



Product features

- Excellent bending phase, amplitude stability
- Stainless steel outer shield, high tensile strength
- Triple shielding structure, good insulation
- Bending at random and maintaining shape stability
- Stainless steel soldering-free connector

FSH-series cables are featured with excellent bending property, high strength of retention and outstanding phase stability.

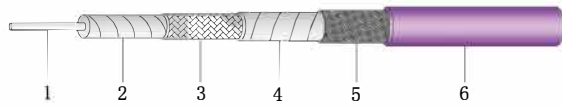
The first benefit of these features is that the FSH cable assemblies can be bent from the root of connectors, which makes them capable of replacing right angle connectors. At the same time, the specially made short-end connector can largely save the installation space. This unique characteristic can save engineers from the problems of balancing between the limited system space and reasonable cable layout. It makes the building of a neat and compact system easier and more pleasant. Also, compared with semi-rigid cable assembly, FSH series can be bent flexibly according to site applications, without requiring customized length or bending shape designing. Thus significant expense on engineering resources and transportation will be saved, and overall cost of use will be reduced.

Owing to the soldering-free designing on connectors, embrittlements and cracks on soldering points between cables and connectors are perfectly avoided. Cost and weight are saved once again.

Similar Cable Replacement Table

	Astrolab minibend	MCC	GORE	TIMES	IW	HAROUR	SEMFLEX
FSH-250	32081						
FSH-360	32022						
FSH-260L	32024						

FSH | Specification

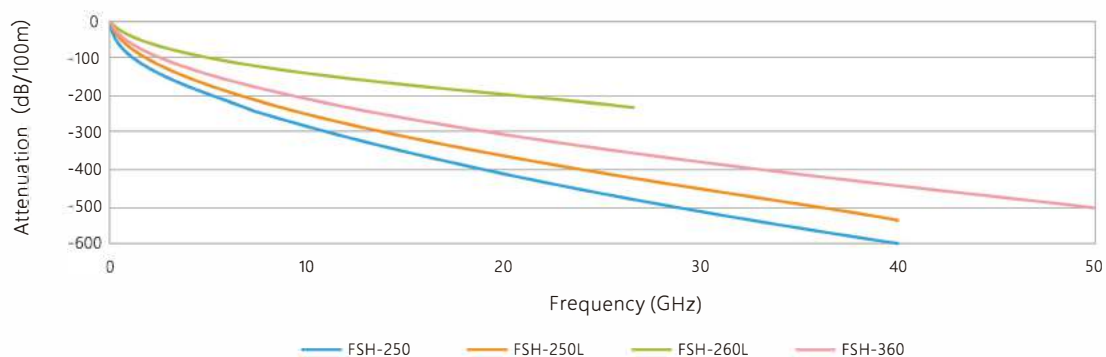


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|---|------------------|----------|---|--------------|----------------------|
| 1 | Center Conductor | SPC | 4 | Interlayer | Aluminum Foil |
| 2 | Dielectric | PTFE | 5 | Outer Shield | Stainless Steel Wire |
| 3 | Outer Conductor | SPC Tape | 6 | Jacket | FEP |

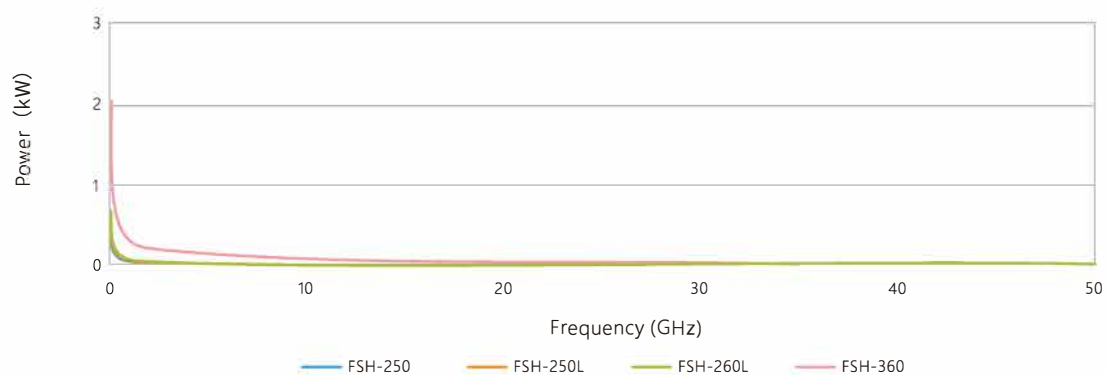
	FSH-250			FSH-250-L			FSH-260-L			FSH-360		
Physical & Mechanical Specifications												
Dimensions	mm	Inch		mm	Inch		mm	Inch		mm	Inch	
Jacket	2.50	0.098		2.50	0.098		2.64	0.104		3.61	0.142	
Bend Radius: Installation	10.00	0.394		10.00	0.394		10.60	0.417		8.40	0.331	
Bend Radius: Repeated	25.00	0.984		25.00	0.984		26.00	1.024		36.00	1.417	
Weight	18 g/m	0.012 lbs/ft		16 g/m	0.011 lbs/ft		17 g/m	0.011 lbs/ft		31 g/m	0.021 lbs/ft	
Temperature Range	-55~+125°C (-67~+257°F)			-55~+165□ □ -67~+329□ □								
Electrical Specifications												
Operating Frequency	40 GHz			40.0 GHz			50.0 GHz			26.5 GHz		
Max Phase Stability(±°)	±8			±8			±8			±8		
MaxAmplitudeStability(±dB)	±0.15			±0.15			±0.15			±0.15		
Impedance	50Ω											
Shielding Effectiveness	> 90 dB											
Velocity of Propagation	70%			74%			76%			76%		
Attenuation & Power Handling	Attenuation (+25°C Ambient) & Power Handling(+40°C Ambient; Sea Level; VSWR1:1)											
Frequency (MHZ)	dB/ m	dB/ Ft	kW	dB/ m	dB/ Ft	kW	dB/ m	dB/ Ft	kW	dB/ m	dB/ Ft	kW
1000	0.829	0.253	0.103	0.721	0.220	0.103	0.601	0.183	0.103	0.398	0.121	0.346
2000	1.180	0.360	0.073	1.029	0.314	0.072	0.858	0.262	0.072	0.567	0.173	0.243
4000	1.684	0.513	0.051	1.474	0.449	0.050	1.228	0.375	0.050	0.809	0.247	0.170
8000	2.412	0.735	0.036	2.121	0.647	0.035	1.768	0.539	0.035	1.159	0.353	0.119
10000	2.711	0.826	0.032	2.388	0.728	0.031	1.990	0.607	0.031	1.303	0.397	0.106
18000	3.697	1.127	0.023	3.275	0.999	0.023	2.729	0.832	0.023	1.778	0.542	0.078
26500	4.546	1.386	0.019	4.047	1.234	0.018	3.372	1.028	0.018	2.188	0.667	0.063
40000	5.682	1.732	0.015	5.088	1.551	0.015	4.240	1.293	0.015			
50000							4.809	1.466	0.013			
Attenuation at Frequency	$\text{dB/m}=\frac{K1*\sqrt{\text{FMHz}}+K2*\text{FMHz}}{100}$											
K1	2.5808091			2.2320000			1.8600000			1.2380700		
K2	0.0013000			0.0015600			0.0013000			0.0006499		



Frequency & Attenuation

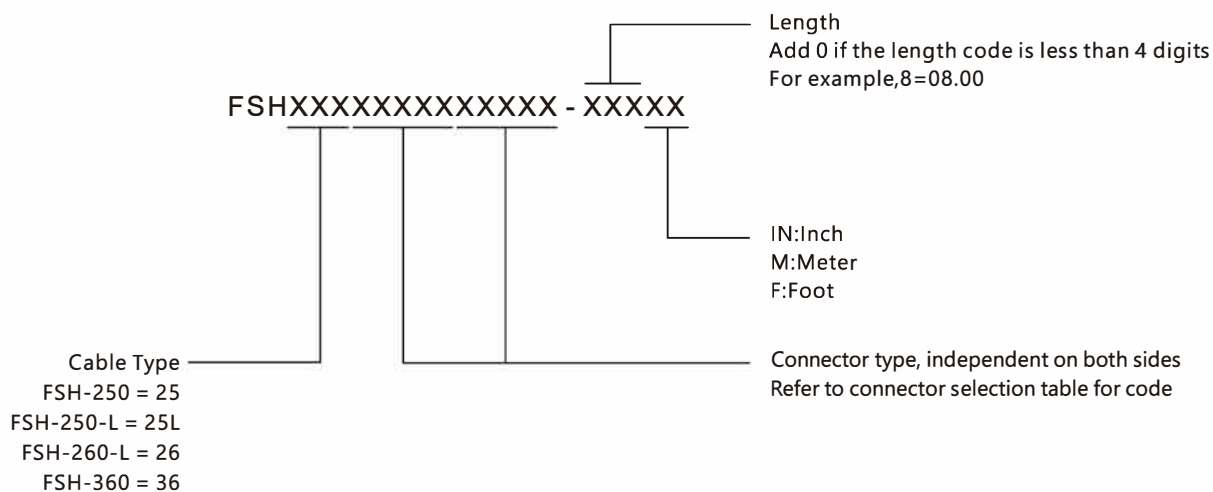


Frequency & Power





Assembly Selection Information



For example: FSH2629M29M-300

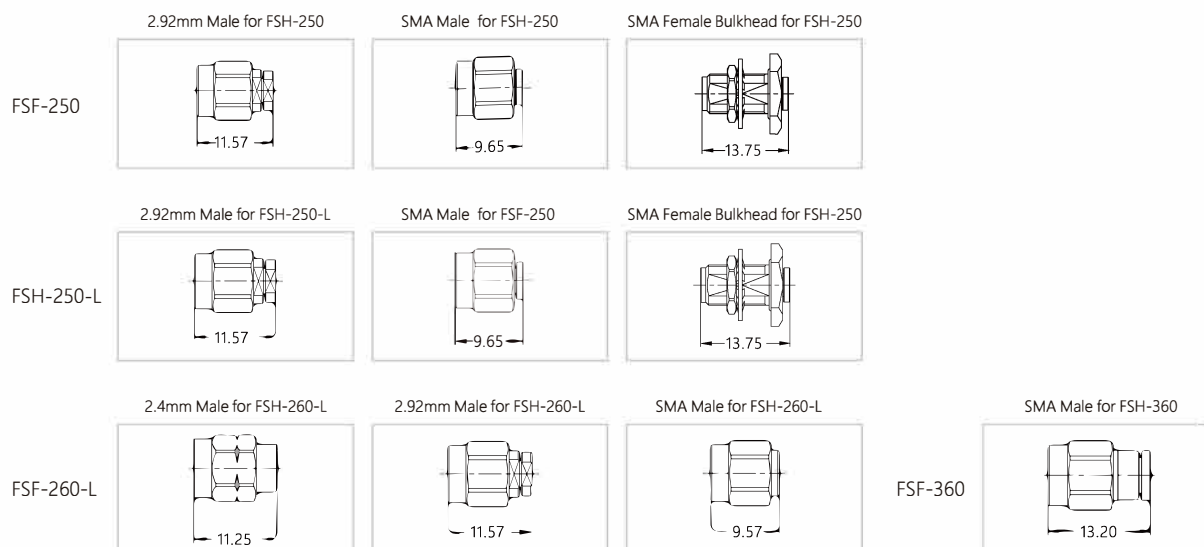
Optional Connectors

Connector Code	Connection Type	Operating Frequency (GHz)	FSH-250	FSH-250-L	FSH-260-L	FSH-360	Typical VSWR	Max VSWR
24M	2.4mm Male	50GHz			●		1.30	1.35
24F	2.4mm Female	50GHz	●	●	○		1.30	1.35
29M	2.92mm Male	40GHz	○	○	●	○	1.25	1.30
29MR	2.92mm Male Right Angle	40GHz	●	●			1.30	1.35
SM	SMA Male	26.5GHz	●	●	●	●	1.25	1.30
SFBH	SMA Female Bulkhead	18GHz					1.25	1.30
NM	N Male	18GHz	○	○	○		1.25	1.30
SMPFR	SMP Female Right Angle	18GHz					1.30	1.35

Note:

● = stocked and ○ = designed but not stocked.

Connector drawing



Disclaimer: The product information provided in this manual is for reference only, and the details shall be subject to the actual situation of the product.