

Flexline Super Flexible Low Loss Test Cable Assembly

Typical Applications:

- * High Volume Production Test Stations
- * OEM Test Port Cables
- * RF Test Platform
- * Research & Development Labs
- * Field RF Testing
- * RF circuits Testing



FlexLine test cable assembly is high performance and is approximately 40% more flexible than the standard DuraLine. This cable is combined with stranded silver-plated copper center conductor and ND-PTFE dielectric, inner layer which make the cable more stable.

The connectors are using BeCu center conductor with gold plating and stainless steel shell to make sure the long work life of the test cable assemblies.

Feature & Benefits:

- * Mechanical phase and amplitude stability
- * 40% more flexible
- * Tri-shielding construction
- * Connector with BeCu center conductor and stainless steel shell
- * High-strength PEI as connector insulator

Flexline Warranty

SLK provide 3 months of the warranty period for DuraLine from the date of its delivery. If problems occur by normal use during this 3 months, SLK will be responsible for the repairing and replacement.

Flexline

Physical & Mechanical Specifications		
Dimension	MM	Inch
Dcenter Conductor	1.02	0.040
Dielectric	3.03	0.119
Outer Conductor	3.22	0.127
Inter Layer	3.47	0.14
Shield	4.04	0.159
Jacket	5.20	0.205
Armor	10.8	0.425
Stainless Steel Armor	10.50	0.41
Armor Crush Resistance	1000N/25mm	
Bend Radius: Minimum	25.00	1.00
Connector Retention	> 175 lbs	
Mating Life Cycle	> 5000	
Length Tolerances	≤1M , +20mm , -0 ; > 1M , +2%,-0	
Temperature Range	High Temperature-Resistance Jacket	85°C
	PVC Armor	75°C

Electrical Specifications				
VSWR		18GHz	26.5GHz	-
	N	1.3:1	-	-
	SMA	1.25:1	1.3:1	-
Impedance	50 Ohms			
Velocity of Propagation	74%			
Shielding Effectiveness	> 90 dB			
Capacitance	27 pf/ft=88 pf/meter			
Mechanical Phase	Max:0.1*/GHz(next page for the detail)			
Mechanical Attenuation	Max : +/-0.05 dB(DC-26.5GHz)			
Attenuations Max@25°C(cable only)				
Power Handling (GHz)	dB/100 m	dB/100 Ft		
1	38.00	11.59		
2	56.00	17.07		
3	70.00	21.34		
6	103.00	31.40		
8	122.00	37.18		
12	155.00	47.23		
18	198.00	60.37		
26.5	252.00	76.83		
Attenuation at Frequency	(A=K1*sqrt(FMHz)+K2*FMHz)			
K1	1.1370			
K2	0.00253			
Average Power (25°C, Sea Level, Cable Only)				
Power Handling (GHz)	Watts (max.)			
1	149			
2	102			
6	55			
12	37			
18	29			
26.5	23			



Ordering Information

- N= Unarmored
- P= PVC Armored
- S= Steel Armored
- R= PUR Armored
- T= High Temperature-Resistance Pipe
- B= High Temperature-Resistance Pipe + Steel Armored

FLXXX-XXXXXX-XX.XXX

- M: Meters
Example: 01.20M= 1.2Meters
- F: Feet
Example: 07.50F= 7.5 Ft

- Connector Codes (2 or 3 Characters)
- SM= SMA Male
- SF= SMA Female
- NM= Type N Male
- N1T= Type N Male OneTurn
- NF= Type N Female
- TM= TNC Male
- SMR= SMA Right Angle
- NMR= Type N Male Right Angle
- TMR= TNC Male Right Angle

Maximum Frequency
18 = 18.0 GHz
26 = 26.5 GHz