

VEROSPACE

High performance low loss, amplitude and phase stable cable

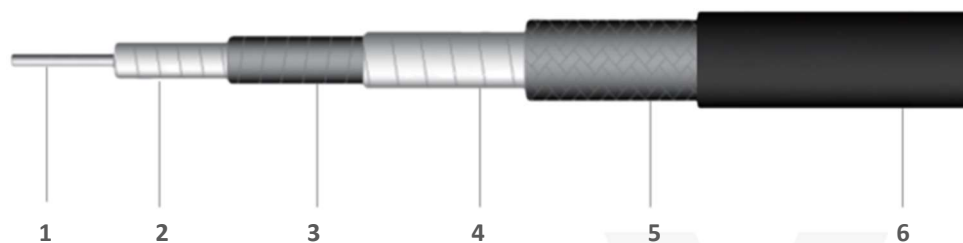
Features

- Quality Assurance
- Engineered for extreme environments
- Professional R&D
- Production Asset

Applications

- Inter-Satellite Communication
- Satellite-to-Terminal Communication
- Satellite-to-Gateway Communication

Cable Structure



1	Center Conductor	Solid SPC
2	Dielectric	LD-PTFE
3	Outer Conductor	SPC Tape
4	Inner Layer	LD-PTFE
5	Shielding	SPC Wire
6	Jacket	ETFE

Cable Type	Overall Dia. mm	Operation Freq. GHz	Weight g/m	Attenuation dB/m @ max F	Amp. Stability dB@ max F	Flight Certified
VS40L	2.3	40	14	4.7	±0.15	•
VS50	3.6	50	36	3.29	±0.15	•
VS40	4	40	37	2.2	±0.15	•
VS26	5.4	26.5	65	1.25	±0.10	•
VS18	8	18	140	0.67	±0.10	•

Mechanical Specifications:

Cable Type	VS40L	VS50	VS40	VS26	VS18
Center Conductor (mm)	0.51	0.75	1.02	1.45	2.30
Outer Conductor (mm)	1.54	2.32	3.00	4.20	6.57
Shielding (mm)	1.96	3.03	3.55	4.80	7.24
Jacket (mm)	2.30	3.60	4.00	5.40	8.00
Min. bend radius: Installation (mm)	10.0	14.0	20.0	27.0	40.0
Min. bend radius: Repeated (mm)	23.0	36.0	40.0	54.0	80.0
Weight (g/m)	14.0	30.0	37.0	65.0	140.0

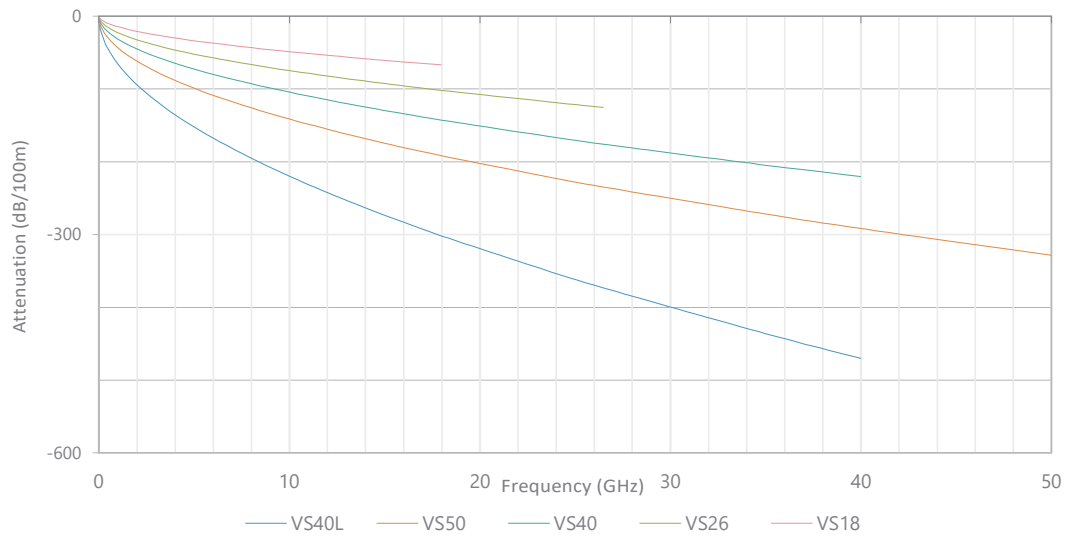
Electrical Specifications:

Cable Type	VS40L	VS50	VS40	VS26	VS18
Shielding eff. (dB)	≥ 90				
Impedance (Ohms)	50				
Frequency (GHz)	40.0	50.0	40.0	26.5	18.0
Vol. Withstand (V, AC)	500	800	900	1500	3600
Peak power (kW)	0.63	1.6	2.03	5.63	32.4
VP (%)	80.0	81.0	82.0	82.0	82.0

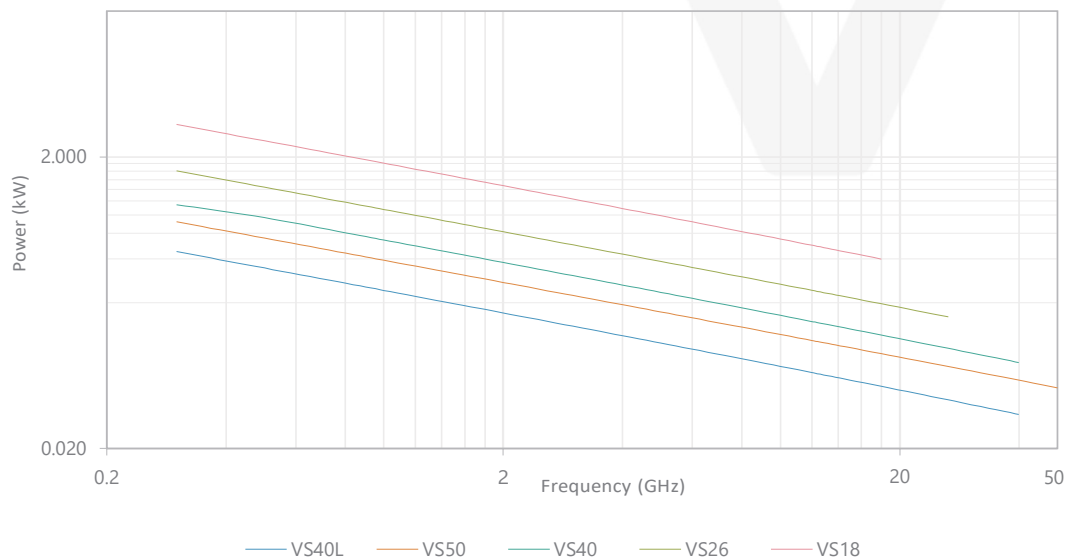
Environmental Specifications:

Cable Type	VS40L	VS50	VS40	VS26	VS18
Temp. range (°C)	-100~ +150				

Frequency & Attenuation



Frequency & Power



Connector Selection:

Connector Type	Mate	Max Operating Frequency (GHz)	VSWR	VS40L	VS50	VS40	VS26	VS18
1.85mm	Male	50.0	1.30		•			
2.4mm	Male	50.0	1.30		•			
2.4mm R/A	Male	50.0	1.40		•			
2.92mm	Male	40.0	1.30	•		•		
2.92mm	Male	26.5	1.30				•	
2.92mm Swept	Male	40.0	1.30	•		•		
2.92mm Swept	Male	26.5	1.30				•	
LSMP	Female	40.0	1.35	•		•		
LSMP Swept	Female	40.0	1.35	•		•		
SMA	Male	18.0	1.25	•		•	•	•
SMA R/A	Male	18.0	1.30	•		•	•	
SMA Swept	Male	18.0	1.25	•		•	•	•
SSMA	Male	18.0	1.25	•		•		
SMP	Female	18.0	1.30	•		•		
SMP R/A	Female	18.0	1.35	•		•		
TNC	Male	11.0	1.30				•	•
TNC R/A	Male	11.0	1.35					•
TNC Swept	Male	11.0	1.30				•	•