STORM FLEX® SF047EW



E- AND W-BAND TEST ASSEMBLY



An SF047EW assembly offers test engineers 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 still match the original Insertion Loss and VSWR performance at frequencies previously addressed by waveguides.

While useful in controlling loss, the waveguide's rigidity did not allow for flexibility in test set-ups.

And, early attempts at higher frequency flexible cables resulted in fragile, unstable, and high-reflection assemblies.

SF047EW assemblies are designed to address all of those issues, delivering:

- The flexibility to accommodate a variety of test set-ups
- Durable, trouble-free construction
- Consistent, repeatable electrical performance with flexure
- Optimized connectivity at frequencies up to 110 GHz

FEATURES

✤ Solid PTFE dielectric

Ultra-high strength outer braid

 Optimized for use in E and W bands

BENEFITS

- High compression resistance and greater durability
- Eliminates cable breakage associated with repeated bending and handling
- Consistent, repeatable electrical performance with flexure
- Enables coaxial connectivity up to 110 GHz
- ~ Eliminates the need for waveguides



High value microwave and electronic interconnect solutions

www.teledynestorm.com

STORM FLEX®

Typ @ 110 GHz

Max @ 110 GHz

Insertion loss stability verified per VDI/VDE/DGQ/DKD 2622 Part 19.

SPECIFICATIONS

Cable Designator

Minimum Centerline

Connector Retention

Connector Retention

Bend Radius (in/mm), static

(lbs/kg min), straight pull

(lbs/kg min), right angle pull Weight (grams/ft & /m)

Operating Temperature Range (°C)

Attenuation-Nominal @ 67 GHz (dB/ft)

Attenuation-Nominal @ 90 GHz (dB/ft)

Attenuation-Nominal @ 110 GHz (dB/ft)

Shielding Effectiveness (dB, 0-18 GHz)

Diameter (in/mm) Max Frequency (GHz)

VSWR

STORM FLEX®

047EW

905

110

4.48

5.09

5.87

1.30:1

1.35:1

-85 or better

0.040/1.016

10/4.54

5/2.27

1.54/5.05

-55 to +85

Specifications subject to change without notice.

E- AND W-BAND TEST ASSEMBLY

	ORDERING	INFORMAT	ION: Part	Number	Designation
_				110111801	Designation



EXAMPLES:

905-4243-**048** = Storm Flex® 047EW, 1 mm SP to 1 mm SJ (assembly operates to 110 GHz), **48 inches**

905-4343-**048** = Storm Flex® 047EW, 1 mm SJ to 1 mm SJ (assembly operates to 110 GHz), **48 inches**

* Max assembly length is 84 in/2.1 m

CONNECTOR COMBINATION PART NUMBERS



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

CONNECTOR CODES				
SP	Straight Plug			
SJ	Straight Jack			

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AS9100/ISO 9001 REGISTERED

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