

WR-42 Twistable Flexible Waveguide Using UG-595/U Square Cover Flange With a 18 GHz to 26.5 GHz Frequency Range

The SMW42TF005-24 is one of Fairview Microwave's flexible, twistable sections which operates in the 18 to 26.5 GHz range. It can be twisted and/or bent in both the E and H planes without impairing VSWR or attenuation because of its silver coated helically wound brass body construction. The twistable section is covered in a neoprene jacket which allows the section to be pressurized as well as protecting the waveguide's integrity.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
VSWR		1.3:1		
Insertion Loss		0.7		dB

Mechanical Specifications

Waveguide Size	WR-42
Waveguide Design	Twistable
Section Length	24 in [609.6 mm]
E-Plane Minimum Bend Radius, One Time	1.5 in [38.1 mm]
E-Plane Minimum Bend Radius, Repeated	6 in [152.4 mm]
H-Plane Minimum Bend Radius, One Time	3 in [76.2 mm]
H-Plane Minimum Bend Radius, Repeated	12 in [304.8 mm]
Maximum Offset Rotation, One Time	155 degrees/ft
Maximum Offset Rotation, Repeated	45 degrees/ft
Maximum Operating Pressure	45 psig

Description	Flange 1	Waveguide	Flange 2
Type	Square Cover	WR-42	Square Cover
Designation	UG-595/U		UG-595/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

Plotted and Other Data

- Notes:
 • Notes, Plotted Data



Features:

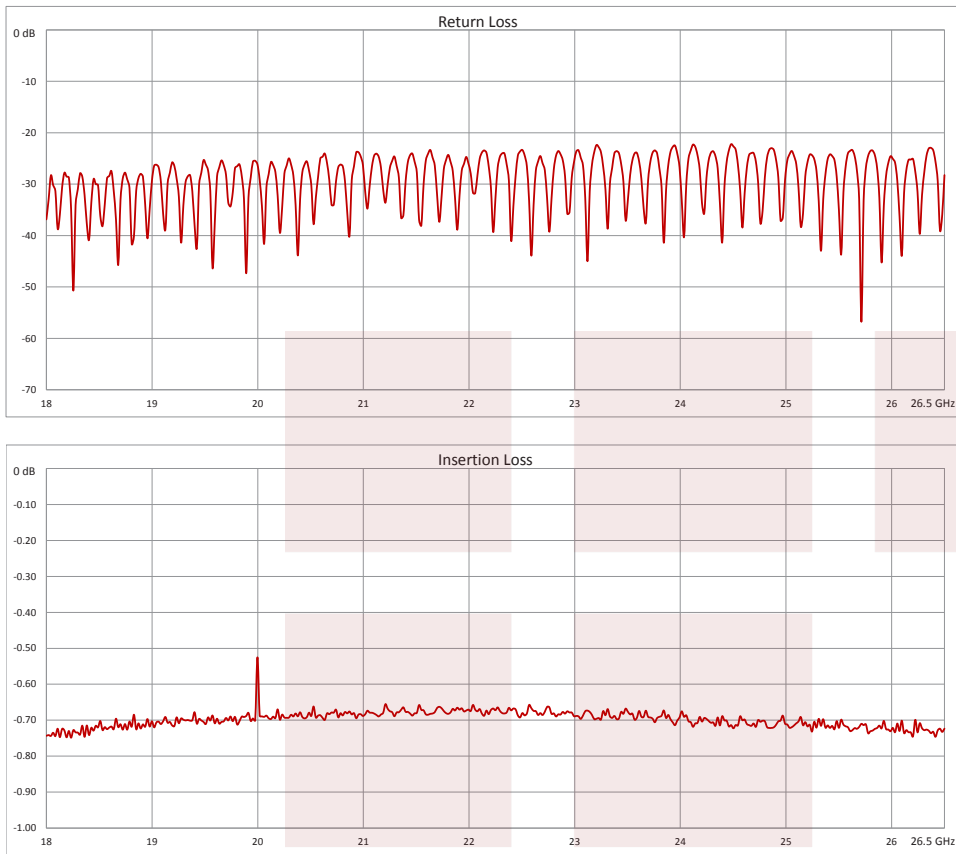
- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 18 GHz to 26.5 GHz Range
- Brass flanges with a silver plated brass body

Applications:

- Test Benches
- Microwave Radio
- Pressurized waveguide systems
- Provides vibration isolation
- Easily connects misaligned sections.
- Relieves mechanical stresses caused by thermal expansion/contraction.

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Typical Performance Data

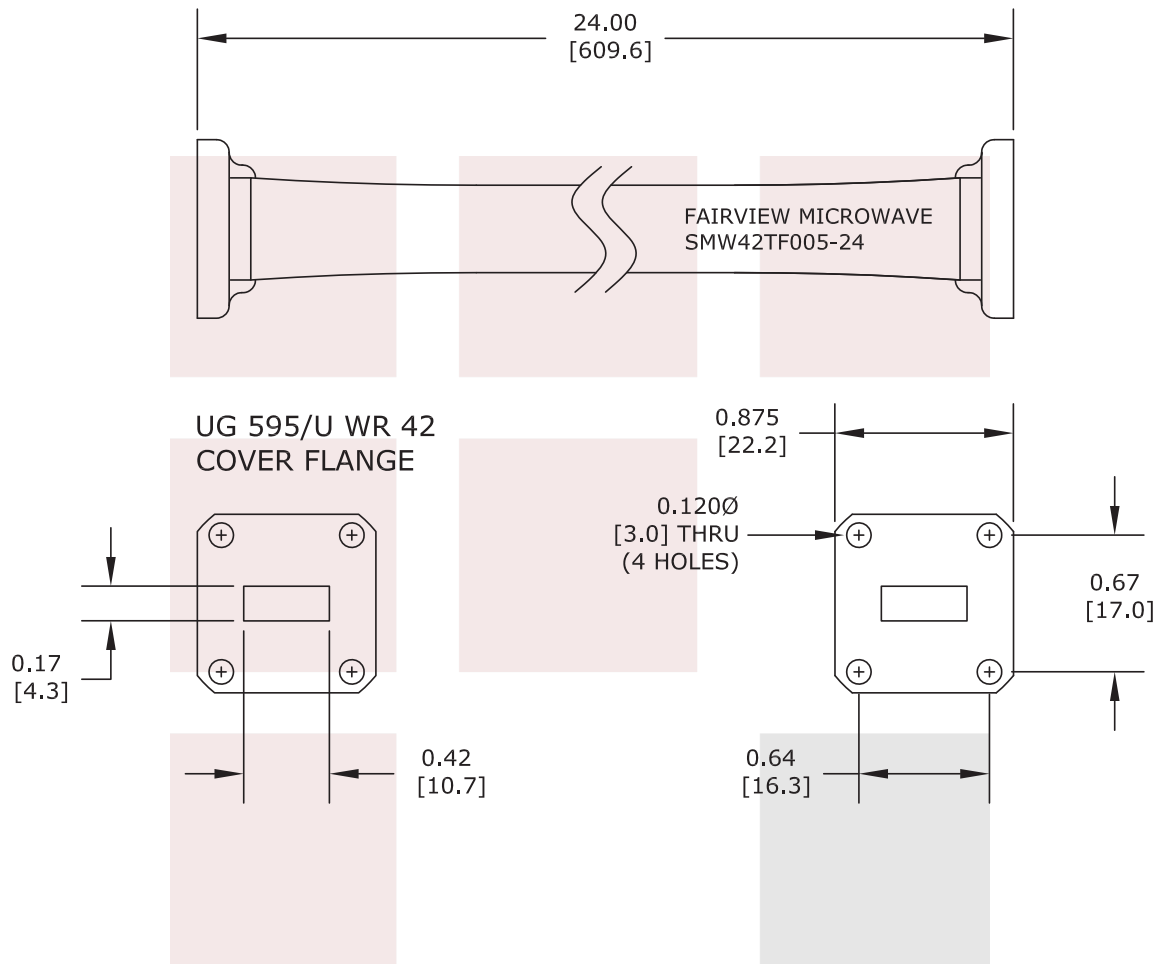


WR-42 Twistable Flexible Waveguide Using UG-595/U Square Cover Flange With a 18 GHz to 26.5 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-42 Twistable Flexible Waveguide Using UG-595/U Square Cover Flange With a 18 GHz to 26.5 GHz Frequency Range SMW42TF005-24](https://www.fairviewmicrowave.com/wr-42-twistable-flexible-waveguide-ug595-square-18-26.5-ghz-smw42tf005-24-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-42-twistable-flexible-waveguide-ug595-square-18-26.5-ghz-smw42tf005-24-p.aspx>

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TITLE WR-42 Twistable Flexible Waveguide Using UG-595/U Square Cover Flange With a 18 GHz to 26.5 GHz Frequency Range		DWG NO SMW42TF005-24		CAGE CODE 3FKR5	
CAD FILE	092815	SHEET	SCALE	N/A	SIZE A 2233