VEROTRONIC TECHNOLOGIES

High Performance Coax Cable

2026-04 V1.0

SERVED MARKET

TECHNOLOGY DRIVEN

OUR RF DEVELOPMENT TEAMS' CONTINUOUS RESEARCH AND DEVELOPMENT ENABLES VEROTRONIC TO BE A LEADER IN THE RF AND MICROWAVE INTERCONNECT SOLUTIONING

QUALITY AND RELIABILITY

VEROTRONIC HAS BEEN ADHERING TO THE HIGHEST STANDARD OF MANUFACTURING CATERING FOR NPI RAPID TURNAROUND PROTOTYPING TO SUPPORTING OF HIGH-VOLUME PRODUCTION.

SOLUTION FIRST APPROACH

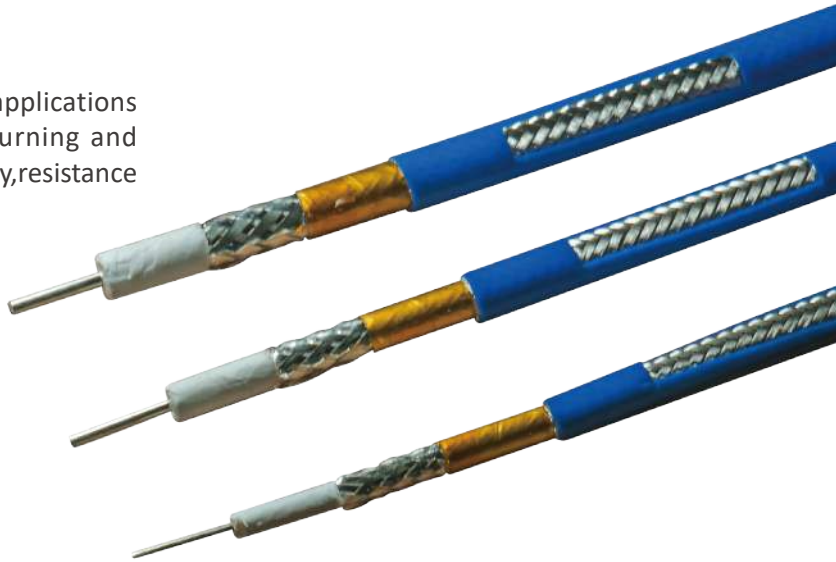
OUR ENGINEERING TEAM WORK CLOSELY WITH CUSTOMERS IN PROVIDING SOLUTIONS TO MEET THEIR APPLICATION AND ACHIEVING THE PERFORMANCE DESIRED

CUSTOMER FOCUSED

VEROTRONIC IS ALWAYS WORKING WITH OUR CUSTOMERS IN MIND AND PROVIDING 100% INSPECTION OF OUR PRODUCTS WITH QUICK DELIVERY INTERNATIONALLY

VTA

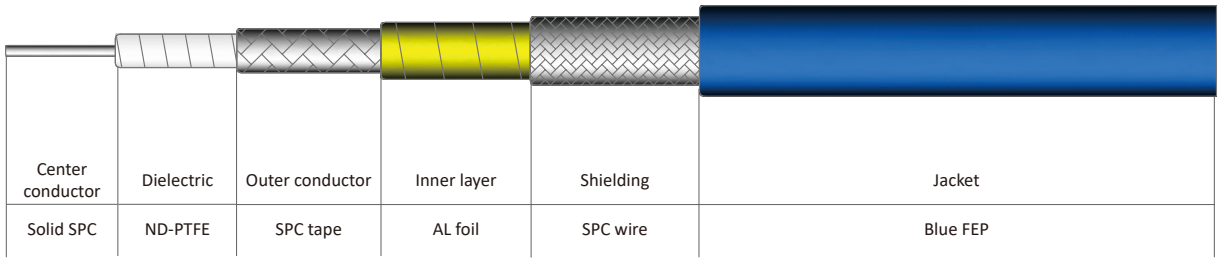
VTA series cable provides an economical solution for applications requiring high strength and resistance to bending, turning and crushing. It offers low loss, high power handling, reliability,resistance to harsh environments, durability, and long life.



Features

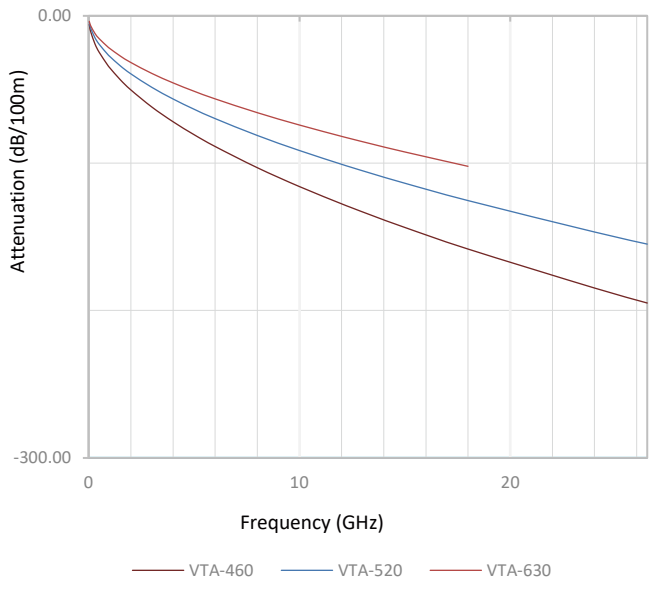
- High phase and attenuation stability vs bending
- Triple shielding provides >100dB shielding effectiveness
- Good bending performance
- Low loss
- High power handling
- Robust structure
- Long service life

Cable Structure

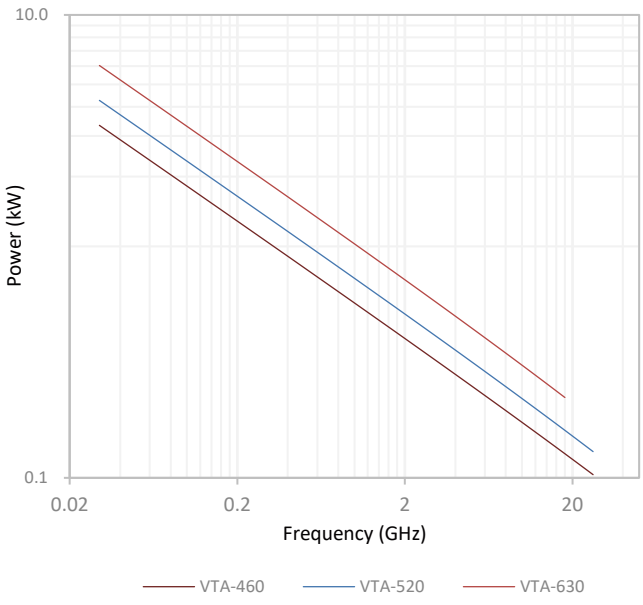


Center conductor	Dielectric	Outer conductor	Inner layer	Shielding	Jacket
Solid SPC	ND-PTFE	SPC tape	AL foil	SPC wire	Blue FEP

Attenuation



Avg. Power



Specifications

Cable Type	VTA-460	VTA-520	VTA-630
Center Conductor (mm)	1.02	1.29	1.57
Shielding (mm)	3.85	4.76	5.55
Jacket (mm)	4.50	5.20	6.00
Min. Bend Radius: Installation (mm)	20	25	32
Min. Bend Radius: Repeated (mm)	46	52	63
Weight (g/m)	50	60	90
Temperature Range (°C)	-55 to +200		

Cable Type	VTA-460	VTA-520	VTA-630
Frequency (GHz)	26.5	26.5	18.0
Shaking Amplitude (dB@Max F)	± 0.15	± 0.15	± 0.10
Voltage Withstand (V, DC)	1000	1500	2000
Peak Power (kW)	3	6	10
Velocity of Propagation	76%		
Dielectric Constant	1.73		
Time Delay (ns/m)	4.4		
Impedance (Ω)	50		
Shielding Effectiveness (dB)	≥90		

Cable Type	VTA-460		VTA-520		VTA-630	
Frequency MHz	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW
1000	35.37	0.569	27.67	0.726	22.18	1.024
3000	62.03	0.324	48.67	0.413	39.17	0.58
6000	88.78	0.227	69.87	0.288	56.43	0.403
8000	103.16	0.195	81.31	0.247	65.79	0.345
10000	115.97	0.174	91.53	0.219	74.18	0.306
18000	158.35	0.127	125.51	0.16	102.23	0.222
26500	194.93	0.103	155.04	0.13	/	/
K1	1.0994853		0.8562336		0.6827428	
K2	0.0006019		0.0005906		0.0005906	

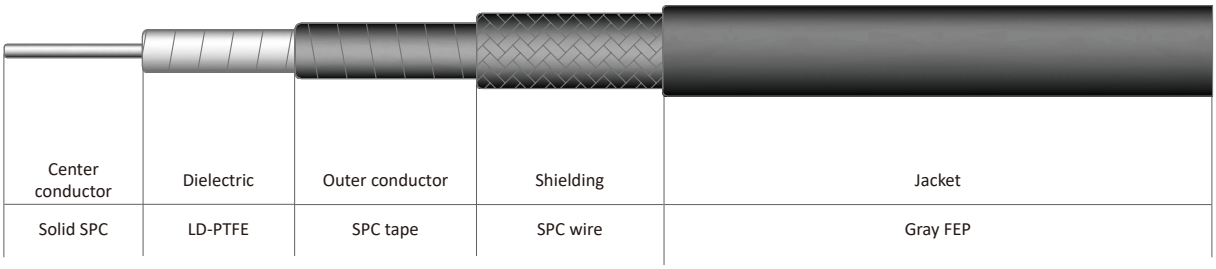
VTB

The VTB cable series comprehensively provides higher performance than typical low loss and phase stable cables with wide applications.

Features

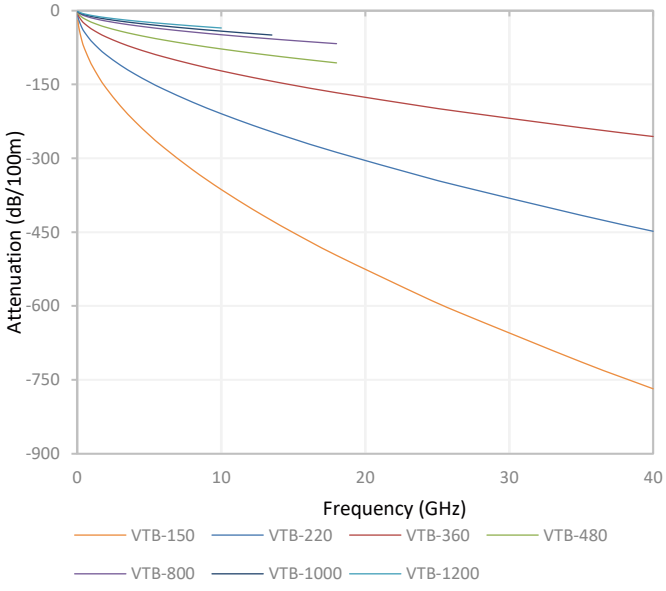
- Ultra-low loss
- Excellent mechanical and temp phase stability
- Excellent amplitude stability
- Light weight

Cable Structure

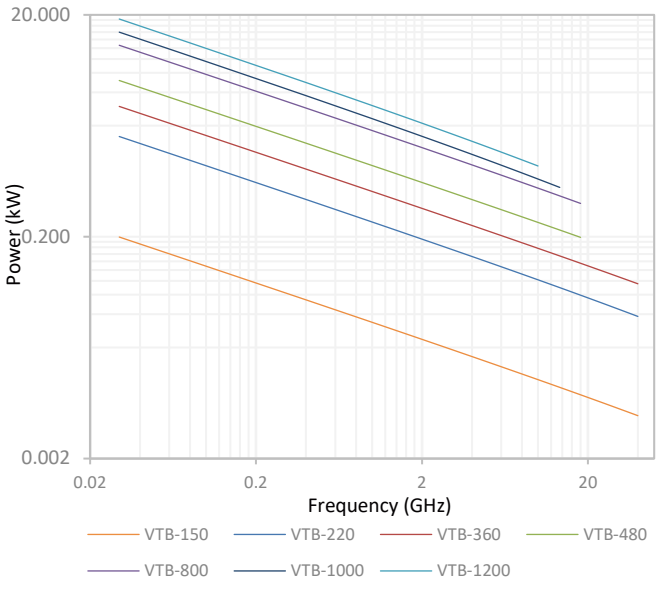


Center conductor	Dielectric	Outer conductor	Shielding	Jacket
Solid SPC	LD-PTFE	SPC tape	SPC wire	Gray FEP

Attenuation



Avg. Power



Specifications

Cable Type	VTB-150	VTB-220	VTB-360	VTB-480	VTB-800	VTB-1000	VTB-1200
Center Conductor (mm)	0.31	0.51	0.91	1.40	2.30	3.00	3.80
Shielding (mm)	1.25	1.94	3.1	4.35	7.15	9.20	11.35
Jacket (mm)	1.50	2.20	3.60	4.80	7.80	10.00	12.00
Min. Bend Radius: Installation (mm)	8	15	18	24	35	40	60
Min. Bend Radius: Repeated (mm)	15	22	36	50	80	100	110
Weight (g/m)	8	14	33	55	130	224	280
Temperature Range (°C)	-55 to +165						

Cable Type	VTB-150	VTB-220	VTB-360	VTB-480	VTB-800	VTB-1000	VTB-1200
Frequency (GHz)	40.0	40.0	40.0	18.0	18.0	13.5	10.0
Amp. stability (dB@Max F)	± 0.20	± 0.15	± 0.15	± 0.10	± 0.10	± 0.05	± 0.05
Phase stability (°@Max F)	±10	±10	±8	±8	±5	±5	±5
Voltage Withstand (V, DC)	500	500	900	1500	3600	4000	5000
Peak Power (kW)	0.63	0.63	3.00	5.60	32.40	40.00	62.5
Velocity of Propagation	80%	81%	82%	83%	83%	83%	83%
Dielectric Constant	1.56	1.52	1.49	1.45	1.45	1.45	1.45
Time Delay (ns/m)	4.16	4.11	4.06	4.01	4.01	3.92	4.01
Impedance (Ω)	50						
Shielding Effectiveness (dB)	≥90						

Cable Type	VTB-150		VTB-220		VTB-360		VTB-480		VTB-800		VTB-1000		VTB-1200	
Frequency MHz	dB/ 100 m	kW	dB/ 100 m	kW	dB/ 100 m	kW	dB/ 100 m	kW	dB/ 100 m	kW	dB/ 100 m	kW	dB/ 100 m	kW
1000	110.47	0.034	63.11	0.271	37.50	0.511	23.91	0.875	14.76	1.812	11.95	2.323	9.95	3.045
3000	193.96	0.019	111.16	0.154	65.65	0.292	41.85	0.500	25.98	1.029	21.46	1.294	17.88	1.694
6000	277.91	0.013	159.75	0.107	93.81	0.204	59.80	0.350	37.32	0.717	31.41	0.884	26.18	1.157
8000	323.11	0.012	186.01	0.092	108.91	0.176	69.42	0.301	43.44	0.615	36.91	0.752	30.78	0.984
10000	363.42	0.010	209.50	0.082	122.35	0.157	77.98	0.268	48.92	0.547	41.91	0.662	34.95	0.867
18000	497.00	0.008	287.72	0.059	166.67	0.115	106.22	0.197	67.13	0.398	/	/	/	/
26500	612.63	0.006	355.86	0.048	204.79	0.094	/	/	/	/	/	/	/	/
40000	767.98	0.005	448.00	0.038	255.69	0.075	/	/	/	/	/	/	/	/
K1	3.4284780		1.9500000		1.1684700		0.7450000		0.4563799		0.3587947		0.2985150	
K2	0.0020570		0.0014500		0.0005500		0.0003480		0.0003280		0.0006028		0.0005100	

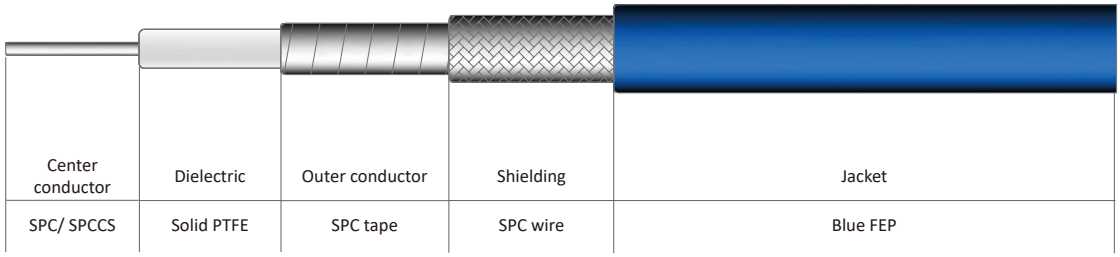
VTC

VTC series cable provides an economical replacement for hand formable cable and applications requiring greater flexibility and bending cycles. This series matches the performance of Times Flexible cables and uses the same connectors with standard semi-rigid cable. Typical applications for VTC series cable are test setups, interconnection, and instrumentation. It is available for quick delivery, with customization, and low MOQ.

Features

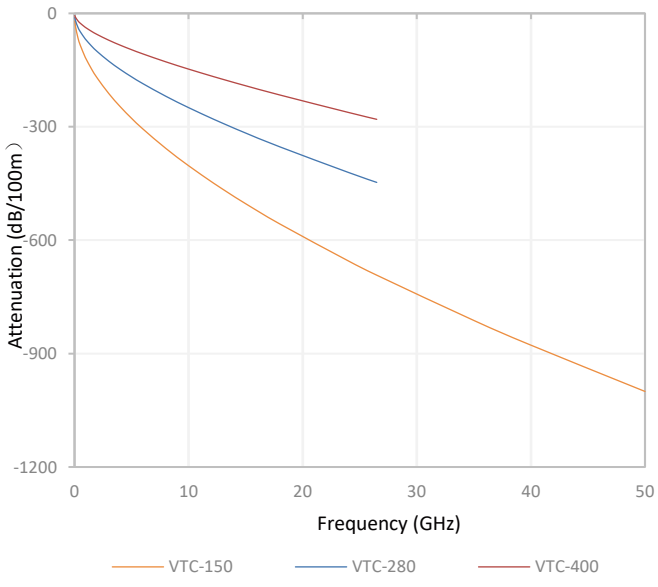
- Cost well controlled
- Flexibility
- Greater bending cycles
- Good electrical properties
- Long service life
- Replace to semi-rigid cable

Cable Structure

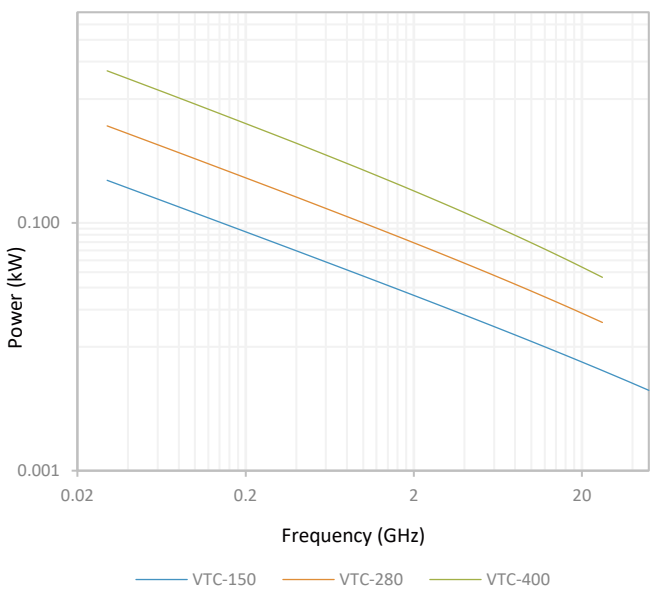


Center conductor	Dielectric	Outer conductor	Shielding	Jacket
SPC/ SPCCS	Solid PTFE	SPC tape	SPC wire	Blue FEP

Attenuation



Avg. Power



Specifications

Cable Type	VTC-150	VTC-280	VTC-400
Center Conductor (mm)	0.29	0.51	0.91
Outer Conductor (mm)	1.05	1.85	3.20
Shielding (mm)	1.25	2.15	3.55
Jacket (mm)	1.50	2.60	4.00
Min. Bend Radius: Installation (mm)	6	14	20
Min. Bend Radius: Repeated (mm)	10	28	40
Weight (g/m)	7	19	40
Temperature Range (°C)	-55 to +125		

Cable Type	VTC-150	VTC-280	VTC-400
Frequency (GHz)	50.0	26.5	26.5
Shaking Amplitude (dB@Max F)	± 0.15	± 0.15	± 0.10
Voltage Withstand (V, DC)	500	1000	1500
Peak Power (kW)	0.63	2.50	5.60
Velocity of Propagation	70%		
Dielectric Constant	2.04		
Time Delay (ns/m)	4.76		
Impedance (Ω)	50		
Shielding Effectiveness (dB)	≥90		

Cable Type	VTC-150		VTC-280		VTC-400	
Frequency MHz	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW
1000	119.76	0.037	70.34	0.100	38.17	0.267
3000	211.97	0.021	126.90	0.056	71.10	0.144
6000	306.07	0.015	186.48	0.038	107.46	0.095
8000	357.25	0.012	219.61	0.032	128.31	0.080
10000	403.20	0.011	249.75	0.028	147.61	0.069
18000	557.35	0.008	353.40	0.020	216.09	0.047
26500	692.94	0.006	447.42	0.016	280.53	0.036
40000	877.98	0.005	/	/	/	/
50000	1000.51	0.004	/	/	/	/
K1	1.0994853		0.8562336		0.6827428	
K2	0.0006019		0.0005906		0.0005906	

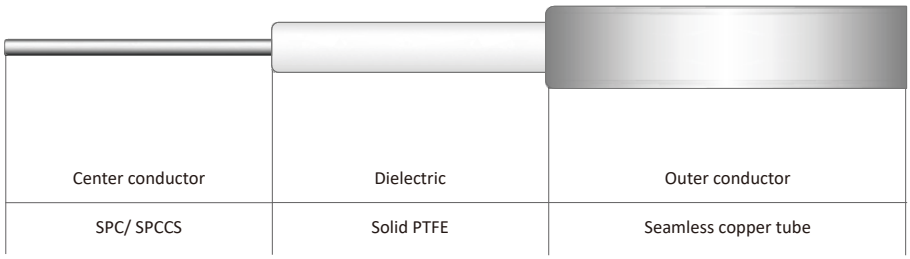
VTD

The VTD series semi-rigid RF coaxial cable delivers low loss, high shielding, and reliable performance in harsh environments. With standardized structure, customizable 3D bends, and diverse connector options, it ensures stable high-frequency transmission for varied application needs.

Features

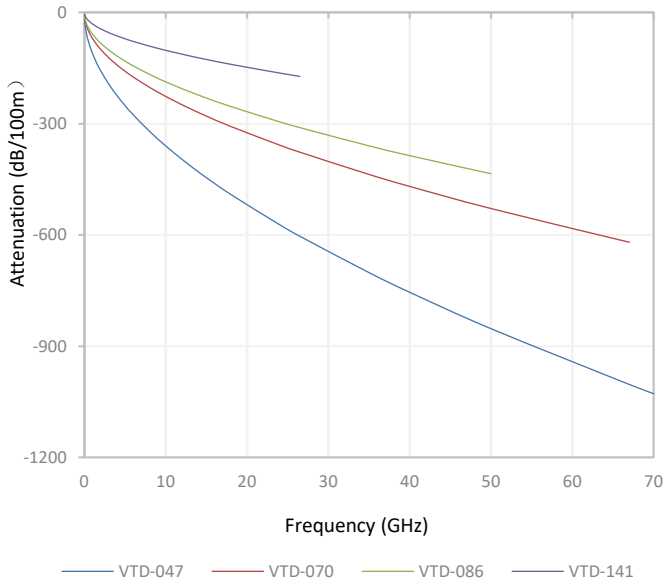
- Wide temperature operating range
- Less temperature-related phase change
- Lower loss
- Higher power handling
- Lighter weight
- Plenty connector options

Cable Structure

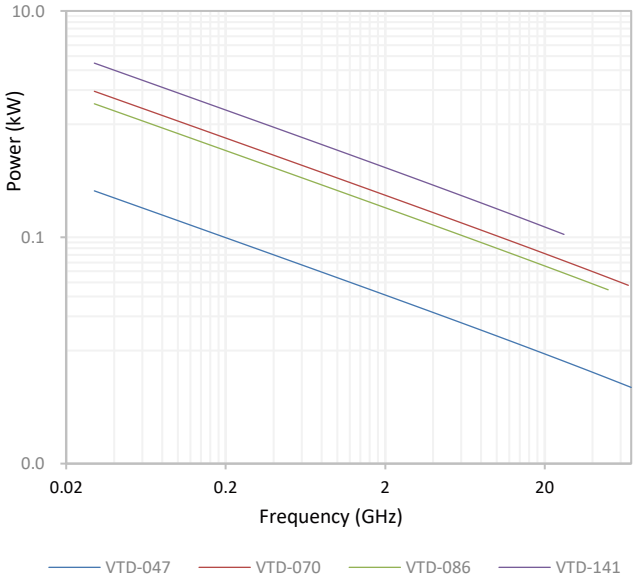


*Note: If no name suffix, seamless copper tube as default outer conductor; if there is "-TM", means coated with ternary alloy material; if there is"-TP"means coated with Tin.

Attenuation



Avg. Power



Specifications

Cable Type	VTD-047	VTD-070	VTD-086	VTD-141
Center Conductor (mm)	0.31	0.51	0.56	0.99
Outer Conductor (mm)	1.18	2.00	2.18	3.58
Min. Bend Radius: Installation (mm)	4	10	7	13
Weight (g/m)	6	12	19	43
Temperature Range (°C)	-60 to +150			

Cable Type	VTD-047	VTD-070	VTD-086	VTD-141
Frequency (GHz)	70.0	67.0	40.0	26.5
Voltage Withstand (V, DC)	300	300	600	1500
Peak Power (kW)	0.2	0.2	2	5.6
Velocity of Propagation	76%			
Dielectric Constant	1.73			
Time Delay (ns/m)	4.38			
Impedance (Ω)	50			
Shielding Effectiveness (dB)	≥120			

Cable Type	VTD-047		VTD-070		VTD-086		VTD-141	
Frequency MHz	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW
1000	109.90	0.044	69.80	0.335	57.80	0.259	30.98	0.59
3000	192.59	0.025	121.94	0.192	100.89	0.149	54.41	0.336
6000	275.44	0.018	173.90	0.135	143.77	0.104	77.98	0.234
8000	319.93	0.015	201.69	0.116	166.68	0.090	90.68	0.201
10000	359.55	0.013	226.37	0.103	187.01	0.080	102.01	0.179
18000	490.43	0.010	307.49	0.076	253.73	0.059	139.56	0.131
26500	603.24	0.008	376.94	0.062	310.75	0.048	172.09	0.106
40000	754.20	0.006	469.24	0.050	386.40	0.039	/	/
50000	852.49	0.006	528.98	0.044	435.28	0.034	/	/
67000	1002.83	0.005	619.87	0.038	/	/	/	/
K1	3.4200000		2.1811842		1.8081000		0.9610400	
K2	0.0017550		0.0008251		0.0006195		0.0005904	

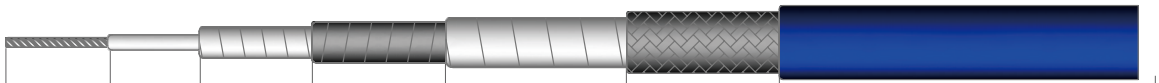
VTE

VTE series uses international leading low loss and stable RF cable technical-19 stranded conductor, low density PTFE dielectric, silver plated flat wire warp. This is the lowest loss structure among the flexible cables. This product can be widely used in repeated bending, ultra-flexible, extra requirement of ultra-low loss and phased application.

Features

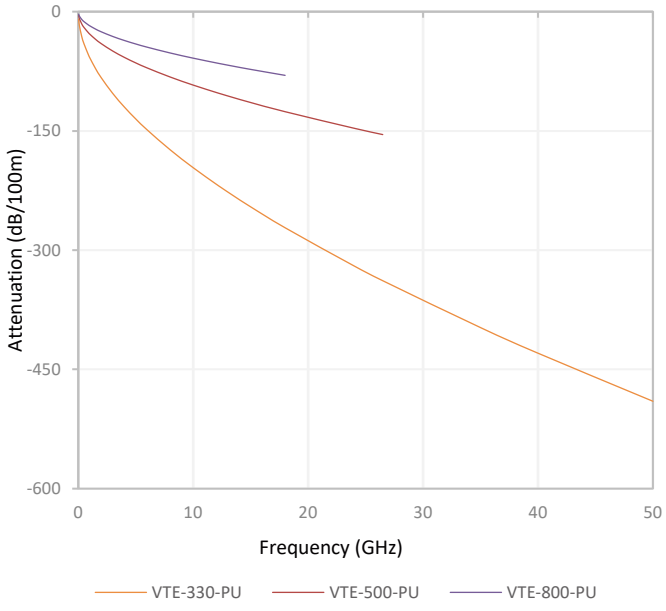
- Ultra flexible
- Phase stable
- Durable repeat bending
- Low loss
- Good shielding

Cable Structure

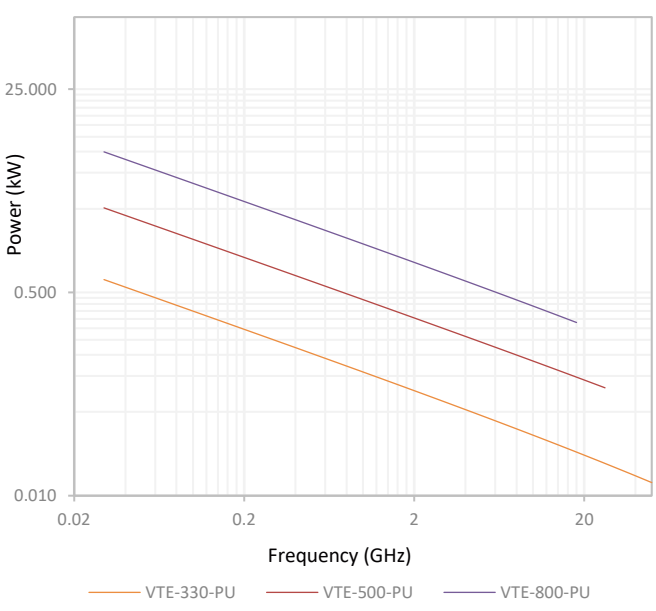


Center conductor	Insulation	Dielectric	Outer conductor	Inner layer	Shielding	Jacket
Stranded SPC	FEP	LD-PTFE	SPC tape	PTFE	SPC wire	Blue PUR

Attenuation



Avg. Power



Specifications

Cable Type	VTE-330-PU	VTE-500-PU	VTE-800-PU
Center Conductor (mm)	0.72	1.44	2.30
Outer Conductor (mm)	2.30	4.05	6.52
Shielding (mm)	3.00	4.61	7.23
Jacket (mm)	4	5.5	8.5
Min. Bend Radius: Installation (mm)	16	20	43
Min. Bend Radius: Repeated (mm)	36	50	86
Weight (g/m)	30	53	140
Temperature Range (°C)	-40 to +85		

Cable Type	VTE-330-PU	VTE-500-PU	VTE-800-PU
Frequency (GHz)	50.0	26.5	18.0
Shaking Amplitude (dB@Max F)	± 0.15	± 0.10	± 0.10
Voltage Withstand (V, DC)	1000	1500	3600
Peak Power (kW)	2.5	5.6	32.4
Velocity of Propagation	74%	80%	83%
Dielectric Constant	1.83	1.56	1.45
Time Delay (ns/m)	4.5	4.16	4.01
Impedance (Ω)	50		
Shielding Effectiveness (dB)	≥90		

Cable Type	VTE-330-PU		VTE-500-PU		VTE-800-PU	
Frequency MHz	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW
1000	58.12	0.108	28.28	0.435	17.70	1.269
3000	103.01	0.061	49.50	0.249	31.13	0.722
6000	148.92	0.042	70.74	0.174	44.68	0.503
8000	173.93	0.036	82.13	0.150	52.00	0.432
10000	196.40	0.032	92.26	0.133	58.54	0.384
18000	271.94	0.023	125.68	0.098	80.27	0.280
26500	338.54	0.019	154.43	0.080	/	/
40000	429.63	0.015	/	/	/	/
50000	490.06	0.013	/	/	/	/
K1	1.7798616		0.8811000		0.5476560	
K2	0.0018415		0.0004150		0.0003772	

VTF

VTF series cable combines low cost with low loss while meeting military performance requirements. This cable uses a low-density PTFE tape core dielectric and AL tape outer conductor. It is especially suited for longer cable assemblies and typical applications including interconnections, base stations, and wireless.

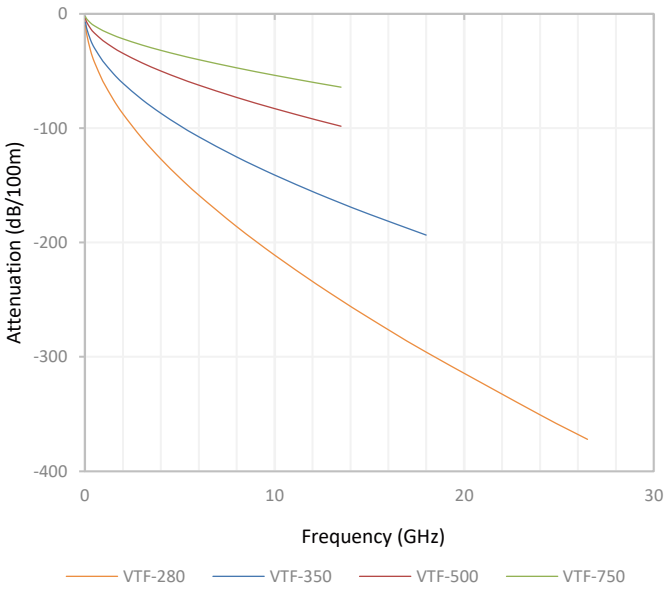
Features

- Low cost
- Low loss
- Good amplitude stability
- Good high temperature performance
- Good fire resistance

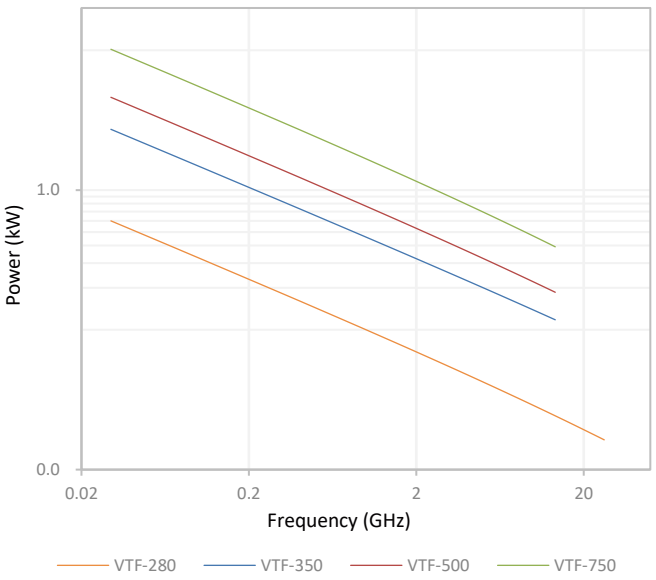
Cable Structure

Center conductor	Dielectric	Outer conductor	Shielding	Jacket
Solid SPC	LD-PTFE	SPC tape	SPC wire	Gray FEP

Attenuation



Avg. Power



Specifications

Cable Type	VTF-280	VTF-350	VTF-500	VTF-750
Center Conductor (mm)	0.56	0.94	1.45	2.30
Outer Conductor (mm)	1.68	2.82	4.38	6.80
Shielding (mm)	2.05	3.27	4.78	7.25
Jacket (mm)	2.60	3.50	5.20	7.80
Min. Bend Radius: Installation (mm)	12	14	20	35
Min. Bend Radius: Repeated (mm)	28	35	52	75
Weight (g/m)	15.5	29	60	125
Temperature range (°C)	-55 to +150			

Cable Type	VTF-280	VTF-350	VTF-500	VTF-750
Frequency (GHz)	26.5	18.0	13.5	13.5
Voltage Withstand (V, DC)	500	800	1500	2000
Peak Power (kW)	0.6	1.6	5.6	10
Velocity of Propagation	76%			
Dielectric Constant	1.73			
Time Delay (ns/m)	4.38			
Impedance (Ω)	50			
Shielding Effectiveness (dB)	≥90			

Cable Type	VTF-280		VTF-350		VTF-500		VTF-750	
Frequency MHz	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW
1000	60.67	0.100	42.43	0.461	23.79	0.766	15.07	1.674
3000	108.63	0.056	74.71	0.262	42.59	0.428	27.23	0.926
6000	158.55	0.038	107.36	0.182	62.14	0.293	40.09	0.629
8000	186.08	0.033	125.01	0.156	72.92	0.250	47.25	0.534
10000	211.00	0.029	140.78	0.139	82.68	0.220	53.78	0.469
18000	295.92	0.021	193.32	0.101	/	/	/	/
26500	372.10	0.016	/	/	/	/	/	/
K1	1.8300000		1.3110233		0.7180000		0.4480000	
K2	0.0028000		0.0009680		0.0010880		0.0008980	

VTG

VTG Series are specially designed by Verotronic after communicating with customers, and well understand coaxial cable materials and construction, benefit to which having stable low loss, low price, and take advantages to meet military and wireless market requirements.

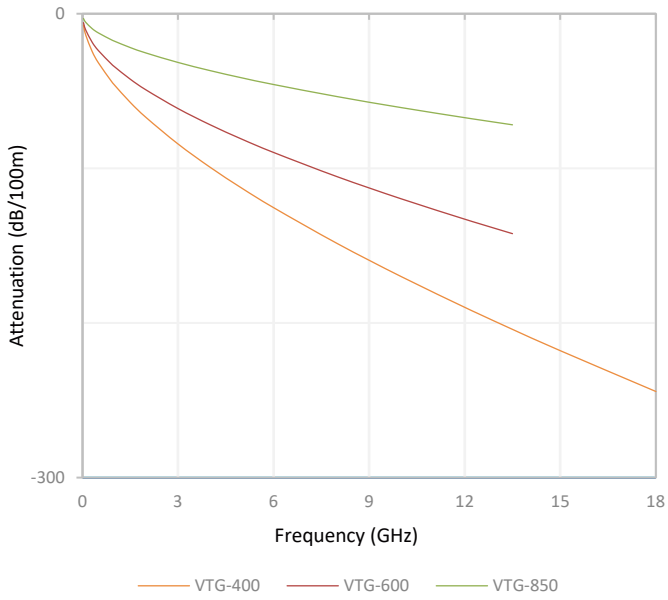
Features

- Cost effective product
- Ultra-flexible
- Long working life
- Short lead time

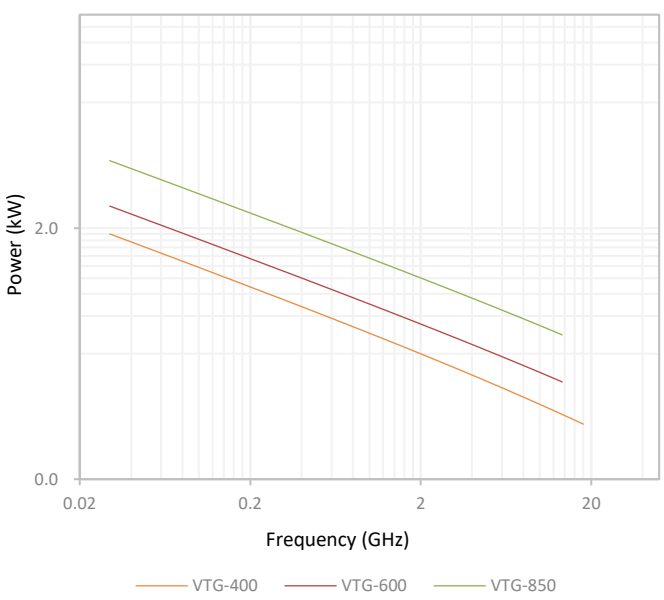
Cable Structure

Center conductor	Insulation	Dielectric	Outer conductor	Shielding	Jacket
Stranded SPC	FEP	LD-PTFE	AL foil	SPC wire	Blue PUR

Attenuation



Avg. Power



Specifications

Cable Type	VTG-400	VTG-600	VTG-850
Center Conductor (mm)	0.91	1.45	2.30
Outer Conductor (mm)	2.73	4.28	6.68
Shielding (mm)	3.18	4.73	7.25
Jacket (mm)	4.00	6.00	8.20
Min. Bend Radius: Installation (mm)	16	20	35
Min. Bend Radius: Repeated (mm)	40	60	82
Weight (g/m)	30	63	125
Temperature Range (°C)	-55 to +85		

Cable Type	VTG-400	VTG-600	VTG-850
Frequency (GHz)	18.0	13.5	13.5
Voltage Withstand (V, DC)	800	1500	2000
Peak Power (kW)	1.6	5.6	10
Velocity of Propagation	76%		
Dielectric Constant	1.73		
Time Delay (ns/m)	4.38		
Impedance (Ω)	50		
Shielding Effectiveness (dB)	≥90		

Cable Type	VTG-400		VTG-600		VTG-850	
Frequency MHz	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW
1000	46.04	0.291	34.11	0.497	17.61	1.151
3000	84.25	0.159	61.26	0.277	31.42	0.645
6000	125.39	0.107	89.64	0.189	45.70	0.443
8000	148.59	0.090	105.34	0.161	53.55	0.378
10000	169.87	0.079	119.59	0.142	60.63	0.334
18000	244.18	0.055	/	/	/	/
K1	1.3437405		1.0245600		0.5339645	
K2	0.0035500		0.0017130		0.0007236	

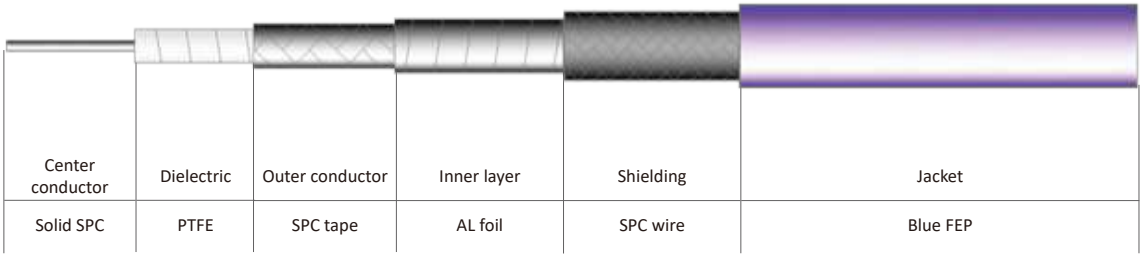
VTH

VTH series cables offer excellent bending, strong retention, and outstanding phase stability. They can replace rectangular curved connectors, save installation space, and enable neat, compact systems. Unlike semi-rigid cables, VTH cables bend flexibly on-site without custom design, reducing cost and engineering effort, while solder-free connectors enhance reliability and durability.

Features

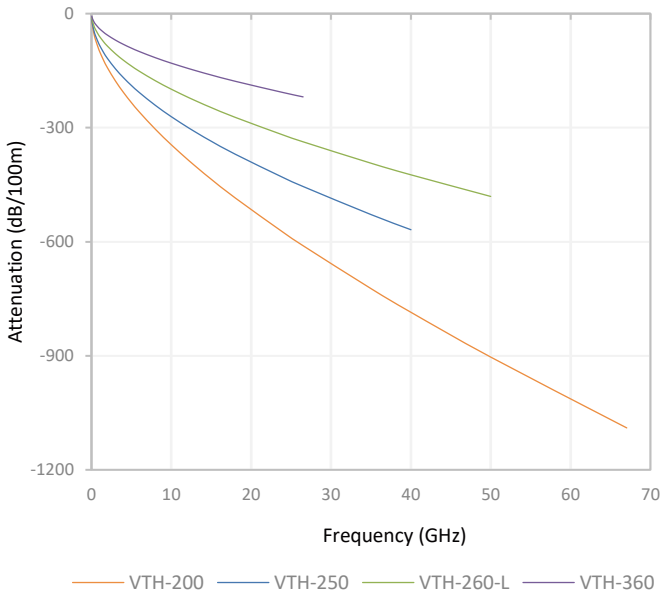
- Point-to-point interconnection between RF modules
- Interconnection between boards
- Cabinet internal jumper
- Flexible replacement for semi-rigid assemblies
- Radar and electronic warfare systems

Cable Structure

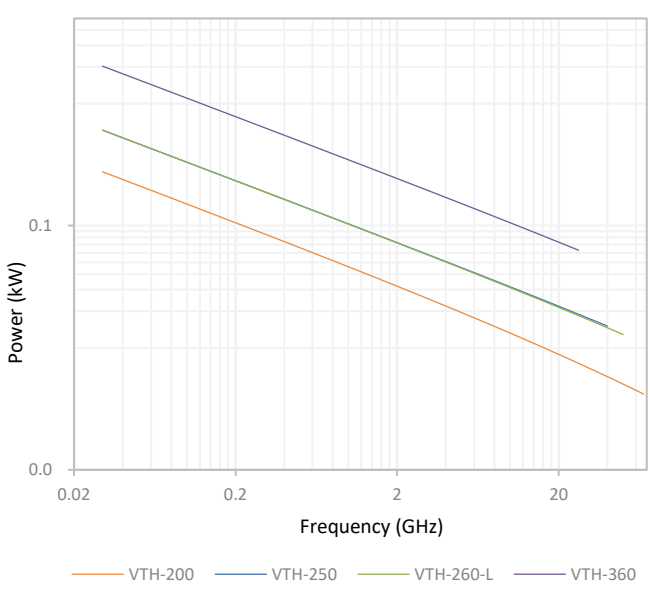


Center conductor	Dielectric	Outer conductor	Inner layer	Shielding	Jacket
Solid SPC	PTFE	SPC tape	AL foil	SPC wire	Blue FEP

Attenuation



Avg. Power



Specifications

Cable Type	VTH-200	VTH-250	VTH-260-L	VTH-360
Center Conductor (mm)	0.36	0.51	0.56	0.91
Outer Conductor (mm)	1.30	1.82	1.85	2.79
Shielding (mm)	1.66	2.12	2.24	3.20
Jacket (mm)	2.00	2.50	2.64	3.61
Min. Bend Radius: Installation (mm)	8.0	10.0	10.6	14.5
Min. Bend Radius: Repeated (mm)	20.0	25.0	26.4	36.0
Weight (g/m)	10	18	17	31
Temperature Range (°C)	-55 to +125		-55 to +165	

Cable Type	VTH-200	VTH-250	VTH-260-L	VTH-360
Frequency (GHz)	67.0	40.0	50.0	26.5
Voltage Withstand (V, DC)	700	1000	500	1500
Peak Power (kW)	1.2	3.0	0.6	5.6
Velocity of Propagation	70%		76%	
Dielectric Constant	2.04		1.73	
Time Delay (ns/m)	4.76		4.38	
Impedance (Ω)	50.00			
Shielding Effectiveness (dB)	≥90			

Cable Type	VTH-200		VTH-250		VTH-260-L		VTH-360	
Frequency MHz	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW	dB/100 m	kW
1000	98.73	0.046	82.91	0.103	60.12	0.103	39.80	0.346
3000	177.07	0.026	145.26	0.059	105.78	0.059	69.76	0.198
6000	258.82	0.018	207.71	0.041	151.87	0.041	99.80	0.138
8000	303.98	0.015	241.23	0.036	176.76	0.035	115.94	0.119
10000	344.91	0.013	271.08	0.032	199.00	0.031	130.31	0.106
18000	484.66	0.009	369.65	0.023	272.95	0.023	177.80	0.078
26500	610.34	0.007	454.58	0.019	337.24	0.018	218.77	0.063
40000	785.44	0.006	568.16	0.015	424.00	0.015	/	/
50000	903.38	0.005	/	/	480.91	0.013	/	/
67000	1089.35	0.004	/	/	/	/	/	/
K1	2.9709905		2.5808091		1.8600000		1.2380700	
K2	0.0047810		0.0013000		0.0013000		0.0006499	

VTK

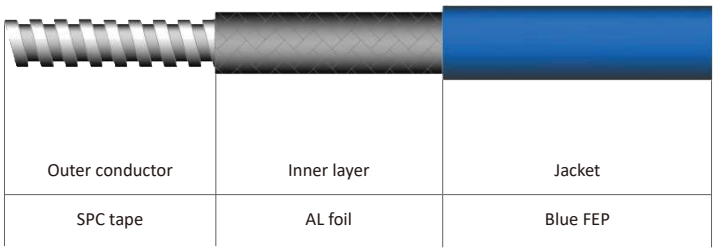
Armor Structure & Feature

Ultra-Flexible Armors

- Ultra-flexible
- Waterproof
- Anti-stress
- Anti-torsion
- High temperature resistance

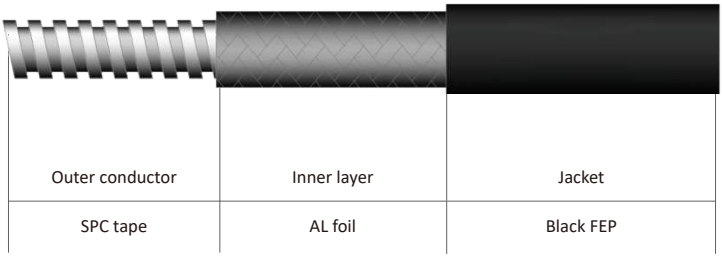
Flexible Armors

- Flexible
- Anti-stress
- Wear-resistant
- Cutting resistance



High-temp Flexible Armors

- Flexible
- Anti-stress
- Wear-resistant
- Cutting resistance
- High temperature resistance



P/N	Type	Inner dia. (mm)	Overall dia. (mm)	Min. bend R (mm)	Anti-stress (N/5cm)	Temperature (°C)	Suitable cable
VTK-101	High-temp Flexible Armor	6.2	10	40.00	2000	-55 to +125	VTB-480
VTK-106	High-temp Flexible Armor	10	14.5	60.00	2000	-55 to +125	VTB-800
VTK-107	Ultra-Flexible Armor	5.7	7.95	30	1000	-55 to +125	VTB-480
VTK-108	Ultra-Flexible Armor	4.1	6	21.00	1000.000	-55 to +125	VTB-360
VTK-109	Ultra-Flexible Armor	8.5	10.4	36.50	700.000	-55 to +125	VTB-800
VTK-110	Flexible Armor	6.2	10.8	40.00	2000.000	-55 to +85	VTB-480
VTK-121	Ultra-Flexible Armor	3	4.7	11.50	1000.000	-55 to +125	VTB-220, VTB-230
VTK-127	Flexible Armor	10	15.75	60.00	2000.000	-55 to +85	VTB-800

VEROTRONIC
TECHNOLOGIES

OUR VISION

BE A GLOBAL LEADER IN RF AND MICROWAVE INTERCONNECT SOLUTIONS, SERVING ASIA AND BEYOND

OUR MISSION

TO BE THE PREFERRED PARTNER OF RF INTERCONNECT, CONTINUOUSLY IMPROVE OUR PROCESS AND DELIVER HIGH-QUALITY, RELIABLE AND EFFICIENT SOLUTIONS THAT EXCEED CUSTOMER EXPECTATIONS

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