

VERO FLEX

The preferred high flexibility RF Cable

Features

- High Flexible
- Low Insertion Loss

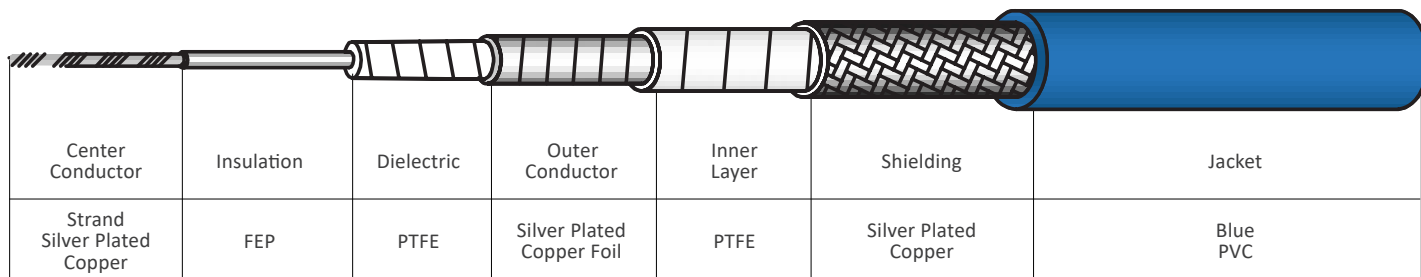
Typical Applications

- RF Module
- Anechoic Test Chambers
- Automated Test Equipment
- Wireless Telecommunication Module Testing

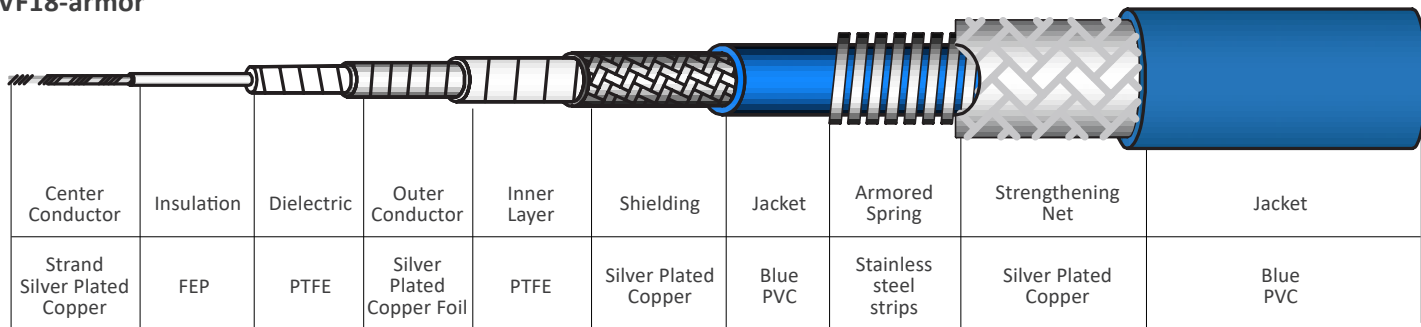


Cable Structure

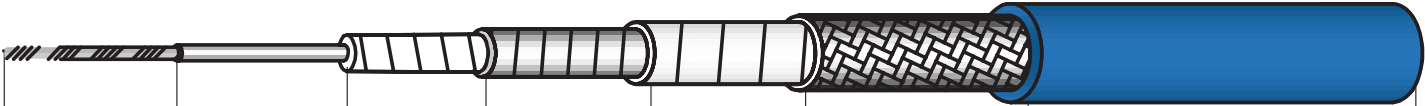
VF18



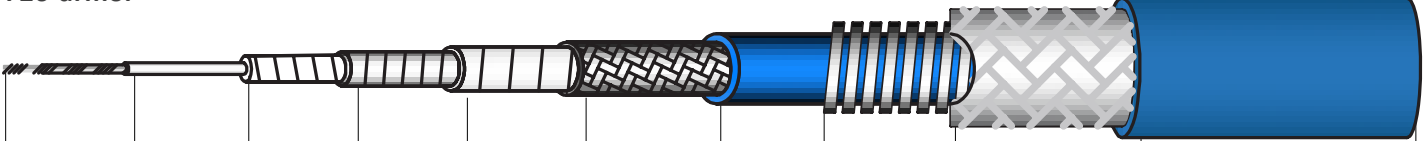
VF18-armor



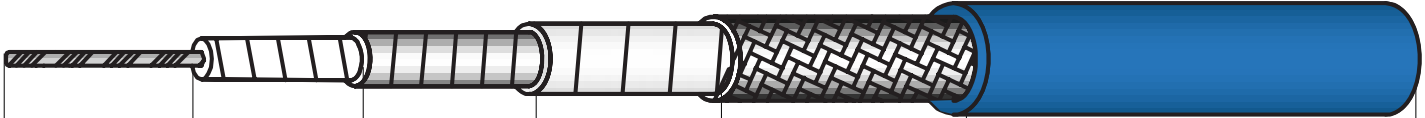
VF26

						
Center Conductor	Insulation	Dielectric	Outer Conductor	Inner Layer	Shielding	Jacket
Strand Silver Plated Copper	FEP	PTFE	Silver Plated Copper Foil	PTFE	Silver Plated Copper	Blue PVC

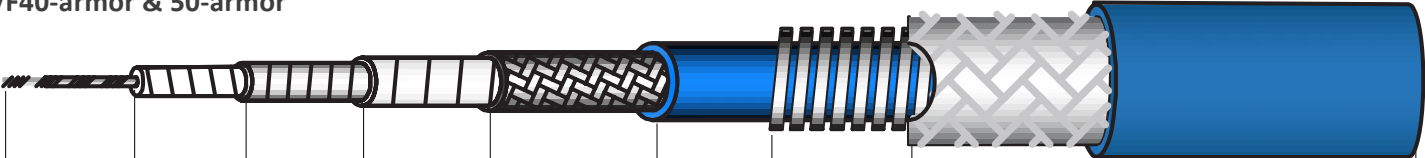
VF26-armor

									
Center Conductor	Insulation	Dielectric	Outer Conductor	Inner Layer	Shielding	Jacket	Armored Spring	Strengthening Net	Jacket
Strand Silver Plated Copper	FEP	PTFE	Silver Plated Copper Foil	PTFE	Silver Plated Copper	Blue PVC	Stainless steel strips	Silver Plated Copper	Blue PVC

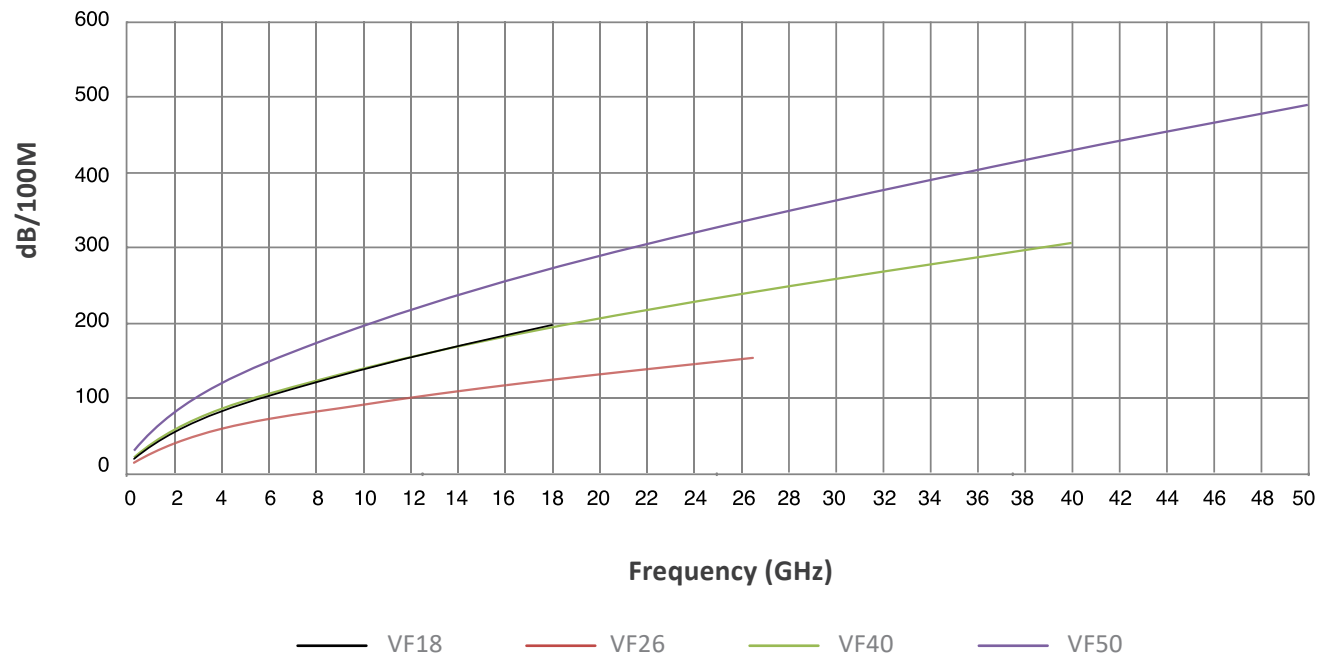
VF40 & VF50

					
Center Conductor	Dielectric	Outer Conductor	Inner Layer	Shielding	Jacket
Strand Silver Plated Copper	PTFE	Silver Plated Copper Foil	PTFE	Silver Plated Copper	Blue PVC

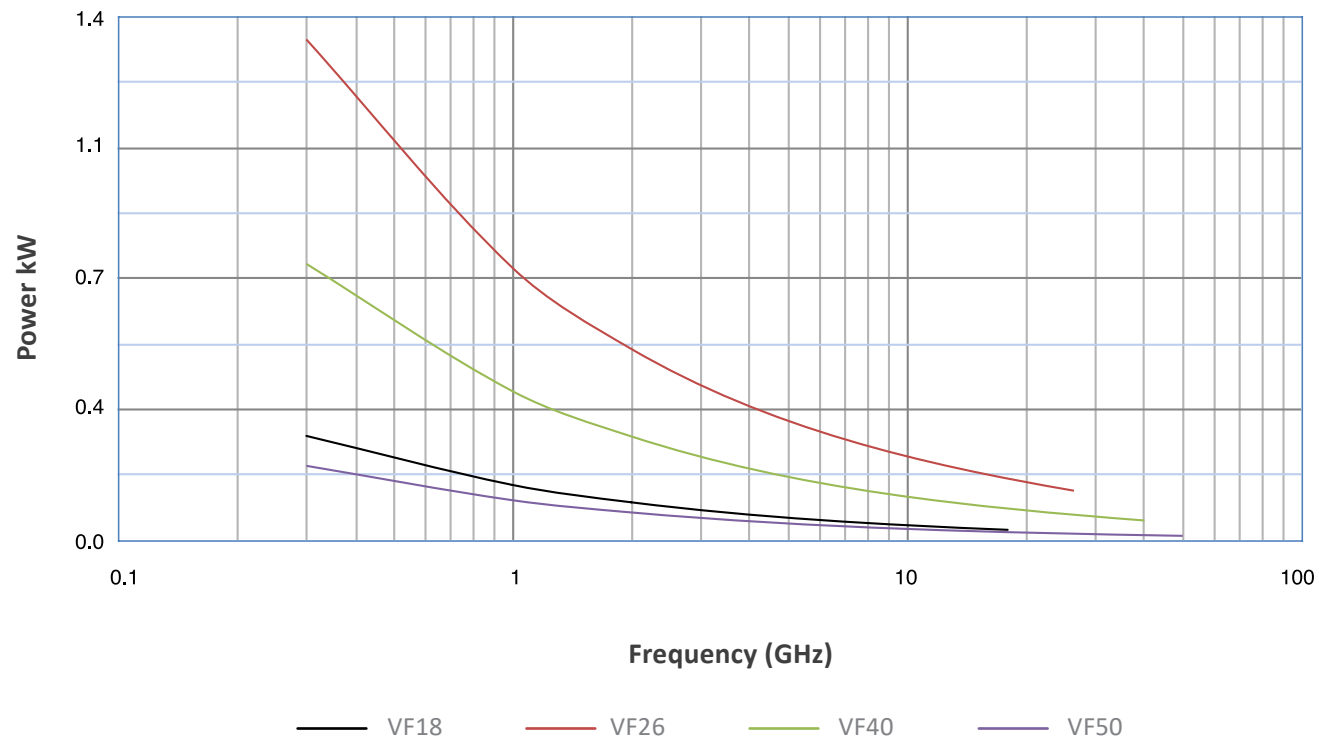
VF40-armor & 50-armor

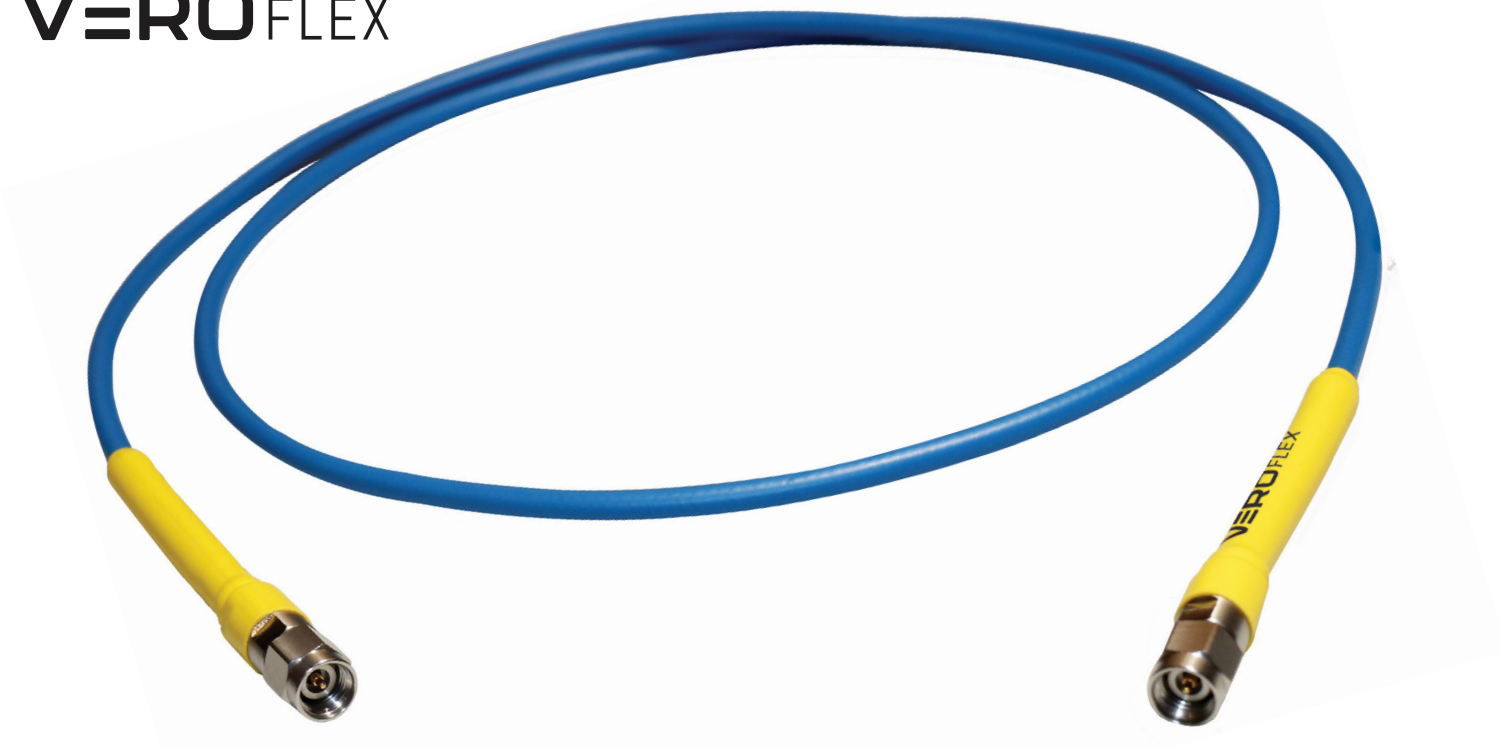
								
Center Conductor	Dielectric	Outer Conductor	Inner Layer	Shielding	Jacket	Armored Spring	Strengthening Net	Jacket
Strand Silver Plated Copper	PTFE	Silver Plated Copper Foil	PTFE	Silver Plated Copper	Blue PVC	Stainless steel strips	Silver Plated Copper	Blue PVC

VEROFLEX Attenuation



VEROFLEX Average Power

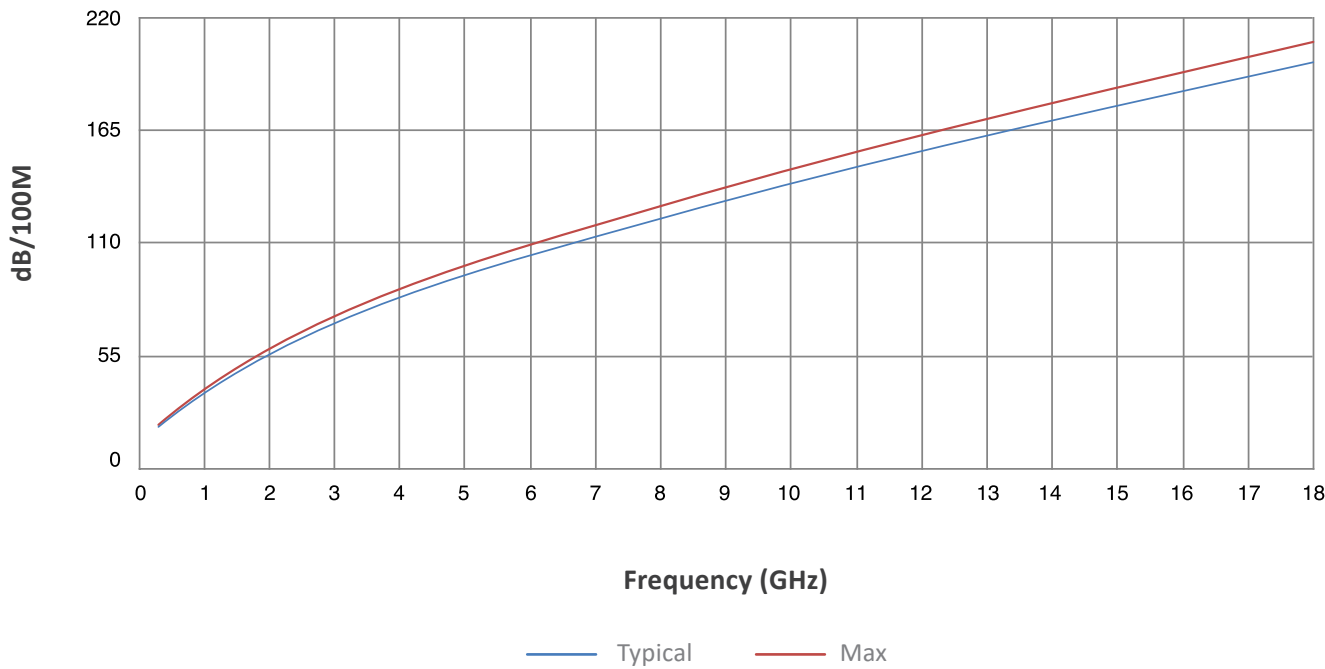




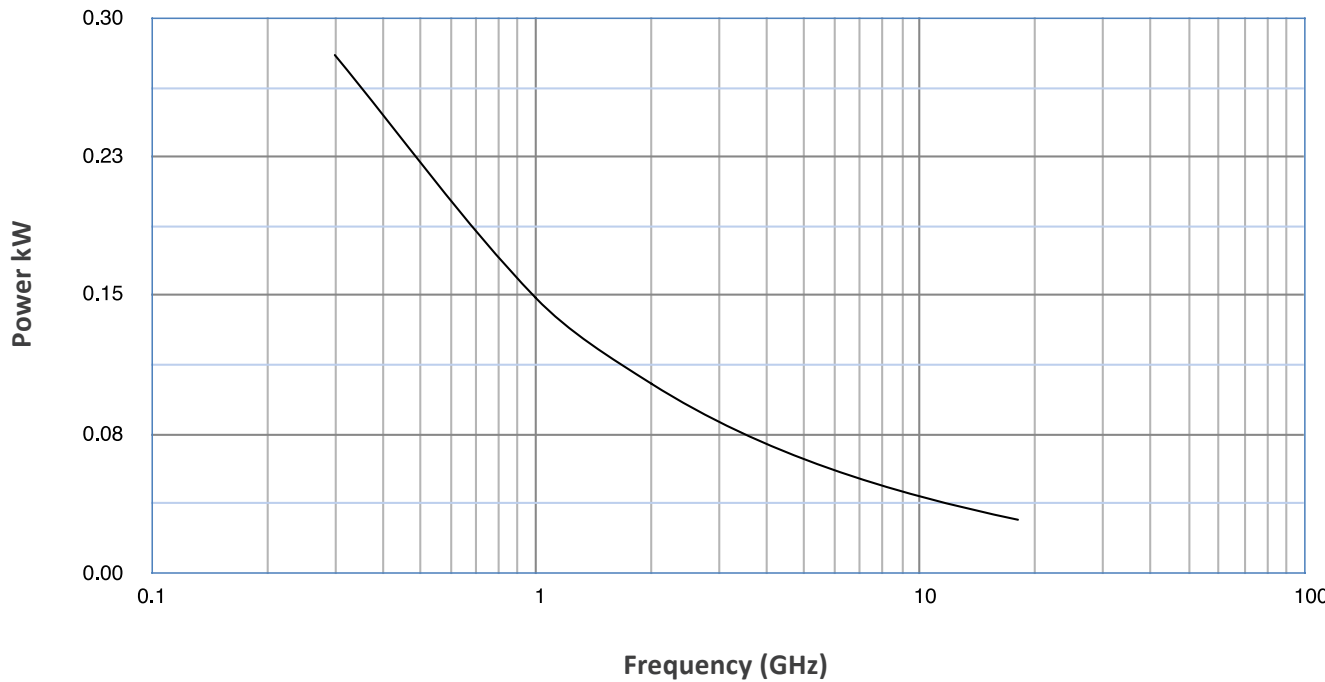
Specifications

Cable	VF18	VF18-armor	VF26	VF26-armor	VF40	VF40-armor	VF50	VF50-armor
Center Conductor	Stranded		Stranded		Stranded		Stranded	
Overall Diameter (mm)	5.5	9.0	6.0	9.0	4.3	6.0	4.0	6.0
Nominal Weight (g/m)	60	174	65	177	40	105	38	107
Minimum Bend Radius (mm)	28	40	30	40	22	25	20	25
Max Flex Cycles	200,000		200,000		200,000		200,000	
Temperature Range (°C)	-40/85		-40/85		-40/85		-40/85	
Maximum Frequency (GHz)	18.0		26.5		40		50	
Typical VSWR	1.19:1		1.22:1		1.25:1		1.25:1	
Maximum VSWR	1.3		1.30:1		1.35:1		1.40:1	
Max. Insertion Loss (dB/m)	1.98		1.6		3.07		4.9	
Impedance (Nominal) (Ohms)	50		50		50		50	
Phase Stability vs. Flexure	±5.0		±6.0		±6.0		±8.0	
Amplitude Stability vs. Bending(dB)	< ±0.1		< ±0.1		< ±0.15		< ±0.15	
Amplitude Stability vs. Shaking(dB)	< ±0.1		< ±0.1		< ±0.15		< ±0.15	
Dielectric Constant (Nominal)	1.83		1.45		1.52		1.83	
Velocity of Propagation (Nominal) (%)	74		83		81		74	
Time Delay (Nominal)(ns/cm)	0.045		0.0401		0.041		0.045	

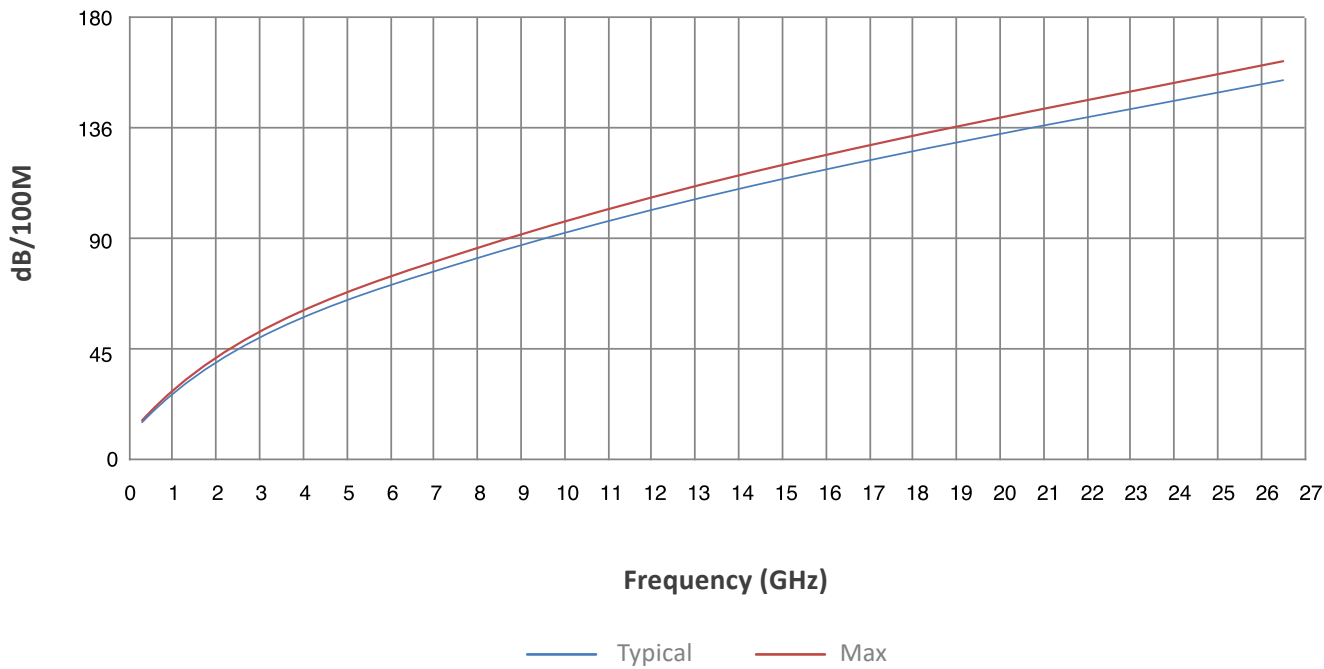
VF18 Attenuation



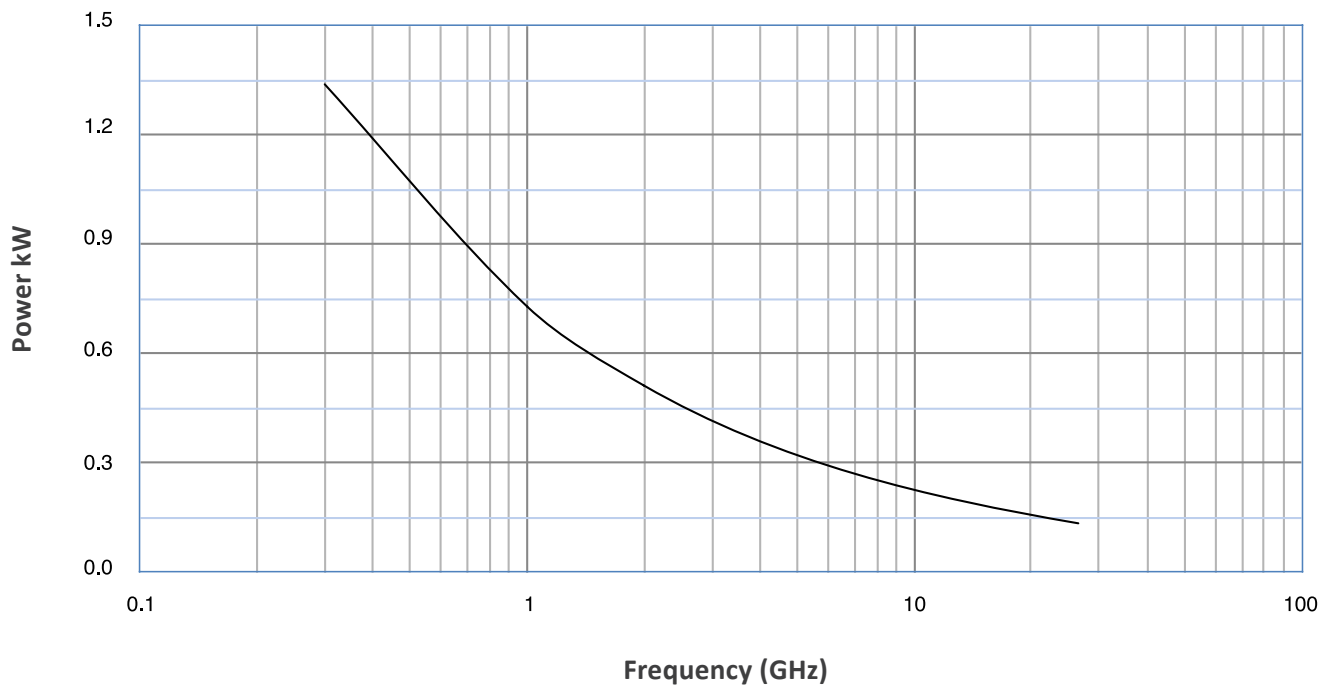
VF18 Average Power



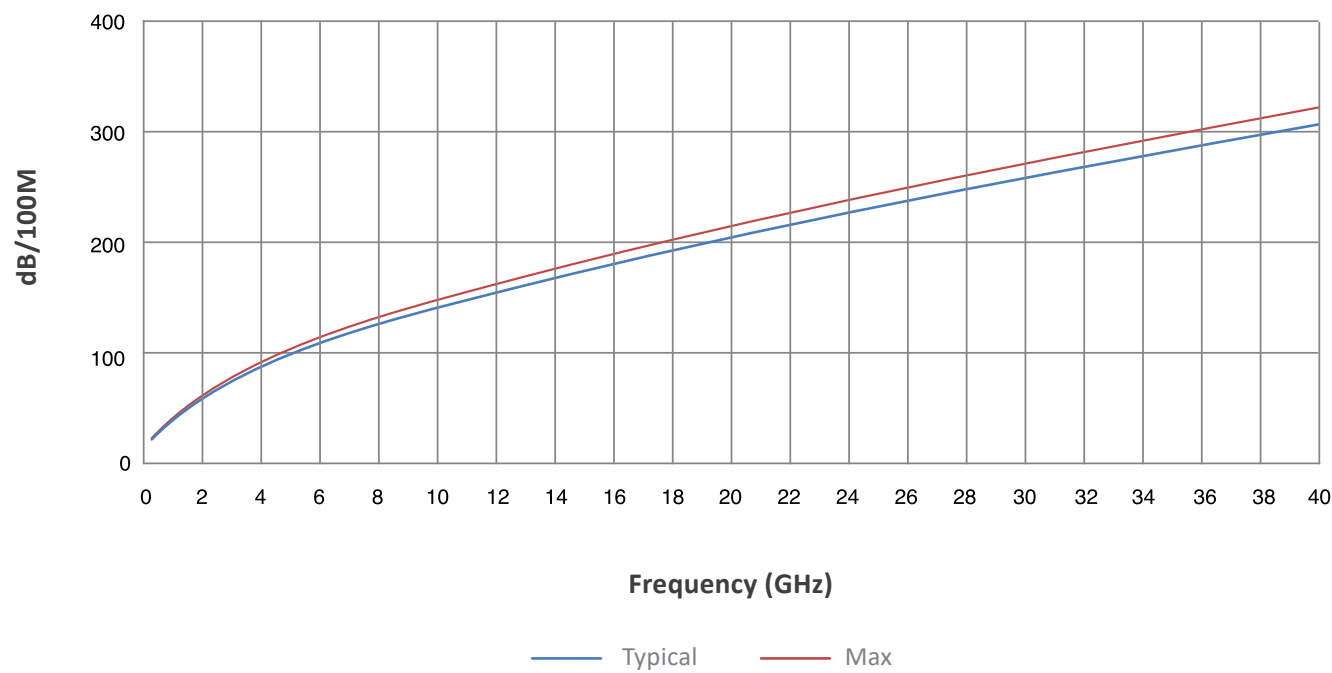
VF26 Attenuation



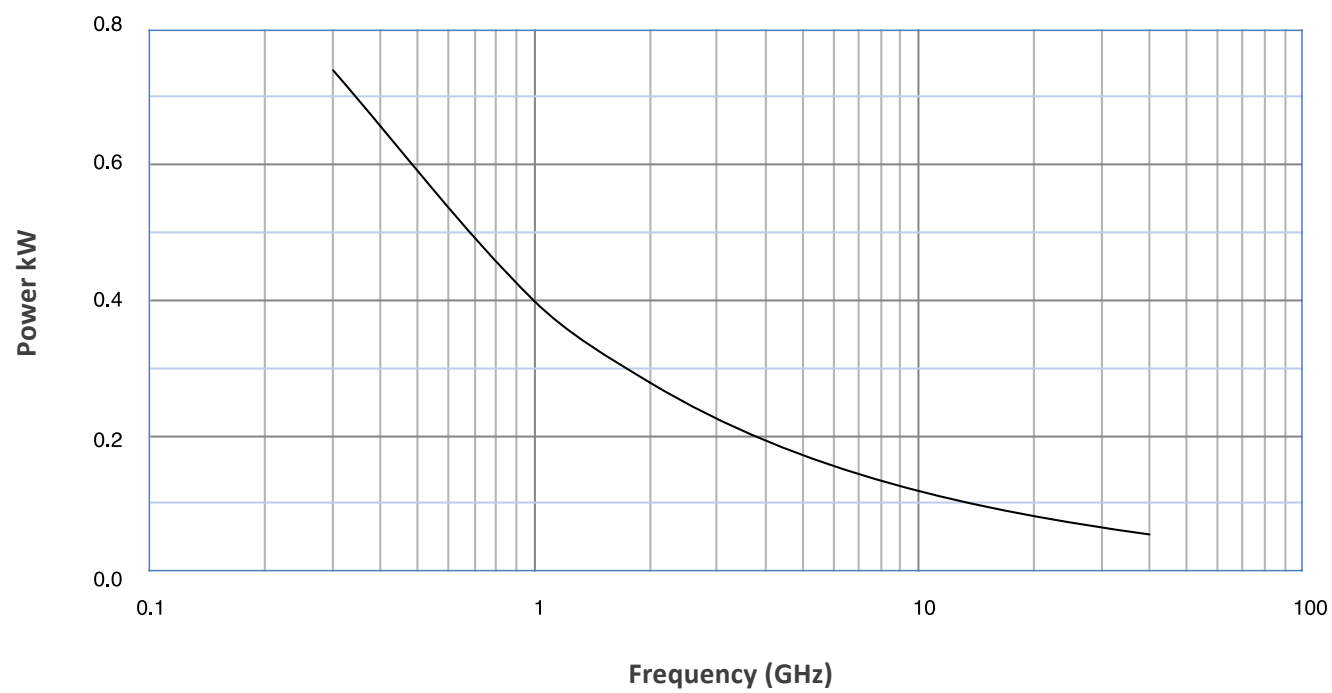
VF26 Average Power



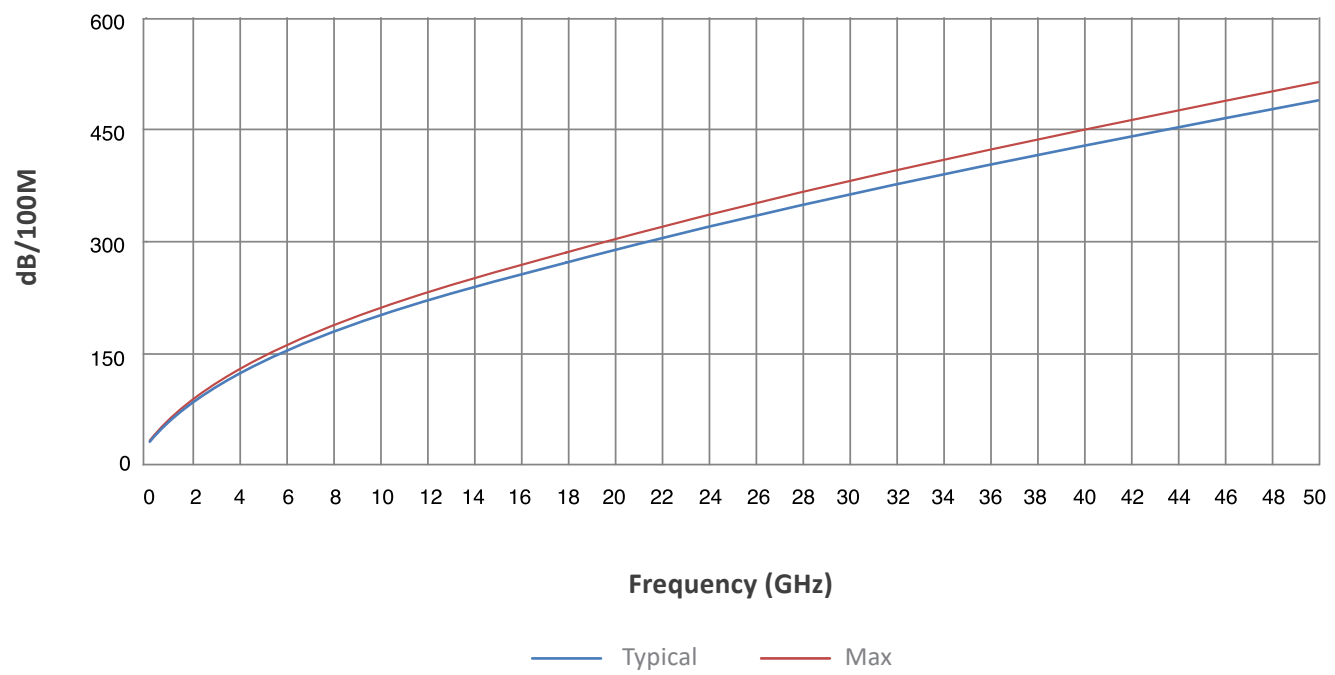
VF40 Attenuation



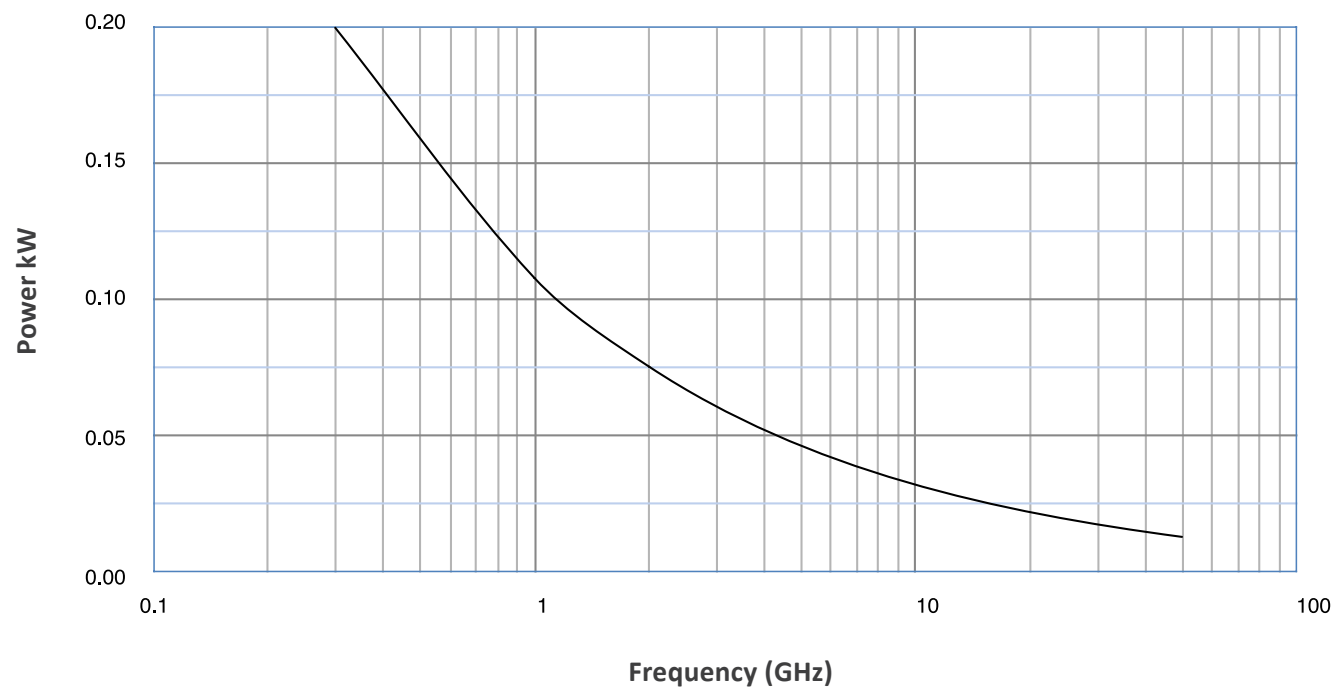
VF40 Average Power



VF50 Attenuation



VF50 Average Power



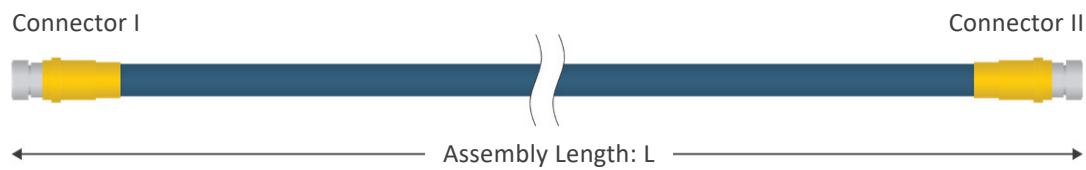
Attenuation (Typical @25°C & VSWR = 1.0)
& Power (VSWR = 1.0; 40°C; Sea Level)

Frequency (MHz)	VF18/VF18 armor		VF26/VF26 armor		VF40/VF40 armor		VF50/VF50 armor	
	Attenuation (dB/100m)	Average Power (kW)	Attenuation (dB/100m)	Average Power (kW)	Attenuation (dB/100m)	Average Power (kW)	Attenuation (dB/100m)	Average Power (kW)
300	20.45	0.890	15.39	1.340	22.33	0.740	31.38	0.200
1000	38.49	0.473	28.28	0.729	41.37	0.399	58.13	0.108
3000	69.87	0.261	49.50	0.416	73.36	0.225	103.01	0.061
4000	82.03	0.222	57.39	0.359	85.42	0.193	119.93	0.052
6000	103.25	0.176	70.74	0.291	106.10	0.156	148.92	0.042
8000	121.94	0.149	82.13	0.251	123.96	0.133	173.93	0.036
10000	139.00	0.131	92.26	0.223	140.00	0.118	196.40	0.032
12000	154.91	0.118	101.50	0.203	154.77	0.107	217.07	0.029
14000	169.95	0.107	110.06	0.187	168.57	0.098	236.38	0.027
18000	198.08	0.092	125.68	0.164	193.99	0.085	271.94	0.023
24000			146.46	0.141	228.33	0.072	319.93	0.020
26500			154.43	0.134	241.64	0.068	338.54	0.019
29000					254.50	0.065	356.50	0.018
32000					269.41	0.061	377.32	0.017
40000					306.88	0.054	429.63	0.015
50000							490.06	0.013

Calculate Attenuation = K1*VFMHz + K2*FMHz

	VF18/VF18 armor	VF26/VF26 armor	VF40/VF40 armor	VF50/VF50 armor
K1	1.1370000	0.8811000	1.2657000	1.7798616
K2	0.0025300	0.0004150	0.0013435	0.0018415

Selecting The Suitable Cable:
Part Number Construction



Cable Type-Length Conn (I)Conn (II) - A

VF18-01000 SMM SMM-N

1 2 3 4 5

1

Cable Type	Cable Code
VEROFlex Operating@Max 18GHz	VF18

2

Length Requirement	Length Code
1000mm	01000

3

Connector (I)	Connector Code
SMA Male	SMM

4

Connector (II)	Connector Code
SMA Male	SMM

5

With Armor	No Armor
A	N

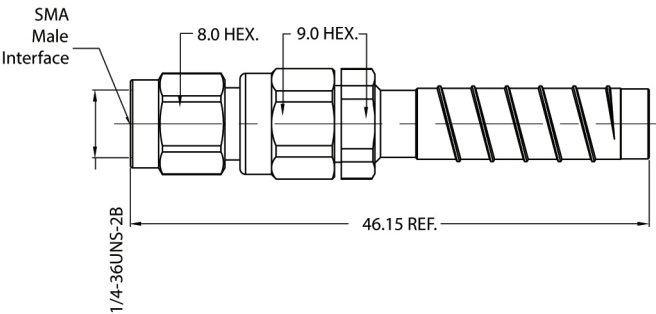
Criteria for Connector Selection

Connector Type	Mate	Connector Code			Max Operating Frequency (GHZ)	VF18/ VF18-armor	VF26/ VF26-armor	VF40/ VF40-armor	VF50/ VF50-armor
SMA	M	S	M	M	26.5	●	●	●	
SMA RA	M	A	S	M	18.0	●			
SMA	F	S	M	F	18.0	●			
N Type	M	N	N	M	18.0	●	●		
TNC	M	T	N	M	18.0	●			
3.5mm	M	D	M	M	26.5		●		
2.92mm	M	K	M	M	40.0			●	●
2.92mm RA	M	R	K	M	40.0				●
2.92mm	F	K	M	F	40.0				●
2.4mm	M	L	M	M	50.0				●
2.4mm	F	L	M	F	50.0				●

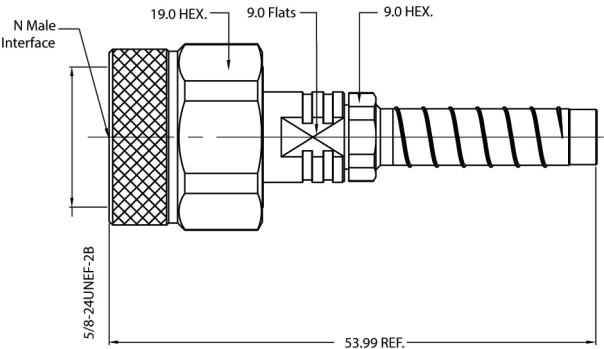
Available Standard Connectors

VF18

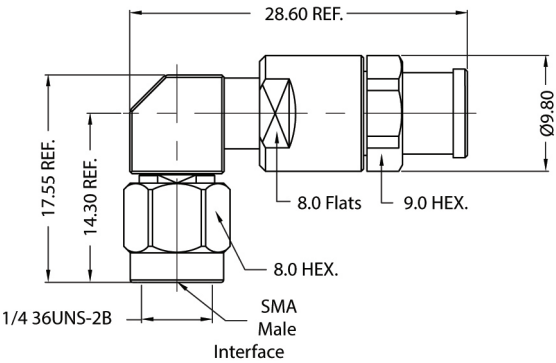
Type	SMA Male	Code	SMM
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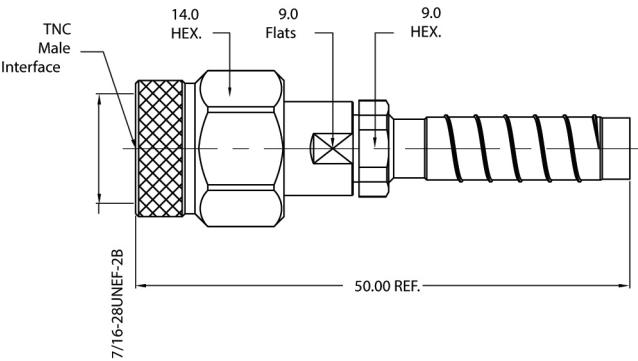
Type	N Male	Code	NNM
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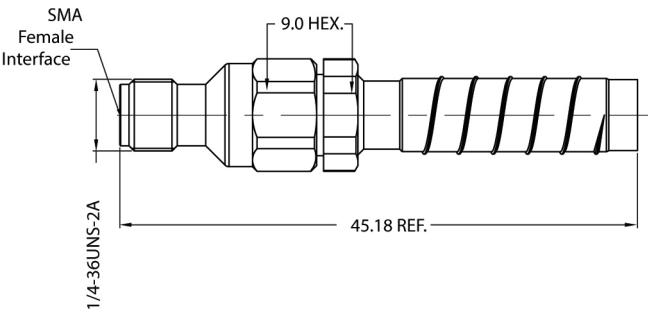
Type	SMA Male RA	Code	ASM
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Type	TNC Male	Code	TNM
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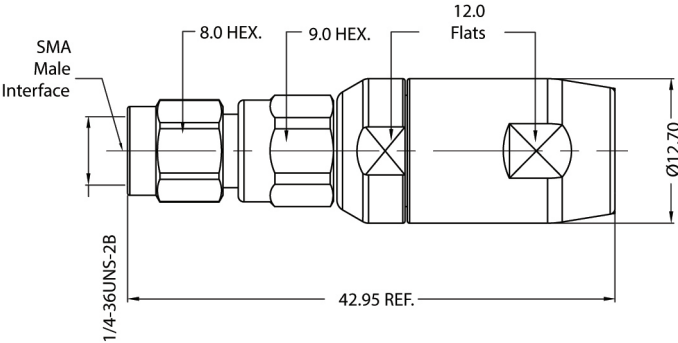
Type	SMA Female	Code	SMF
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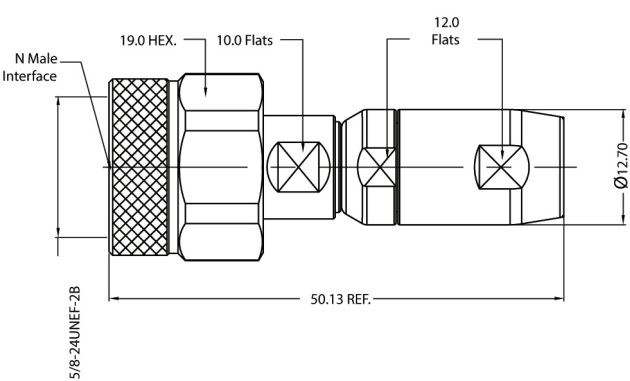
Available Standard Connectors

VF18-armor

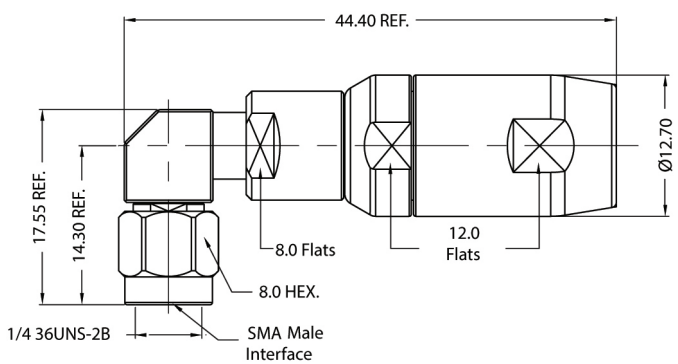
Type	SMA Male	Code	SMM
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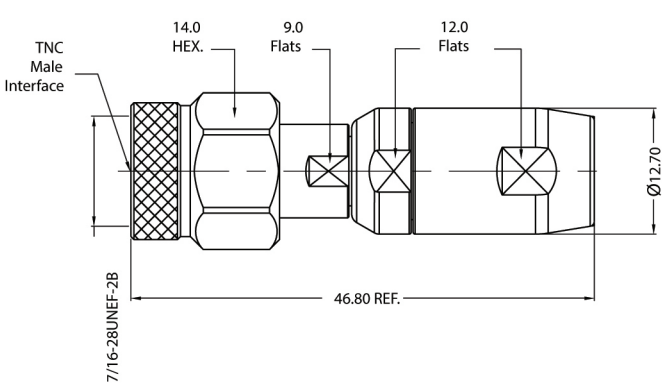
Type	N Male	Code	NNM
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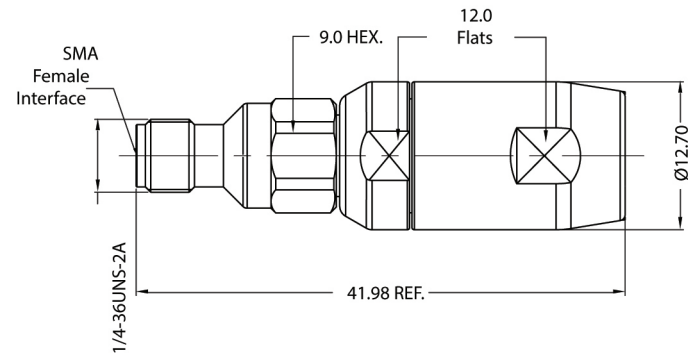
Type	SMA Male RA	Code	ASM
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Type	TNC Male	Code	TNM
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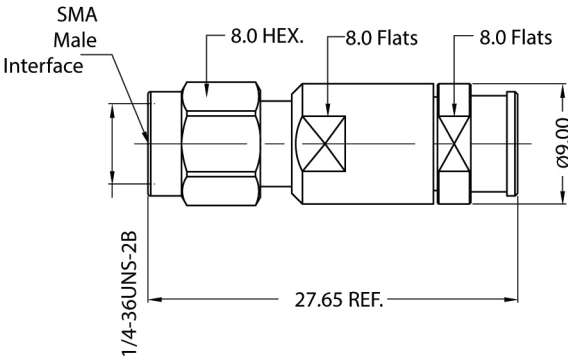
Type	SMA Female	Code	SMF
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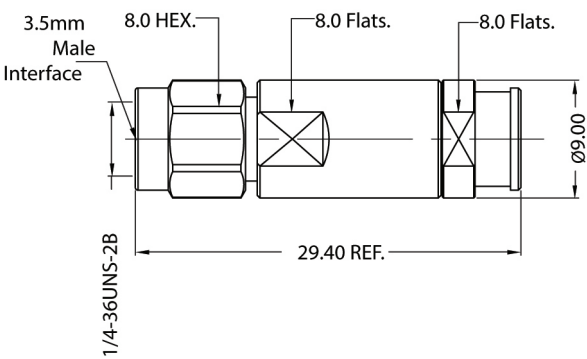
Available Standard Connectors

VF26

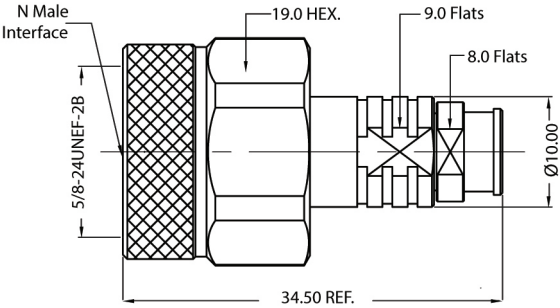
Type	SMA Male	Code	SMM
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Type	3.5mm Male	Code	DMM
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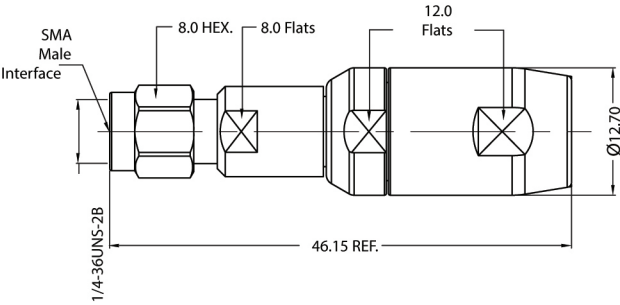


Type	N Male	Code	NNM
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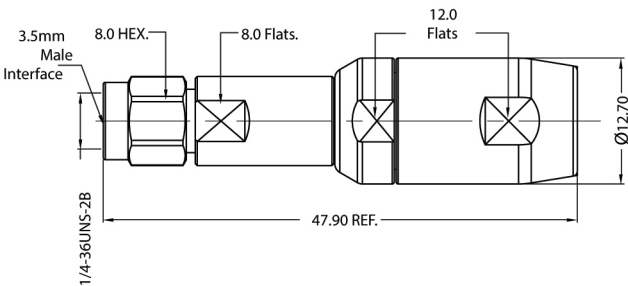


VF26-armor

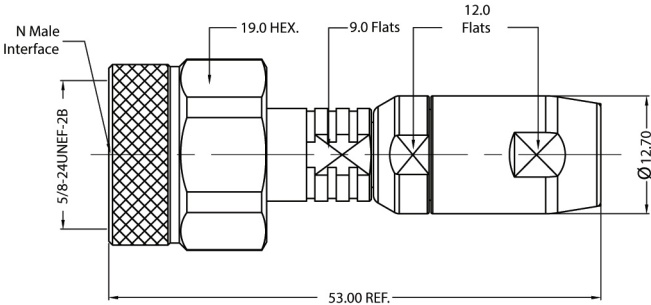
Type	SMA Male	Code	SMM
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Type	3.5mm Male	Code	DNM
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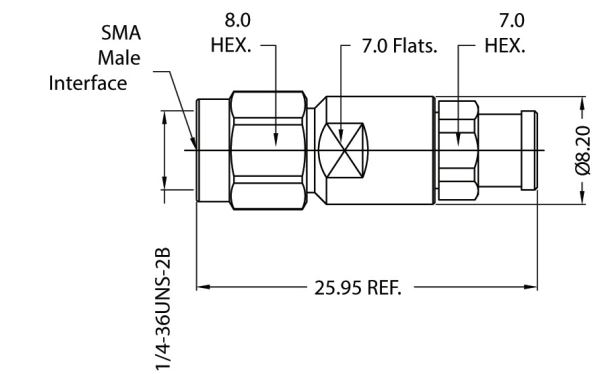
Type	N Male	Code	NNM
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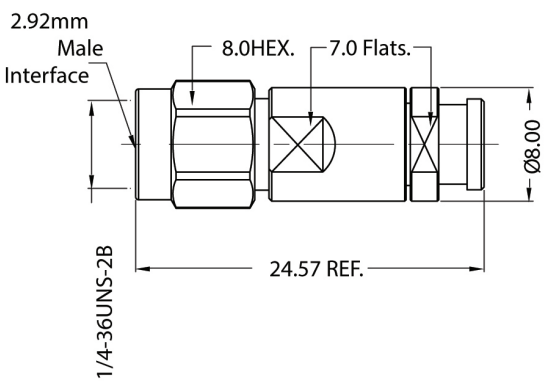
Available Standard Connectors

VF40

Type	SMA Male	Code	SMM
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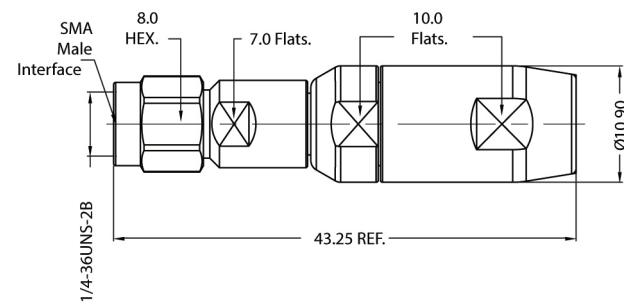


Type	2.92mm Male	Code	KMM
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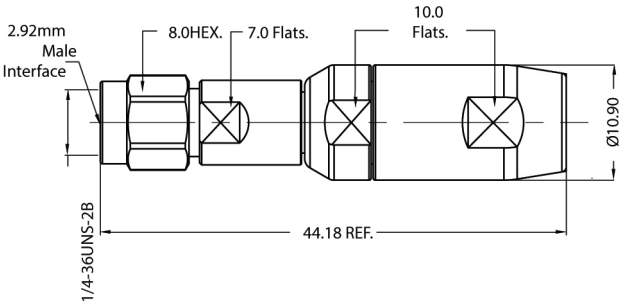


VF40-armor

Type	SMA Male	Code	SMM
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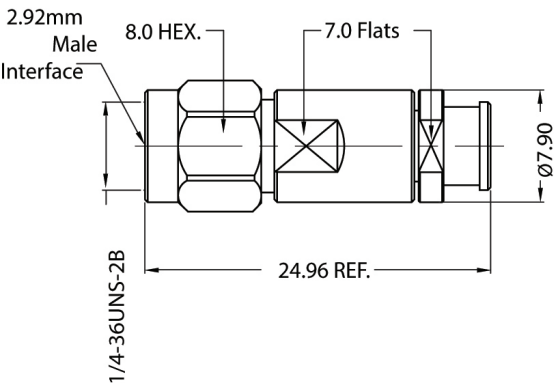
Type	2.92mm Male	Code	KMM
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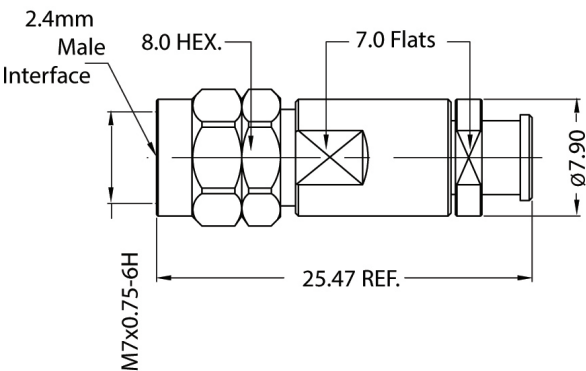
Available Standard Connectors

VF50

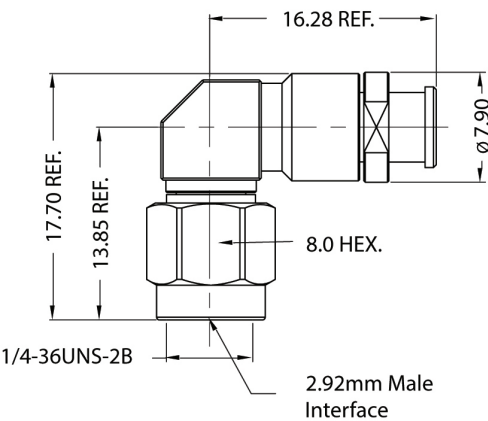
Type	2.92mm Male	Code	KMM
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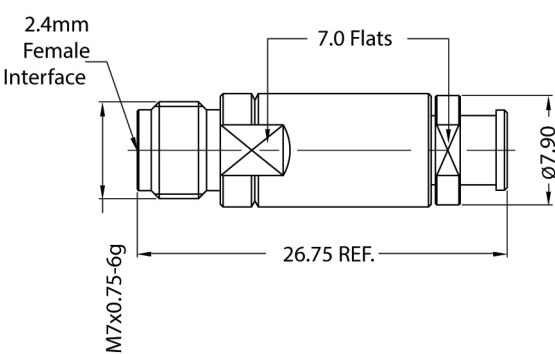
Type	2.4mm Male	Code	LMM
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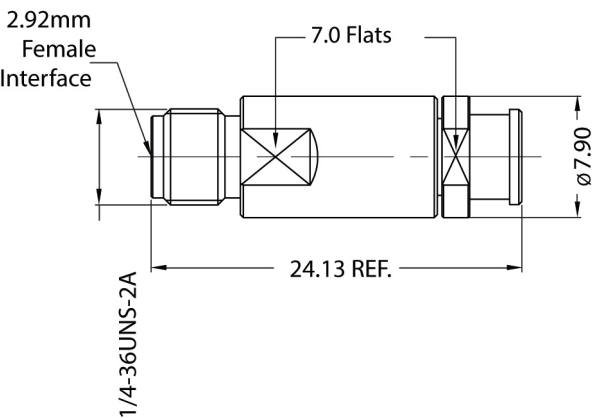
Type	2.92mm Male RA	Code	RKM
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Type	2.4mm Female	Code	LMF
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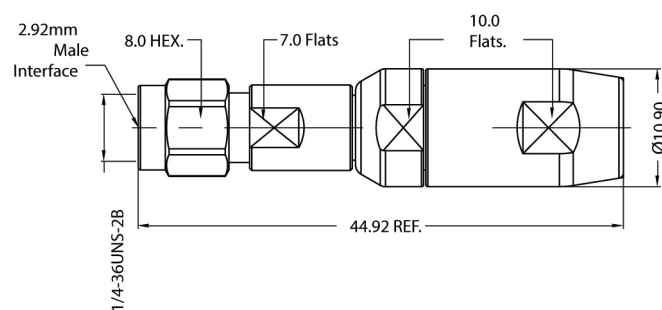
Type	2.92mm Female	Code	KMF
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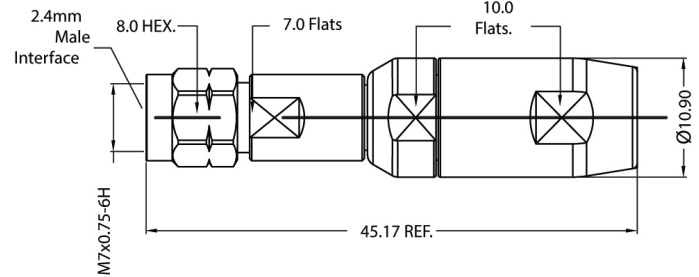
Available Standard Connectors

VF50-armor

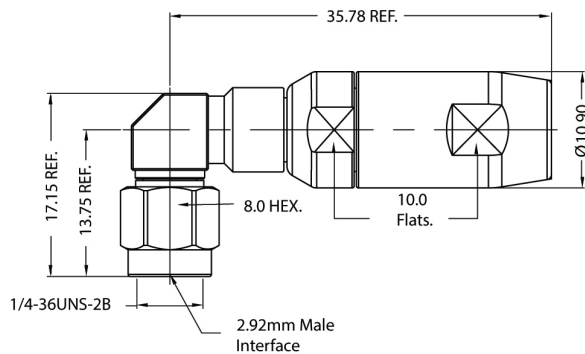
Type	2.92mm Male	Code	KMM
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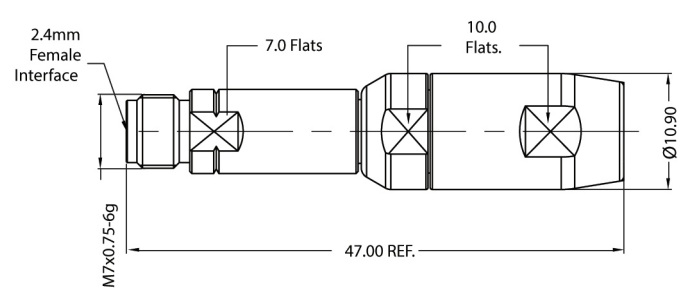
Type	2.4mm Male	Code	LMM
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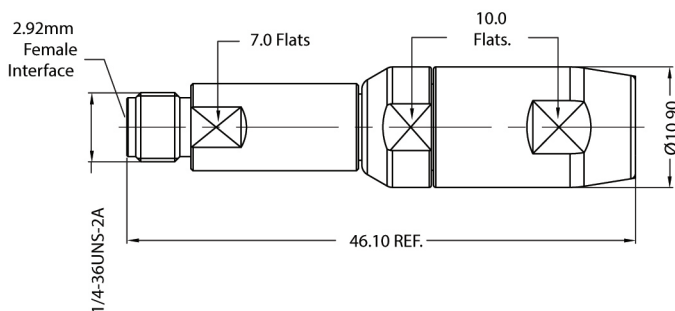
Type	2.92mm Male RA	Code	RKM
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Type	2.4mm Female	Code	LMF
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Type	2.92mm Female	Code	KMF
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