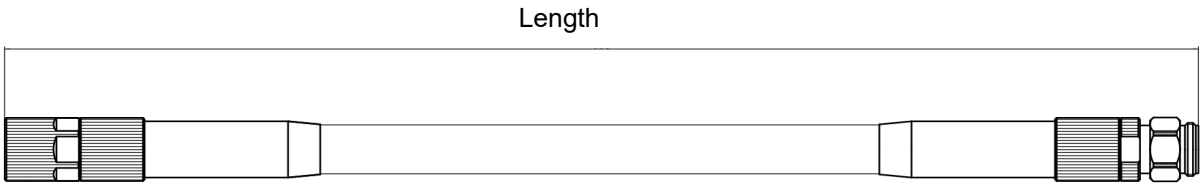
VNA Test Cable Assembly, using PL360P

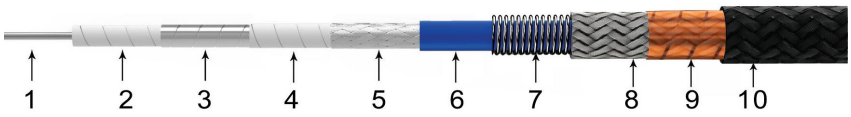
DC-40 GHz, NMD 2.92mm Male to NMD 2.92mm Female V40-41M41F-L(L:Length)



Features and Applications

- Extremely phase & amplitude stable with flex
- Long calibration intervals
- Long lasting life >50000 flexures
- High flexibility and no spring-back
- Ideal for use in vector network analyzers or other critical measurements

Cable Structure



No.	Construction	Materials
1	Center Conductor	Solid silver-plated copper
2	Dielectric	PTFE
3	Outer Conductor	Silver-plated copper tape wrap
4	Interlayer	PTFE
5	Outer Shield	Silver-plated copper wire braid
6	Inner Jacket	FEP
7	Armored Spring	Stainless steel spiral
8	Strengthening Layer	Silver plated copper braid
9	Anti Twist Layer	Waterproof Band
10	Armor Jacket	Black Nylon Sleeve

Configuration

Connector 1	NMD 2.92mm Female	**Connector 2**	NMD 2.92mm Male
Body	Passivated stainless steel	Body	Passivated stainless steel
Center Contact	Gold plated BeCu	Center Contact	Gold plated BeCu

Electrical

Frequency	DC-40 GHz
Impedance	50 Ω
VSWR	1.3 max
IL(63CM cable assembly)	2.4dB max
Phase Stability*	±5º@ 40 GHz
Amplitude Stability*	<±0.1dB

* Wrapped 360˚ around a 55mm radius mandrel.

Mechanical & Environmental

Outer Diameter	14.5mm
Min.Bending Radius	55mm
Flex Durability	>50000 Cycles
Mating Life	>5000 Cycles
Temperature(Operation)	0～40 ºC
Temperature(Storage)	-40～85 ºC
Crush Resistance	>150kgf/cm