DuraLine-TPS--- High Performance Phase Stable Test Cable Assembly



Typical Applications:

* High Volume Production Test

Stations

* Environmental and Temperature

Test Chambers

- * OEM Test Platform
- **RF** Test Platform
- * Research & Development Labs
- Field RF Testing

DuraLine-TPS is the newest design by Focusimple for the phase stability test cable assembly at the mormal ambient temperature of -40°C to +85 °C. DuraLine-TPS use the SPC ribbon braid and tri-shielding construction as the standard DuraLine test cable, but it features special dielectric material to make sure the phase stable vs. temperature.

Duraline-TPS is also phase stable with repeatedly flexed with excellent VSWR and return loss performance. Its phase changing is less than 250PPM at -40°C to +85 °C and is linearity to changes of temperature from 0°C to +45 °C.

Duraline-TPS test cable assemblies can be widely used in test systems, interconnection and phase-matching application that's sensitive to phase changes in temperature.



Feature & Benefits:

- * Good phase stable vs. temperature
- * Mechanical phase and amplitude stability
- * Long using life vs. bending
- Tri-shielding construction
- * Connectorr with Becu center conducitor and stainless steel shell
- * High-strength PEI as connector insulator

Focus and Simple

Duraline-TPS warranty

Focusimple Shanghai provides four months of the warranty period for DuraLine-TPS from the date of its delivery if problems occur by normal use during this four months , our company responsible for the repair or replacement

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DuraLine-TPS

Specification

		1000
VIEC		1015

Dimension	mm	Inch
Center Conductor	1.05	0.040
Dielectric	2.98	0.117
Out Conductor	3.18	0.125
Inner Layer	3.34	0.131
Sheilding	3.91	0.154
Jacket	4.85	0.191
PVC Armor	10.8	0.425
S/S Armor	10.50	0.41
Press of Armor	1000N/250	cm
Bending Radious	25.00	1.00
Retension Force	>175 lbs	
Cycle Times	>5000	
Length Tolerance	≤1m, +20mm, -0; >	1m, +2%,-0
Operation Temp.	Default	105°C
	High Temp. Boots	165°C
	PVC Armor	75°C
	SS Armor	150°C



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Frequency		6GHz	18GHz	26.5GH	
VSWR	N	1.15:1	1.30:1	-	
	SMA	1.15:1	1.25:1	1.30:1	
Impedance	50 Ohms				
Velocity	76%				
Sheilding	>90 dB				
Capacitance	27 pf/ft=88 pf/meter				
Mechnical Phase	Max:0.1°/GHz(See next page for actual)				
Mechnical Attenuation	Max: +/-0.10 dB(DC-26.5Ghz)				
		Attenuation	s Max@25°C		
Frequency (GHz)	dB/100 m		dB/100 Ft		
1	35.41		10.79		
2	51.49		15.69		
3	64.38		19.62		
6	95.27		29.04		
8	112.58		34.31		
12	143.1	6	43.63		
18	183.2	7	55.86		
26.5	233.5	5	71.17		
Other Frequency		(A=K1*sqrt(FM	MHz)+K2*FMHz)		
K1	1.0440000				
K2	0.0024000				
	Ave	rage Power (25°	C , See Level, ca	ble only)	
Frequency (GHz)	Watts (max.)				
1	149				
2	102				
6	55				
12	37				
18	29				

