VEROFLEX

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

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

VF18-armor



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

VF26-armor

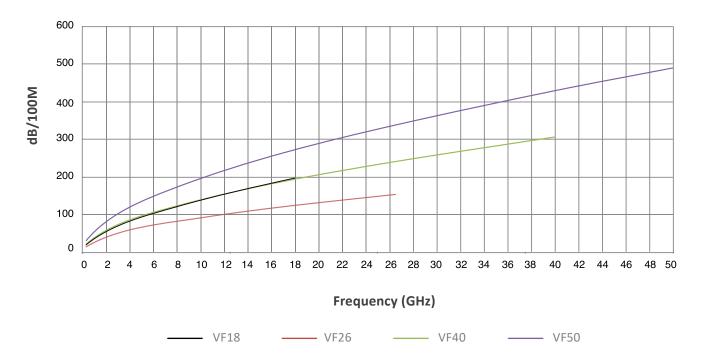
/W 14-1-1-2-2-2)[[
Center Conductor	Insulation	Dielectric	Out Conductor	Inner Layer	Shielding	Jacket	Armored Spring	Strengthening Net	Jacket
Strand Silver Plated Copper	FEP	PTFE	Silver Plated Copper Foil	PTFE	Silver Plated Copper	Blue PVC	Stainless steel strips	Silver Plated Copper	Blue PVC

VF40 & VF50

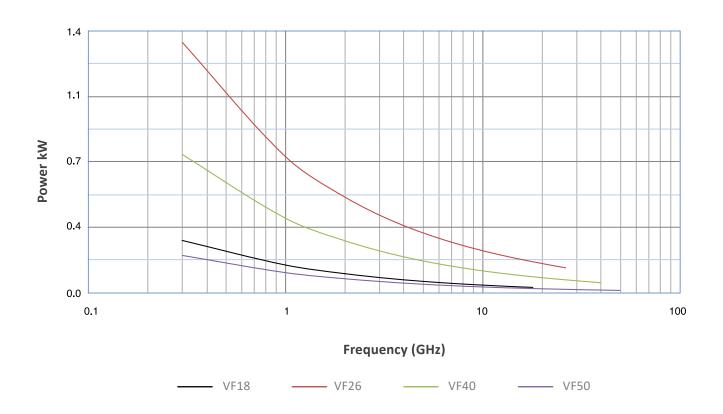
Center Conductor	Dielectric	Out Conductor	Inner Layer	Shielding	Jacket
Strand Silver Plated Copper	PTFE	Silver Plated Copper Foil	PTFE	Silver Plated Copper	Blue PVC

V	F40-armor	& 50-arr	nor		_			2222	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
	Center Conductor	Dielectric	Out 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

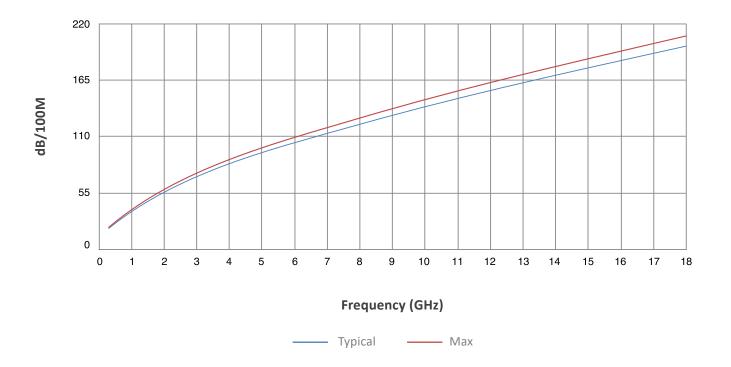




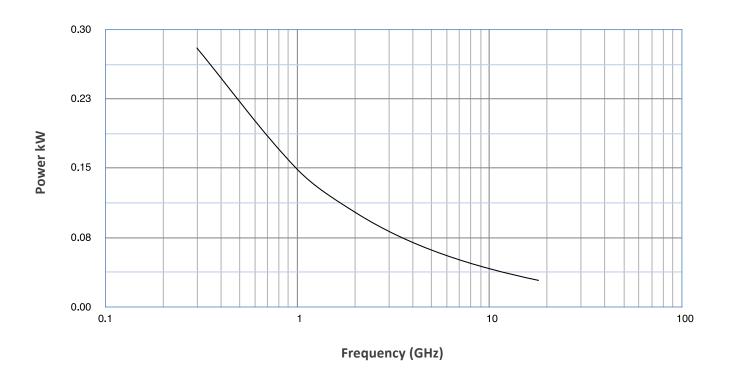
Specifications

Cable	VF18	VF18-armor	VF26	VF26-armor	VF40	VF40-armor	VF50	VF50-armor	
Center Conductor	Stra	nded	Stra	nded	Stra	nded	Stranded		
Overall Diameter (mm)	5.2	9.0	5.5	9.0	4.0	6.0	4.0	6.0	
Nominal Weight (g/m)	55	174	58	177	30	105	32	107	
Minimum Bend Radius (mm)	20	20	22	40	18	25	14	25	
Max Flex Cycles	200	,000	200),000	200,000		200),000	
Temperature Range (°C)	-40)/85	-40	0/85	-40	0/85	-40	0/85	
Maximum Frequency (GHz)	equency (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	1.3	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)	Ē	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.	1.83 1.45		.45	1.52		1.83		
Velocity of Propagation (Nominal) (%)	-	74	83		81		74		
Time Delay (Nominal)(ns/cm)	0.	045	0.0	0.0401		0.041		0.045	

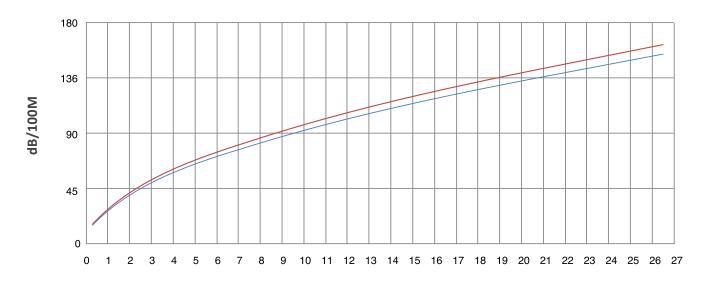
VF18 Attenuation



VF18 Average Power



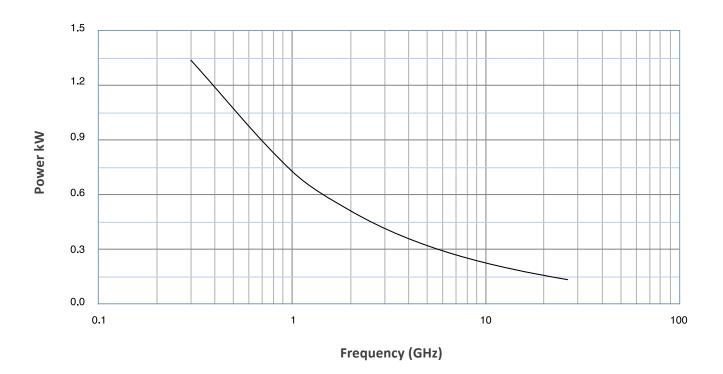
VF26 Attenuation



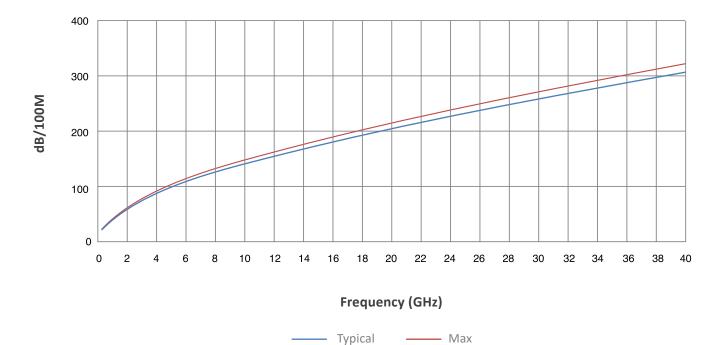
Frequency (GHz)



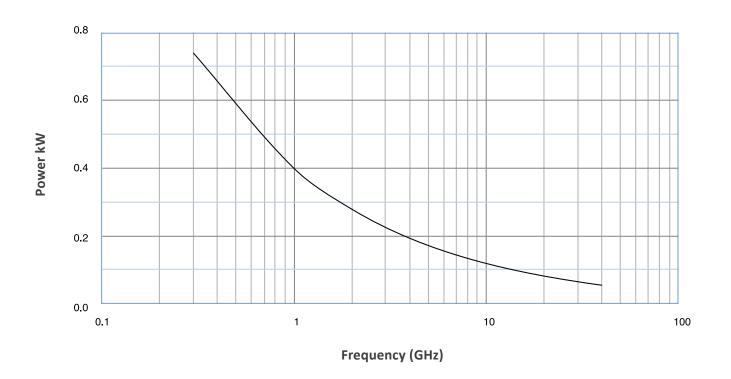
VF26 Average Power



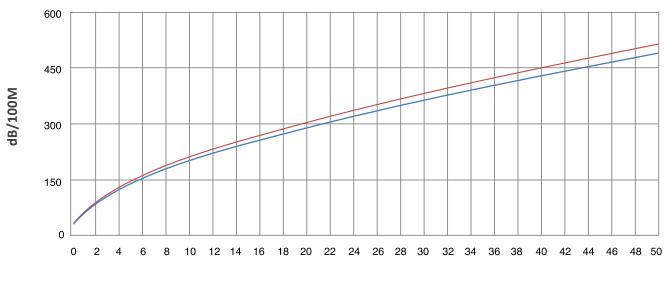
VF40 Attenuation



VF40 Average Power



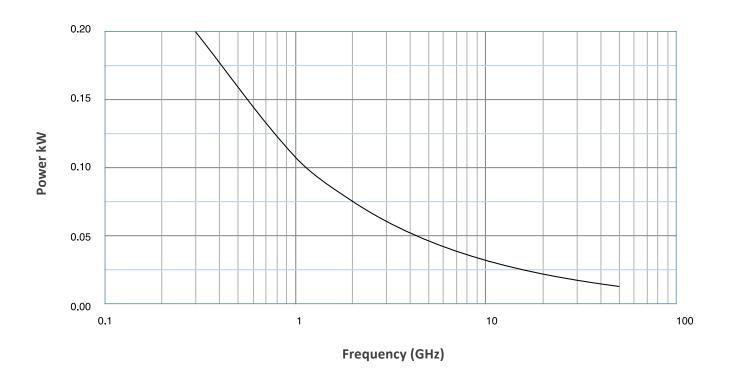
VF50 Attenuation



Frequency (GHz)



VF50 Average Power



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

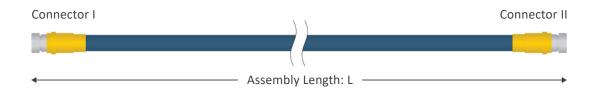
	VF18/VF1	.8 armor	VF26/VF2	26 armor	VF40/VF4	0 armor	VF50/VF5	0 armor
Frequency (MHz)	Attenuation (dB/100m)	Average Power (kW)						
300	20.45	0.890	15.39	0.800	22.33	0.740	31.38	0.200
1000	38.49	0.473	28.28	0.435	41.37	0.399	58.13	0.108
3000	69.87	0.261	49.50	0.249	73.36	0.225	103.01	0.061
4000	82.03	0.222	57.39	0.214	85.42	0.193	119.93	0.052
6000	103.25	0.176	70.74	0.174	106.10	0.156	148.92	0.042
8000	121.94	0.149	82.13	0.150	123.96	0.133	173.93	0.036
10000	139.00	0.131	92.26	0.133	140.00	0.118	196.40	0.032
12000	154.91	0.118	101.50	0.121	154.77	0.107	217.07	0.029
14000	169.95	0.107	110.06	0.112	168.57	0.098	236.38	0.027
18000	198.08	0.092	125.68	0.098	193.99	0.085	271.94	0.023
24000			146.46	0.084	228.33	0.072	319.93	0.020
26500			154.43	0.080	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*√FMHz + K2*FMHz

	VF18/VF18 armor	VF26/VF26 armor	VF40/VF40 armor	VF50/VF50 armor
K1	1.1370000	0.8811000	1.2657000	1.7798616
К2	0.0025300	0.0004150	0.0013435	0.0018415

^{© 2022} Verotronic Technologies Pte Ltd. All rights reserved. All information contained in this document is provided in connection with the products and services of Verotronic Technologies Pte Ltd (Verotronic). While every effort has been made to ensure accuracy, Verotronic assumes no responsibility for errors, omissions, or decisions made reliant upon this information. Verotronic may change related products, specifications, product description and documentation at any time, without prior notice. Any brand and logo depicted remain the intellectual property of its owner.

Selecting The Suitable Cable: Part Number Construction



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



1	Cable Type	Cable Code	2	Length Requirement
	VEROFlex Operating@Max 18GHz	VF18		1000mm

1ax 180	3112	VF18				1000	7111111	01	.000	
tor	4		(11)	Conne	ector	5				

3	Connector (I)	Connector Code
	SMA Male	SMM

Connector (II)	Connector Code
SMA Male	SMM

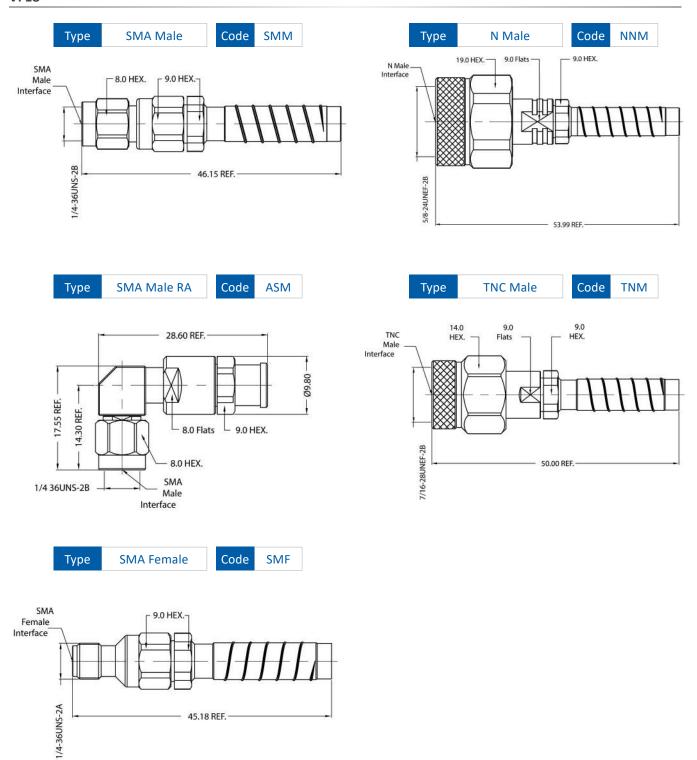
5	With Armor	No Armor			
	А	N			

Length Code

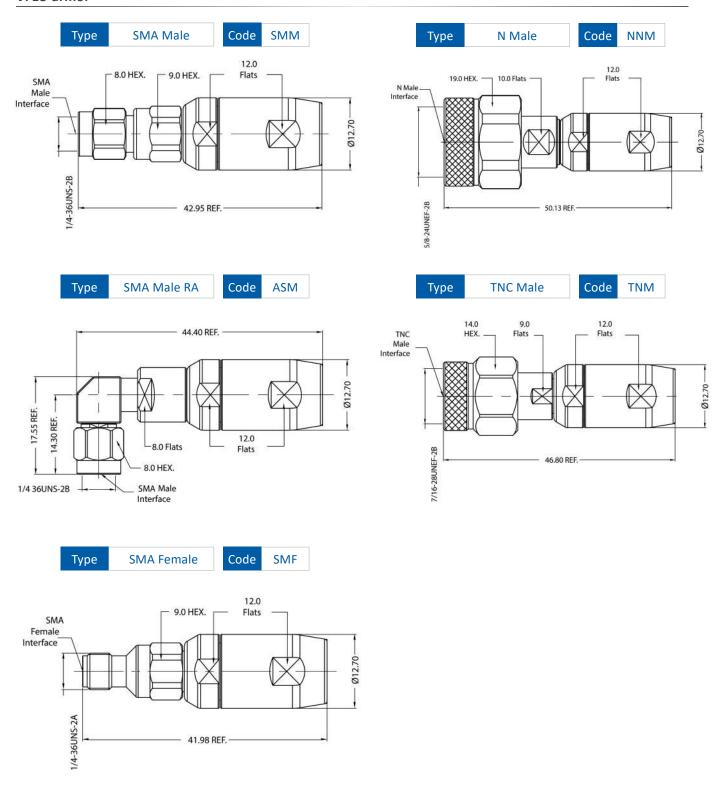
Criteria for Connector Selection

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

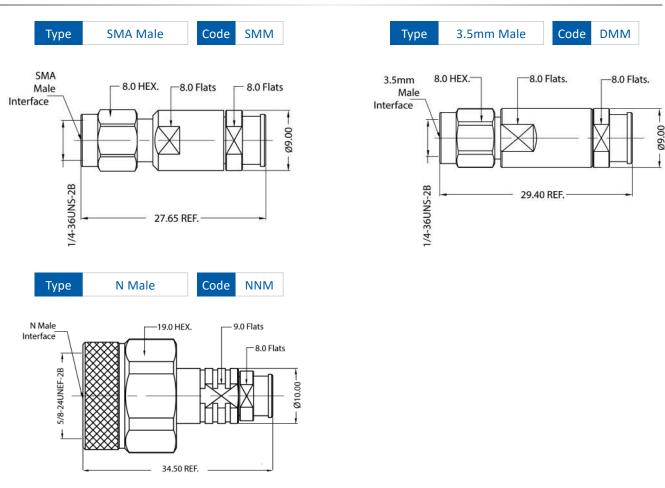
VF18



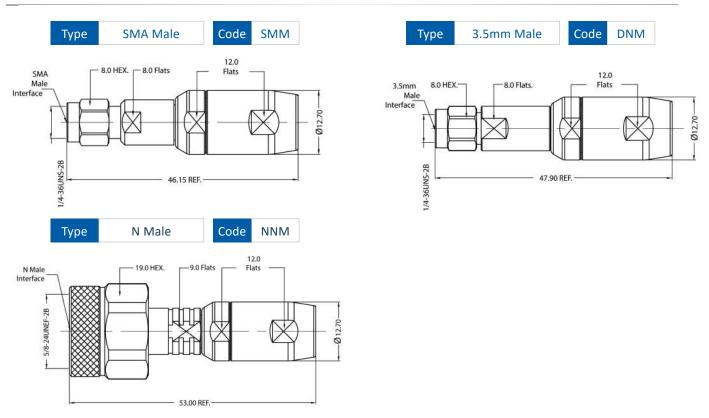
VF18-armor



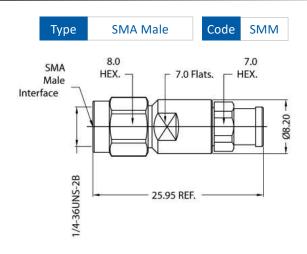
VF26

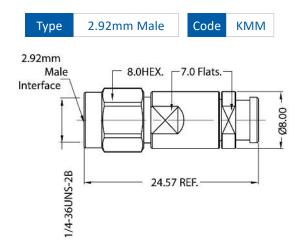


VF26-armor

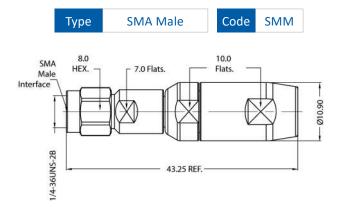


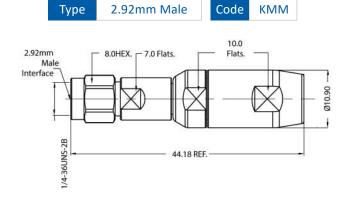
VF40

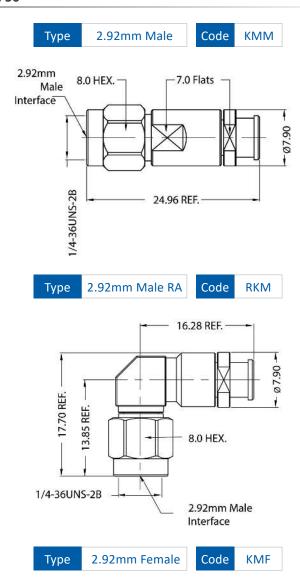


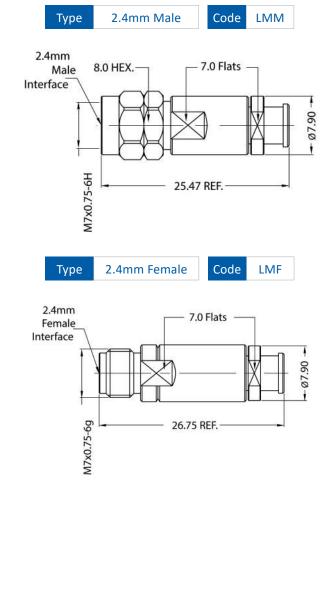


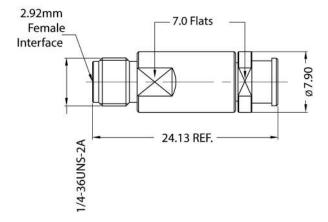
VF40-armor











VF50-armor

