° MECHANICAL PHASE	**10.40 mm** ULTIMATE ARMOR

General Description: The Vinstronics VXT800KA/KB is the ultimate armored precision test cable, offering unmatched performance for 18GHz measurements. Encased in a massive 10.40mm purple PTFE armor, it boasts an incredible ±3° mechanical phase stability and ±0.05dB amplitude stability. Rated for 2000 V.DC, it delivers flawless, absolute precision under the most abusive laboratory conditions.

Core Features

- **Absolute Phase Stability:** Astounding ±3° stability, the pinnacle of test repeatability.
- **Amplitude Stability:** Strict ±0.05dB range stability under dynamic flexing.
- **Ultimate Armor:** Massive 10.40mm OD eliminates damage from crushing and torsion.
- **Extreme Voltage:** 2000 V.DC rating for superior power handling.
- **Ultra-Low VSWR:** ≤ 1.25 @ 18GHz ensures zero reflection interference.

Target Applications

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

CONSTRUCTION SPECIFICATION

Item	Material & Process	Diameter mm [in]
1~6 VXT800 Cable	FEP Jacket Core	**7.80** [0.307]
7~8 Armor	Silver-plated copper	**9.45** [0.372]
9~10 Jacket	PTFE (Purple)	**10.40** [0.409]

ELECTRICAL CHARACTERISTICS

Operating Frequency	**18 GHz**
VSWR	**≤ 1.25 @ 18GHz**
Mechanical Phase	**± 3°**
Range Stability (Amplitude)	**± 0.05 dB**
Shielding Effectiveness	**>90 dB**
Dielectric Withstanding Voltage	**2000 V.DC**

ATTENUATION AND TRANSMISSION POWER

Frequency (MHz)	**1000**	**2000**	**3000**	**6000**	**8000**	**10000**	**12400**	**18000**
Attenuation (dB/100m)	**16.7**	**23.8**	**29.3**	**42.1**	**48.9**	**55.0**	**61.7**	**75.3**
Average Power (kW)	**1.604**	**1.125**	**0.913**	**0.637**	**0.548**	**0.487**	**0.435**	**0.356**

K1 = 0.518300 **K2 =** 0.000320 **Formula:** Attenuation = K1 × √F(MHz) + K2 × F(MHz)

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Static Bending Radius	**50 mm** [1.969 in]
Dynamic Bending Radius	**80 mm** [3.150 in]
Weight	**0.220 kg/m** [0.1478 lbs/ft]
Temperature Range	**-55 ~ +125 ℃** [-67 ~ +257 ℉]