

## Cable - Type 100

### Low Loss, Low Cost

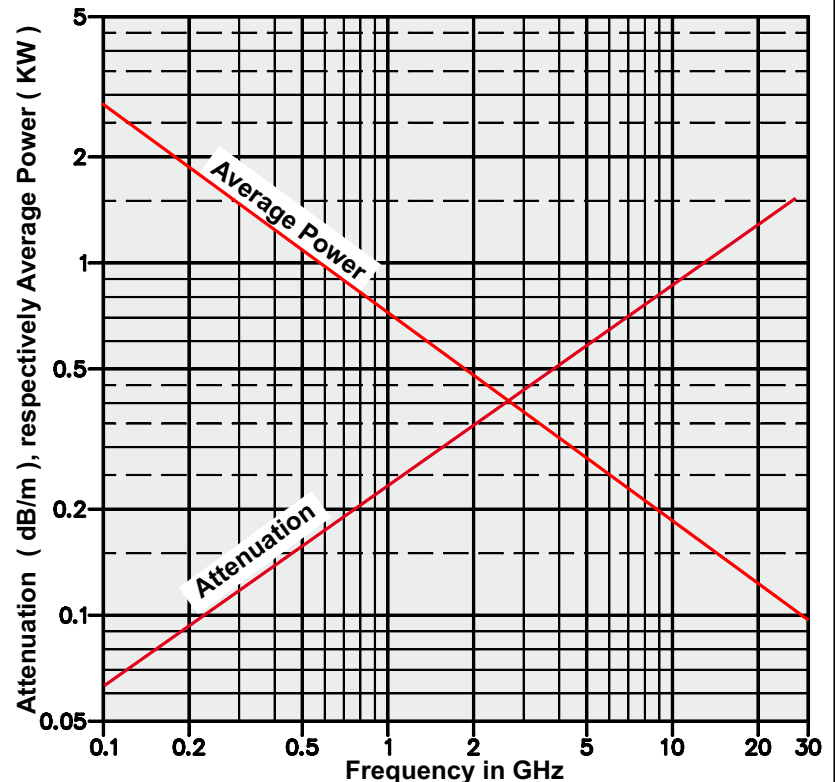
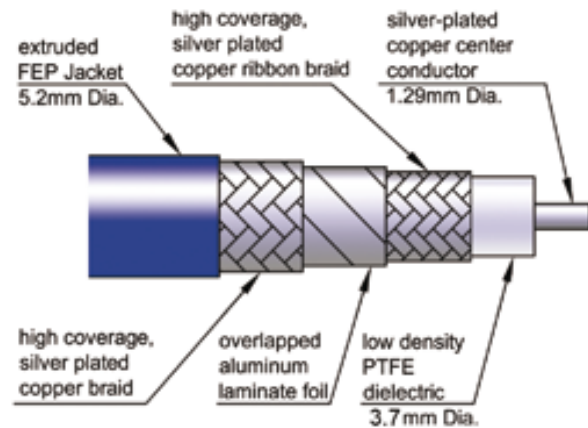
### High Performance

### DC - 26.5 GHz

#### Characteristics:

- \* Performance to 26.5 GHz, when terminated with 2.92mm or 3.5mm connectors (mating with SMA), or Spectrum's High Performance SMA (Code 11K)
- \* Meeting the very highest Quality Standard, as needed for crucial applications in harsh environment
- \* Procurement for completely terminated assemblies, fully tested. The test documentation for VSWR and Insertion Loss will be supplied with the cable assembly.
- \* Available connectors: 2.4mm, 3.5mm, 7mm, 7/16, HN, 2.92mm, N, SBX, SBY, SC, SMA, SPM, TNC, and Push-On Type Connectors or Series N, TNC and SMA.  
For Connector Outline Drawings please refer to Section Q.
- \* For Connector Code details please refer to Section S.
- \* For information on armor please refer to Section S as well.
- \* For ordering information please refer to Section A.

SPECIFICATION		Type 100
Cable Code	Standard	100
	Armored	100x
	X: Please find Armor & Ruggedizing Options in Section S.	
Frequency Range		DC to 26.5 GHz
Outer Diameter in mm	Standard	5.2
Impedance in Ohms at Sea Level and +25°C		50 ± 2
Velocity in %, ± 2%		75
Capacitance in pF/m		89
Dielectric Strength (60 Hz) in KV rms		6.0
Max. Operating Voltage at Sea Level, in KV rms, 60 Hz		1.5
Nominal Insertion Loss in dB/m vs. Frequency	0.5 GHz	0.16
	2.0 GHz	0.35
	5.0 GHz	0.58
	10.0 GHz	0.86
	18.0 GHz	1.20
	26.5 GHz	1.48
Nominal CW-Power in Watts, vs. Frequency, at Sea Level and + 20°C	0.5 GHz	1133
	1.0 GHz	750
	2.0 GHz	496
	5.0 GHz	288
	10.0 GHz	190
	18.0 GHz	134
	26.5 GHz	108
RF - Leakage at 18.0 GHz		- 90 dBC
Operating Temperature Range		-54°C to +150°C
Outer Conductor Construction		Copper Ribbon Braid, Overlapping Aluminum Film, Silver Plated Copper Braid
Outer Jacket		FEP
Dielectric Diameter in mm		3.7
Dielectric Material		Low Density PTFE
Dielectric Constant		1.6
Center Conductor Material		Copper, Silver Plated
Center Conductor Dia. in mm		1.29
Weight in Grams/Meter		66
Connector Retention Force (N)		140
Minimum Bend Radius, Inside, Static (mm)		26
Minimum Bend Radius, Inside, Dynamic (mm)		54

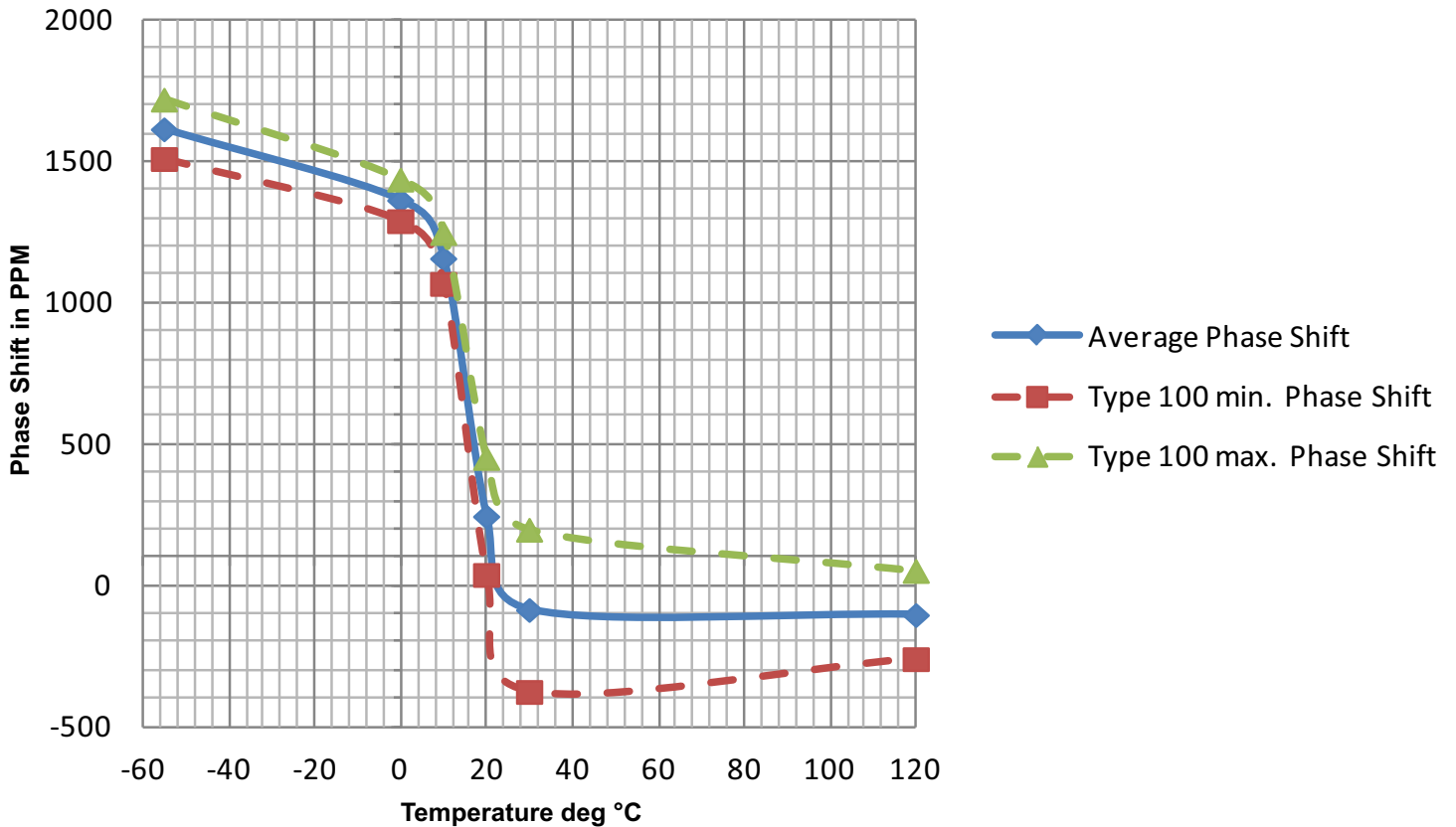


Specifications are subject to change without notice.

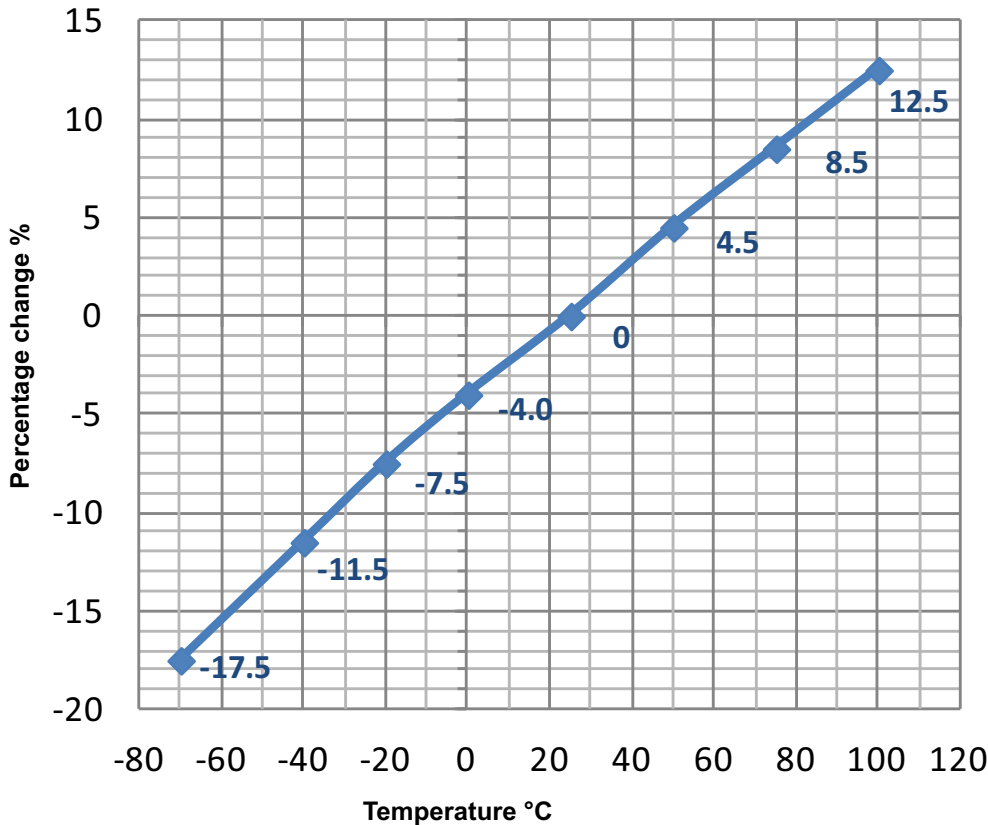
## Cable - Type 100

B

Phase Shift vs. Temperature



Insertion Loss Change over Temperature



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