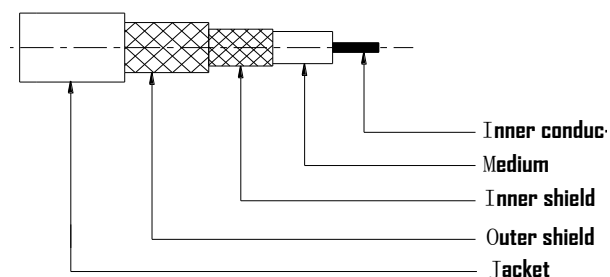


ST Series Test Cable Assembly→→

ST06 Series Test Cable Assembly

ST06 (DC-6GHz) has stable performance, such as flexibility, long life span, low loss and stable phase. It's an ideal product applied in lab test, frequent product line test, mobile base station, etc.



Cable Structure

Inner Conductor: silver plated copperwire

Insulation: PE

Inner Shield: silver plated copperwire braid

Outer Shield: silver plated copperwire braid

Jacket: PVC

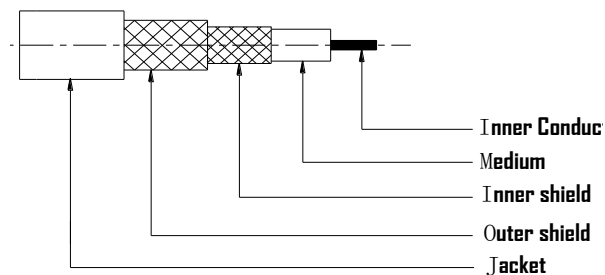


Physical Characteristics				
Specification	mm		inch	
Inner Conductor	0.90		0.035	
Insulation	2.95		0.116	
Inner Shield	3.45		0.136	
Outer Shield	3.95		0.156	
Armor	5.30		0.209	
Weight	0.056kg/m			
Min Bending Radius (dynamic)	25.4mm			
Durability	>5000			
Working Temp.	-45℃~+80℃			
Electrical Characteristics				
VSWR Max		1GHz	3GHz	6GHz
	SMA	1.10:1	1.15:1	1.25:1
	N	1.10:1	1.15:1	1.25:1
	BNC	1.15:1	1.25:1	
Impedance	50 ohms			
Velocity	66%			
Screening Effectiveness	>80 dB			
Capacitance	30.8pf/ft=101pf/m			
Bending Amplitude Stability	≤±0.05dB@6GHz			
Bending Phase Stability	±2° @6GHz			
Attenuation(25℃)				
Frequency (MHz)	dB/100ft		dB/100m	
100	3.99		13.1	
400	8.20		26.9	
1000	13.41		44.0	
3000	24.81		81.4	
5000	33.50		109.9	
6000	41.51		136.2	
Power handling@25℃&Sea Level(cable only)				
Frequency (MHz)	Watts			
100	140			
400	86			
1000	52			
3000	20			
5000	17			
6000	15			

ST Series Test Cable Assembly→→

ST06S Series Ultra Flexible Test Cable Assembly

ST06S (DC-6GHz) has stable performance, such as flexibility, long life span, low loss and stable phase. Usually, ST06S is equipped with strengthened precision connector. It's an ideal product applied in lab test, frequent product line test, mobile base station, etc.



Cable Structure

Inner Conductor: silver plated copper wire

Insulation: PTFE

Inner Shield: silver plated copper wire braid

Outer Shield: silver plated copper wire braid

Jacket: PVC



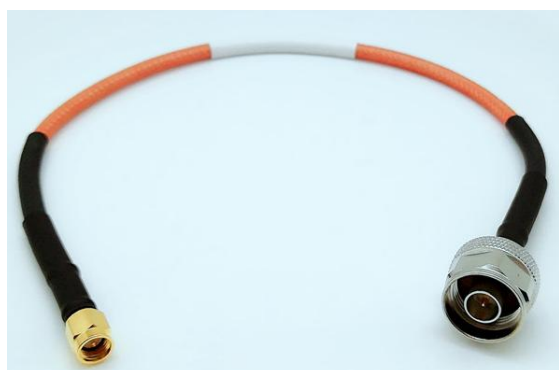
Physical Characteristics				
Specification		mm	inch	
Inner Conductor		0.92	0.036	
Insulation		3.00	0.118	
Inner Shield		3.50	0.138	
Outer Shield		3.95	0.156	
Armor		5.20	0.205	
Weight		0.062kg/m		
Min Bending Radius (dynamic)		25.4mm		
Durability		>5000		
Working Temp.				
Electrical Characteristics				
VSWR Max		1GHz	3GHz	6GHz
	SMA	1.06:1	1.10:1	1.15:1
	N	1.06:1	1.10:1	1.15:1
	BNC	1.10:1	1.15:1	---
Impedance		50 ohms		
Velocity		70%		
Screening Effectiveness		>80 dB		
Bending Amplitude Stability		≤±0.03dB@6GHz		
Bending Phase Stability				
Attenuation(25℃)				
Frequency (MHz)		dB/100ft		dB/100m
100		3.96		13
400		7.92		26
1000		12.80		42
3000		23.77		78
5000		32.00		105
6000		39.01		128
		Watts		
100		980		
400		490		
1000		300		
3000		180		
5000		140		
6000		120		

ST06G Series Test Cable Assembly

A cross-sectional diagram of a cable jacket. The diagram shows a central core with five distinct layers. From the center outwards, the layers are: a solid white circle (Inner Conductor), a cross-hatched circle (Medium), a solid black circle (Inner shield), a cross-hatched circle (Outer shield), and a solid white circle (Jacket). Arrows point from the labels on the right to each corresponding layer.

- Inner Conductor
- Medium
- Inner shield
- Outer shield
- Jacket

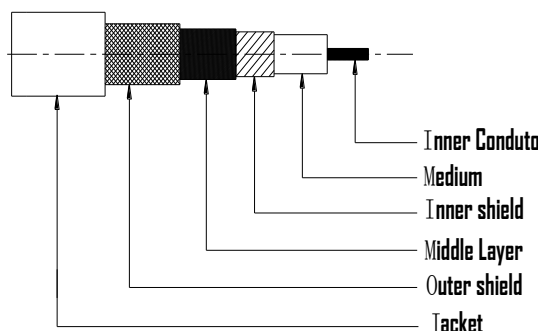
Jacket: FEP

[illegible]

ST Series Test Cable Assembly→

ST18 Series Test Cable Assembly

ST18 (DC-18GHz) has three-layer shield and stable performance, such as low loss and stable phase. It's an ideal product applied in components, assembly workshop, lab test and automation equipment.



Cable Structure

Inner Conductor: silver plated copper wire

Insulation: LDPTFE

Inner Shield: silver plated flat copper wire braid

Middle Shield: LDPTFE

Outer Shield: silver plated copperwire braid

Jacket: FEP



Physical Characteristics				
Specification	mm		inch	
Inner Conductor	1.44		0.057	
Insulation	3.80		0.150	
Inner Shield	4.00		0.157	
Middle Shield	4.30		0.169	
Outer Shield	4.65		0.183	
Armor	5.00		0.197	
Weight	0.085kg/m			
Min Bending Radius				
	>5000			
Working Temp.				
Electrical Characteristics				
VSWR Max		3GHz	6GHz	18GHz
	SMA	1.10:1	1.15:1	1.25:1
	N	1.10:1	1.15:1	1.25:1
	TNC	1.10:1	1.15:1	1.30:1
Impedance	50 ohms			
Velocity	83%			
Screening Effectiveness	>90 dB			
Bending Amplitude Stability	≤±0.03dB@18GHz			
Bending Phase Stability	≤±2.4° @18GHz			
Attenuation(25℃)				
Frequency (MHz)	dB/100ft		dB/100m	
1000	9.27		30.4	
3000	16.40		53.8	
6000	23.65		77.6	
10000	31.15		102.2	
12000	34.69		133.9	
18000	43.07		141.3	
26500	53.52		175.6	
	Watts			
1000	821			
3000	464			
6000	321			
10000	244			
12000	221			
18000	177			
26500	142			

ST Series Test Cable Assembly→→

ST18P Series Millimeter Wave Test Cable Assembly

ST18P (DC-18GHz) has multi-layer protectors and stable performance, such as low loss and stable phase. It's an ideal product applied in components, assembly workshop, lab test and automation equipment.



Cable Structure

- 1.Inner Conductor:** silver plated copper wire
- 2.Insulation:** LDPTFE
- 3.Inner Shield:** silver plated flat copper wire braid
- 4.Middle Shield:** LDPTFE
- 5.Outer Shield:** silver plated copperwire braid
- 6. Jacket:** FEP
- 7.Inner Armor:** silver plated copper
- 8.Strengthened Shield:**silver plated copper wire
- 9.Anti-twist Layer:** polyimide
- 10.Outer Armor:** PTFE braid (purple+black)



Physical Characteristics						
ArmorOuter Dia.		7.9 mm	0.311 inch		Durability	>5000
Weight		0.135kg/m			Working Temp.	-55℃~+125℃
Min Bending Radius		(dynamic 50.0mm), (static 25.0mm)			Armor Stress Tolerance	180N/25mm
Electrical Characteristics						
VSWR Max		3GHz	6GHz	18GHz	Impedance	50 ohms
	SMA	1.10:1	1.15:1	1.25:1	Velocity	83%
	N	1.10:1	1.15:1	1.25:1	Screening Effectiveness	>90 dB
	TNC	1.10:1	1.15:1	1.30:1	Bending Amplitude Stability	≤±0.03dB@18GHz
Capacitance	24.3pf/ft=80pf/m				Bending Phase Stability	≤±2.4° @18GHz
Attenuation and Power handling						
	Attenuation(25℃)			Power handling@25℃&Sea Level(cable only)		
Frequency (MHz)	dB/100ft		dB/100m		Watts	
300	4.99		16.4		1519	
500	6.49		21.3		1171	
1000	9.27		30.4		821	
3000	16.40		53.8		464	
6000	23.65		77.6		321	
10000	31.15		102.2		244	
12000	34.69		113.8		221	
18000	43.07		141.3		177	
26500	53.52		175.6		142	

ST26 Series Test Cable Assembly

A cross-sectional diagram of a cable jacket. The diagram shows a central core with six distinct layers. From the center outwards, the layers are: a solid black circle (Inner Conduct), a white circle with diagonal hatching (Medium), a white circle with diagonal hatching (Inner shield), a white circle with diagonal hatching (Middle Layer), a white circle with diagonal hatching (Outer shield), and a white circle with diagonal hatching (Jacket). Arrows point from each layer to a label on the right: Inner Conduct, Medium, Inner shield, Middle Layer, Outer shield, and Jacket.

Jacket: FEP



[illegible]

ST Series Test Cable Assembly→→

ST26P Series Millimeter Wave Test Cable Assembly

ST26P (DC-26.5GHz) has three-layer shield and stable performance, such as low loss and stable phase. It's an ideal product applied in components, assembly workshop, test lab and automation equipment.



Cable Structure

- 1.Inner Conductor:** silver plated copper wire
- 2.Insulation:** PTFE
- 3.Inner Shield:** silver plated flat copper wire braid
- 4.Middle Shield:** LDPTFE
- 5.Outer Shield:** silver plated copper wire braid
- 6. Jacket:** FEP
- 7.Inner Armor:** silver plated copper
- 8.Strengthened Shield:** silver plated copper wire
- 9.Anti-twist Layer:** polyimide
- 10.Outer Armor:** PTFE braid (purple+black)



Physical Characteristics						
Armor Outer Dia.	7.6 mm		0.301 inch		Durability	>5000
Weight	0.5kg/m				Working Temp.	-55℃~+125℃
Min Bending Radius	(dynamic 46.0mm), (static 18.0mm)				Armor Stress Tolerance	160N/25mm
Electrical Characteristics						
VSWR Max		6GHz	18GHz	26.5GHz	Impedance	50 ohms
	SMA/3.5mm	1.15:1	1.25:1	1.30:1	Velocity	76%
	N	1.15:1	1.25:1	---	Screening Effectiveness	>90 dB
	TNC	1.15:1	1.30:1	---	Bending Amplitude Stability	≤±0.03dB@26.5GHz
Capacitance	27pf/ft=88pf/m				Bending Phase Stability	≤±2.7° @26.5GHz
Attenuation and Power handling						
	Attenuation(25℃)				Power handling@25℃&Sea Level(cable only)	
Frequency (MHz)	dB/100ft		dB/100m		Watts	
300	6.25		20.5		927	
500	8.08		26.5		717	
1000	11.46		37.6		505	
3000	19.99		65.6		289	
6000	28.53		93.6		203	
10000	37.12		121.8		156	
12000	41.27		135.4		137	
18000	50.41		165.4		115	
26500	61.81		202.8		94	

ST Series Test Cable Assembly→→

ST50P Series Millimeter Wave Test Cable Assembly

ST50P (DC-50GHz) has multi-structure protection and stable performance, such as low loss and stable phase.



Cable Structure

- 1.Inner Conductor:** silver plated copper
- 2.Insulation:** LDPTFE
- 3.Inner Shield:** silver plated flat copper wire braid
- 4.Middle Shield:** LDPTFE
- 5.Outer Shield:** silver plated copper wire braid
- 6.Jacket:** FEP
- 7.Inner Armor:** silver plated copper
- 8.Strengthened Shield:** silver plated copper wire
- 9.Anti-twist Layer:** polyimide
- 10.Outer Armor:** PTFE braid (purple+black)



Physical Characteristics							
Armor Outer Dia.	5.80 mm		0.228 inch		Durability		>5000
Weight	0.042kg/m				Working Temp.		-55℃~+125℃
Min Bending Radius	36.0mm				Armor Stress Tolerance		100N/25mm
Electrical Characteristics							
VSWR Max	Connector	18GHz	26.5GHz	40GHz	50GHz	Dielectric Withstand Voltage	500V, DC
	2.92mm	1.25:1	1.30:1	1.30	--	Velocity	76%
	2.4mm	1.25:1	1.30:1	1.30	1.35	Screening Effectiveness	>90 dB
Impedance	50 ohms				Phase stable		±0.05dB@50GHz
Capacitance	27pf/ft=88pf/m				Bending Phase		≤±5° @50GHz
Attenuation and Power handling@25℃ and Sea Level							
	Attenuation (25℃)				Power handling@25℃&Sea Level		
Frequency (MHz)	dB/100ft		dB/100m		Watts		
300	13.4		23.9		580		
500	23.3		30.9		420		
1000	33.2		43.8		250		
3000	43.1		76.4		140		
6000	48.2		108.8		130		
12000	58.5		158.1		80		
18000	71.6		191.8		72		
26500	88.9		234.8		66		
40000	13.4		291.7		60		
50000	23.3		328.5		56		

ST65 Series Test Cable Assembly

A cross-sectional diagram of a cable. It shows a central white circle (Inner Conductor) surrounded by a grey hatched ring (Insulation). This is followed by a white ring (Inner shield), a black hatched ring (Outer shield), and a final white ring (Jacket). Arrows point from the labels to their respective layers.

Jacket: FEP

ST Series Test Cable Assembly→→

STVNA18 Series Test Cable Assembly DC-18GHz for Network Ana-

STVNA18 (DC-18GHz) test cable assembly designed by Stpl is specifically targeted for network analyzer.

Standard length: 0.61 meter, 0.91 meter (customerized)

Advantage: exquisite surface, stable performance, high-precise test, long life span, high quality at competitive price



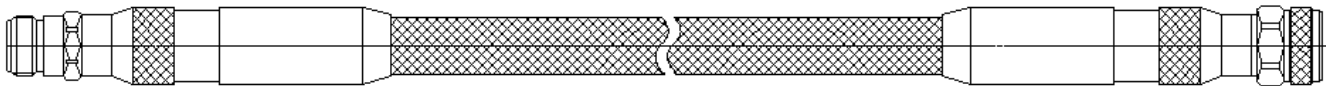
Electrical Characteristics

Impedance	50 Ω	Velocity of Propagation	76%
Max Operating Frequency	18. 0GHz	Screening Effectiveness	90dB min.
VSWR Max	1. 30: 1@DC-18GHz	Dielectric Withstanding Voltage	2KV (rms)
Phase Change VS Bending	≤ ±2. 4° @18GHz	Phase Change VS Bending	≤ ±0. 03dB@18GHz

Type Selection

Type	A Connector	B Connector	Insertion Loss MAX@26. 5GHz
ZVNA18-NM-NM-LM	N Male	N Male	1. 2dB@0. 61M, 1. 6dB@0. 91M
ZVNA18-NM-MF-LM	N Male	N Female	1. 2dB@0. 61M, 1. 6dB@0. 91M

Mechanical & Environmental Characteristics



Outer Braid	Polyester-PET
Cable Assembly Outer Diameter	15. 2mm/0. 6"
Min Bending Radius/Repeated(dynamic)	50. 0mm/1. 97"
Operating Temperature	-55℃ ~+105℃

ST Series Test Cable Assembly→→

STVNA26 Test Cable Assembly DC-26.5GHz for Network Ana-

STVNA26 (DC-26.5GHz) test cable assembly designed by STPL is specifically targeted for network analyzer.

Standard length: 0.61 meter, 0.91 meter (customerized)

Advantage: exquisite surface, stable performance, high-precise test, long life span, high quality at competitive price



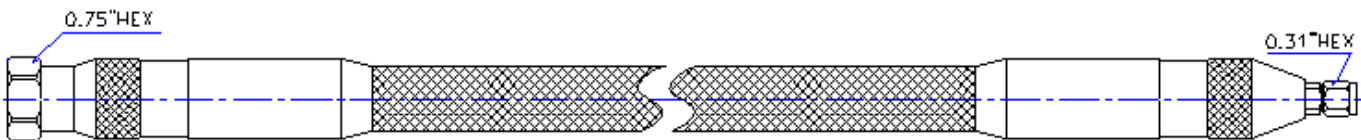
Electrical Characteristics

Impedance	50 Ω	Velocity of Propagation	76%
Max Operating Frequency	26.5GHz	Screening Effectiveness	90dB min.
VSWR Max	1.30:1@DC-26.5GHz	Dielectric Withstanding Voltage	1KV (rms)
Phase Change VS Bending	≤ ±2.7° @26.5GHz	Phase Change VS Bending	≤ ±0.03dB@26.5GHz

Type Selection

Type	A Connector	B Connector	Insertion Loss MAX@26.5GHz
ZVNA26-NMD3.5F-3.5M-LM	NMD 3.5mm Female	3.5mm Male	1.7dB@0.61M, 2.4dB@0.91M
ZVNA26-NMD3.5F-3.5F-LM	NMD 3.5mm Female	3.5mm Female	1.7dB@0.61M, 2.4dB@0.91M

Mechanical & Environmental Characteristics



Outer Braid	Polyester-PET
Cable Assembly Outer Diameter	15.2mm/0.6"
Min Bending Radius/Repeated(dynamic)	50.0mm/1.97"
Operating Temperature	-55℃ ~ +105℃

ST Series Test Cable Assembly→→

STVNA50 Test Cable Assembly DC-50GHz for Network Ana-

STVNA50 (DC-50GHz) test cable assembly designed by STPL is specifically targeted for network analyzer.

Standard length: 0.61 meter, 0.91 meter (customerized)

Advantage: exquisite surface, stable performance, high-precise test, long life span, high quality at competitive price



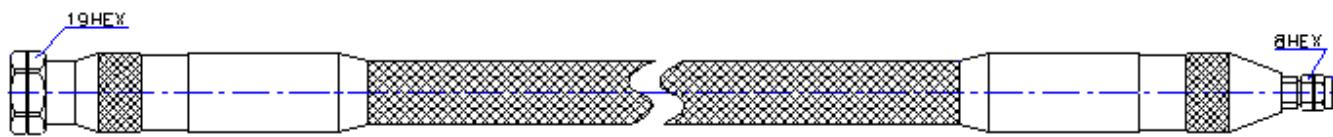
Electrical Characteristics

Impedance	50 Ω	Velocity of Propagation	76%
Max Operating Frequency:	50.0GHz	Screening Effectiveness	90dB min.
VSWR Max	1.40:1@DC-50GHz	Dielectric Withstanding Voltage	1KV(rms)
Phase Change VS Bending	$\leq \pm 5^\circ$ @50GHz	Phase Change VS Bending	$\leq \pm 0.05\text{dB}$ @50GHz

Type Selection

Type	A Connector	B Connector	Insertion Loss MAX@50GHz
ZVNA50-NMD2.4F-2.4M-LM	NMD 2.4mm Female	2.4mm Male	2.8dB@0.61M, 4.1dB@0.91M
ZVNA50-NMD2.4F-2.4F-LM	NMD 2.4mm Female	2.4mm Female	2.8dB@0.61M, 4.1dB@0.91M

Mechanical & Environmental Characteristics



Outer Braid	Polyester-PET
Cable Assembly Outer Diameter	15.2mm/0.6"
Min Bending Radius/Repeated(dynamic)	50.0mm/1.97"
Operating Temperature	-55°C ~ +105°C