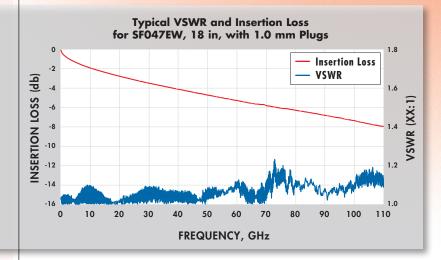
STORM FLEX® SF047EW

E- AND W-BAND TEST ASSEMBLY



An SF047EW assembly offers test engineers, application designers, manufacturers of mmWave applications the proven durability and robustness of Storm Flex® 047 cable, optimized for coaxial connectivity at frequencies up to 110 GHz.

SF047EW cable can withstand handling and flexing and while maintaining the original Insertion Loss and VSWR performance at frequencies previously addressed by waveguides.



FEATURES

- Solid PTFE dielectric
- Ultra-high strength outer braid
- Optimized for use in E and W bands
- Interconnect Configurations
- Rear boot for connector
- Optional armor

 High compression resistance and greater durability

BENEFITS

- Eliminates cable breakage associated with repeated bending and handling
- E-band connectivity using 1.35mm connectors and W-band connectivity using 1.00mm connectors
- Eliminates the need for waveguides in applications such as robotics, autonomous driving and bio-snesing.
- In test lab applications, boot protects against behind-the-connector cable damage
- Allows all configurations to be used as VNA test leads or in harsher environments



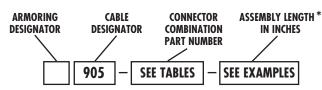


High value microwave and electronic interconnect solutions

www.teledynestorm.com

STORM FLEX®

ORDERING INFORMATION: Part Number Designation



ARMORING DESIGNATOR

- Leave Blank for Unarmored
- **R** Ruggedized Boot Option
- A Hard Armored

EXAMPLES:

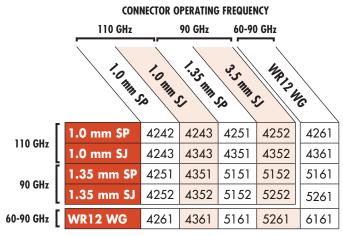
905-4243-**012** = Storm Flex[®] 047EW, 1.00 mm SP to 1.00 mm SJ (assembly operates to 110 GHz), **12 inches**, Standard Low-profile Connector Option

R905-5151-012 = Storm Flex $^{\odot}$ 047EW, 1.35 mm SP to 1.35mm SP (assembly operates to 110 GHz), 12 inches, Ruggedized Boot Option

A905-4242-018 = Storm Flex $^{\odot}$ 047EW, 1.00 mm SP to 1.00 mm SP (assembly operates to 110 GHz), 18 inches, Hard Armored Option

* Max assembly length is 48 in/1.219 m Min assembly length is 4 in/0.101 m Min assembly length for R and A is 6 in/0.154 m

CONNECTOR COMBINATION PART NUMBERS



A mating torque value of 4 in-lbs/0.45 Nm is recommended for the 1.0 mm interface.

A mating torque value of 8 in-lbs/0.9 Nm is recommended for the 1.35 mm interface

Call Teledyne Storm Microwave for WR-10 & WR-15 connector options.



IESI ASSEMBLY						
15	STORM FLEX [®] 047EW					
r	905					

E- AND W-BAND

ACCEAADIV

Cable De	signator	905		
Diameter (in/mm)		0.059/1.50		
Max Frequency (GHz)		110		
Attenuation	n–Nominal @ 67 GHz (dB/ft)	3.70		
Attenuation	n–Nominal @ 90 GHz (dB/ft)	4.38		
Attenuation	n–Nominal @ 110 GHz (dB/ft)	4.93		
VSWR	Typ @ 110 GHz w/1.00mm	1.25:1		
	Max @ 110 GHz w/1.00mm	1.40:1		
	Typ @ 90 GHz w/1.35mm	1.25:1		
	Max @ 90 GHz w/1.35mm	1.40:1		
Shielding E	Effectiveness (dB, 0-18 GHz)	-85 or better		
Minimum Centerline Bend Radius (in/mm), static		0.10/2.54		
Compression Resistance - cable only (lbs./in, kg/cm)		100 / 17.9		
Connector Retention (Ibs)		5.0		
Weight (grams/ft & /m)		1.61/5.28		
Operating Temperature Range (°C)		-40 to +70		

Insertion loss stability verified per VDI/VDE/DGQ/DKD 2622 Part 19. Specifications subject to change without notice. StormFlex[®] 047EW is RoHS compliant.

CONN	NECTOR CODES	MARKETS SERVED			
SP	Straight Plug				
SJ	Straight Jack				
WG	Waveguide	T&M	RADAR	TELECOM	INDUSTRY



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SPECIFICATION

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PR1-0026 Rev B

AS9100/ISO 9001 REGISTERED