

NexTek ExTreme Flex™

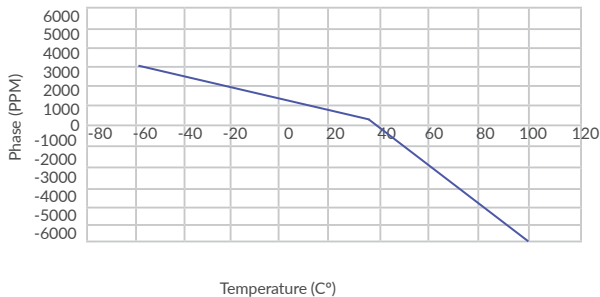
18 GHz Test Cables

NexTek ExTreme Flex™ is the perfect choice for testing sensitive RF electrical components. This extremely flexible and durable coaxial test cable facilitates the testing task and maintains its RF stability and isolation throughout the entire testing process. Our proprietary dielectric exhibits linear phase change from 0°C to +30°C (see graph). The cable uses a specialized connector attachment system that ensures the connectors will remain firmly attached cycle after cycle of heavy use and the custom-designed injection-molded strain relief system assures the cable will bend effortlessly and not fail prematurely.

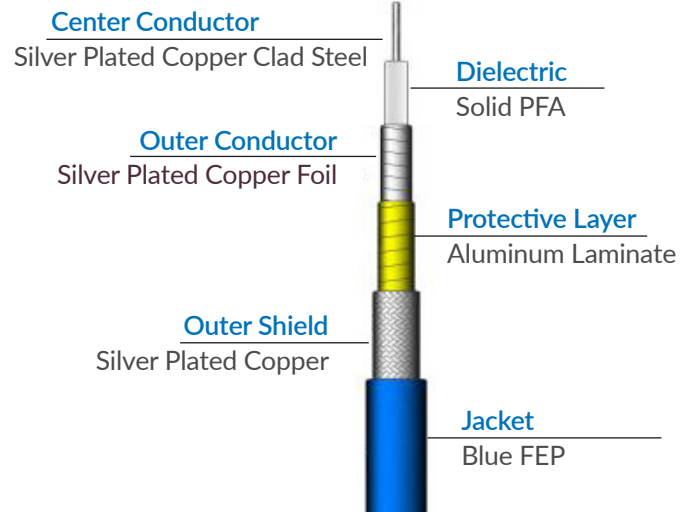
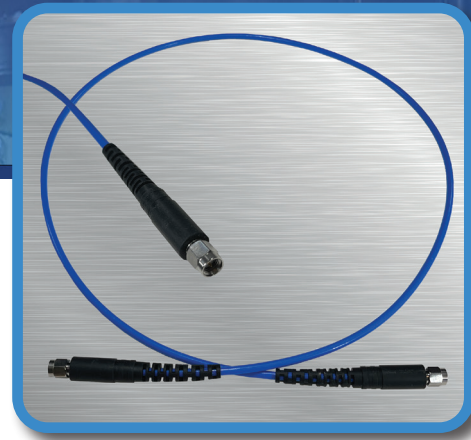
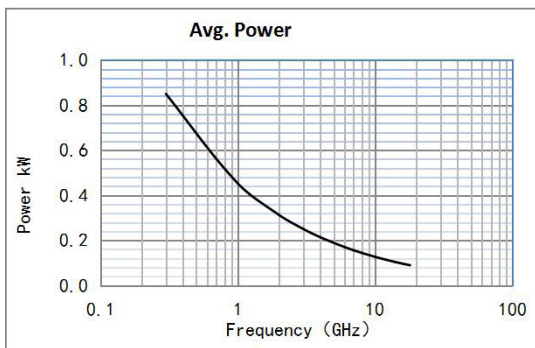
Features:

- Solid F-4
- Excellent Mechanical Stability
- SMA and N Connectors
- 2 to 4-foot lengths

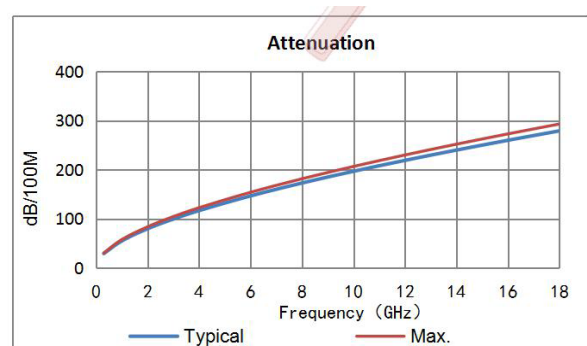
Phase Change vs Temperature:



Average Power:



Attenuation:



This specification is for reference only, and is subject to change without notice

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Mechanical Specifications:

Outside Diameter (mm)	3.8
Bend Radius Installation (mm)	19
Bend Radius Repeated (mm)	38
Weight (g/m)	37
Temp. Operating/Installation (°C)	-55 to +125
Temp. Storage (°C)	-65 to +125

Electrical Specifications:

Operation Frequency (GHz)	18
Impedance (Ohms)	50
Velocity of Propagation	70%
Shielding Effectiveness (dB)	90
Voltage Withstand (VDC)	1000

Attenuation (Typical @ 25° C & VSWR = 1.0) & Power (VSWR = 1.0; 40° C; Sea Level)

Frequency MHz	300	1000	2000	3000	4000	6000	8000	10000	12000	14000	16000	18000
dB/100 m	29.4	55.1	79.9	99.6	116.8	146.7	172.9	196.7	218.9	239.9	259.8	279.0
Avg. Power kW	0.850	0.453	0.313	0.251	0.214	0.170	0.144	0.127	0.114	0.104	0.096	0.090

K1 = 1.6392950

K2 = 0.0032790

Calculation Attenuation: $K1 * \sqrt{\text{FMHz}} + K2 * \text{FMHz}$

Ordering Guide:

Cable Part Number	Length	Connector Configuration
EXTF-18-SMSM-2.0F	2 feet (0.6m)	SM-SM
EXTF-18-SMSM-2.5F	2.5 feet (0.75m)	SM-SM
EXTF-18-SMSM-3.0F	3 feet (0.9m)	SM-SM
EXTF-18-SMSM-4.0F	4 feet (1.2m)	SM-SM
EXTF-18-SMNM-2.0F	2 feet (0.6m)	SM-NM
EXTF-18-SMNM-2.5F	2.5 feet (0.75m)	SM-NM
EXTF-18-SMNM-3.0F	3 feet (0.9m)	SM-NM
EXTF-18-SMNM-4.0F	4 feet (1.2m)	SM-NM

Connector Code	Description
SM	SMA Male
NM	Type N Male

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