

**WR-28 Twistable Flexible Waveguide Using UG-599/U Square Cover Flange With a 26.5 GHz to 40 GHz Frequency Range**

The SMW28TF005-24 is one of Fairview Microwave's flexible, twistable sections which operates in the 26.5 to 40 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	26.5		40	GHz
VSWR		1.3:1		
Insertion Loss		1.2		dB

**Mechanical Specifications**

Waveguide Size	WR-28
Waveguide Design	Twistable
Section Length	24 in [609.6 mm]
E-Plane Minimum Bend Radius, One Time	1 in [25.4 mm]
E-Plane Minimum Bend Radius, Repeated	4 in [101.6 mm]
H-Plane Minimum Bend Radius, One Time	2 in [50.8 mm]
H-Plane Minimum Bend Radius, Repeated	8 in [203.2 mm]
Maximum Offset Rotation, One Time	180 degrees/ft
Maximum Offset Rotation, Repeated	70 degrees/ft
Maximum Operating Pressure	45 psig

Description	Flange 1	Waveguide	Flange 2
Type	Square Cover	WR-28	Square Cover
Designation	UG-599/U		UG-599/U
Material	Brass	Brass	Brass
Plating		Silver	
Color	Gold	Black	Gold

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

**Plotted and Other Data**

- Notes:
- Notes, Plotted Data



**Features:**

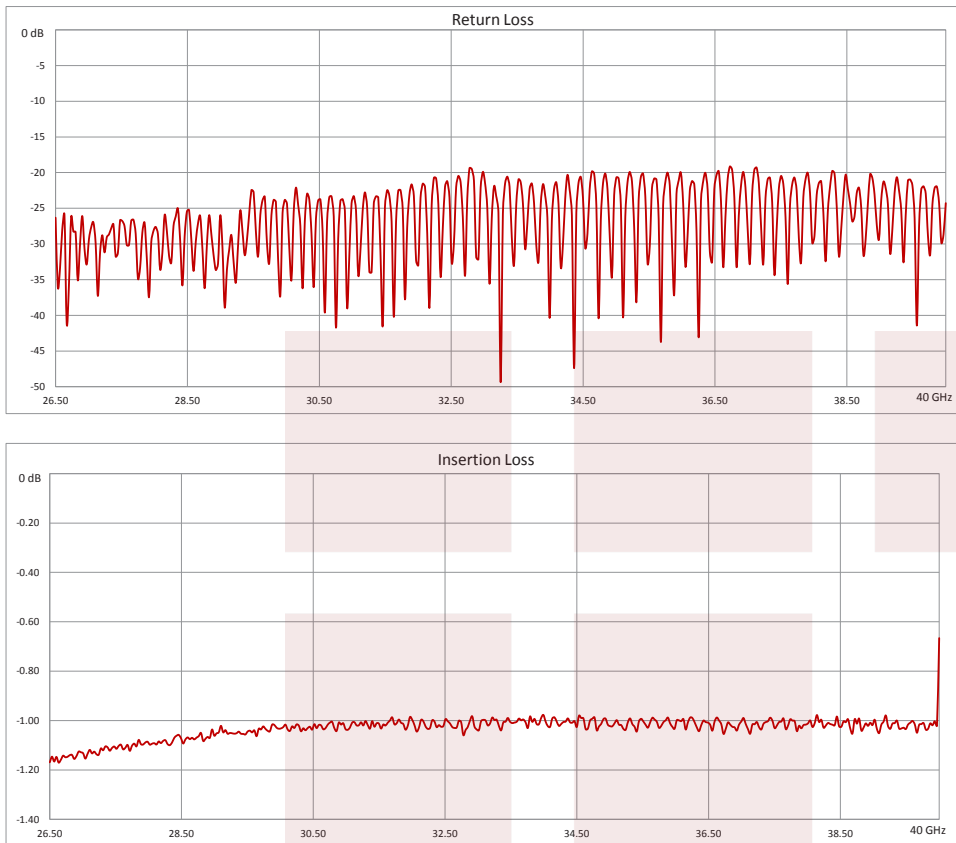
- Twistable/Flexible in both the E and H plane
- Neoprene Jacket allows pressurization
- 26.5 GHz to 40 GHz Range
- Brass flanges with a silver plated brass body

**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**

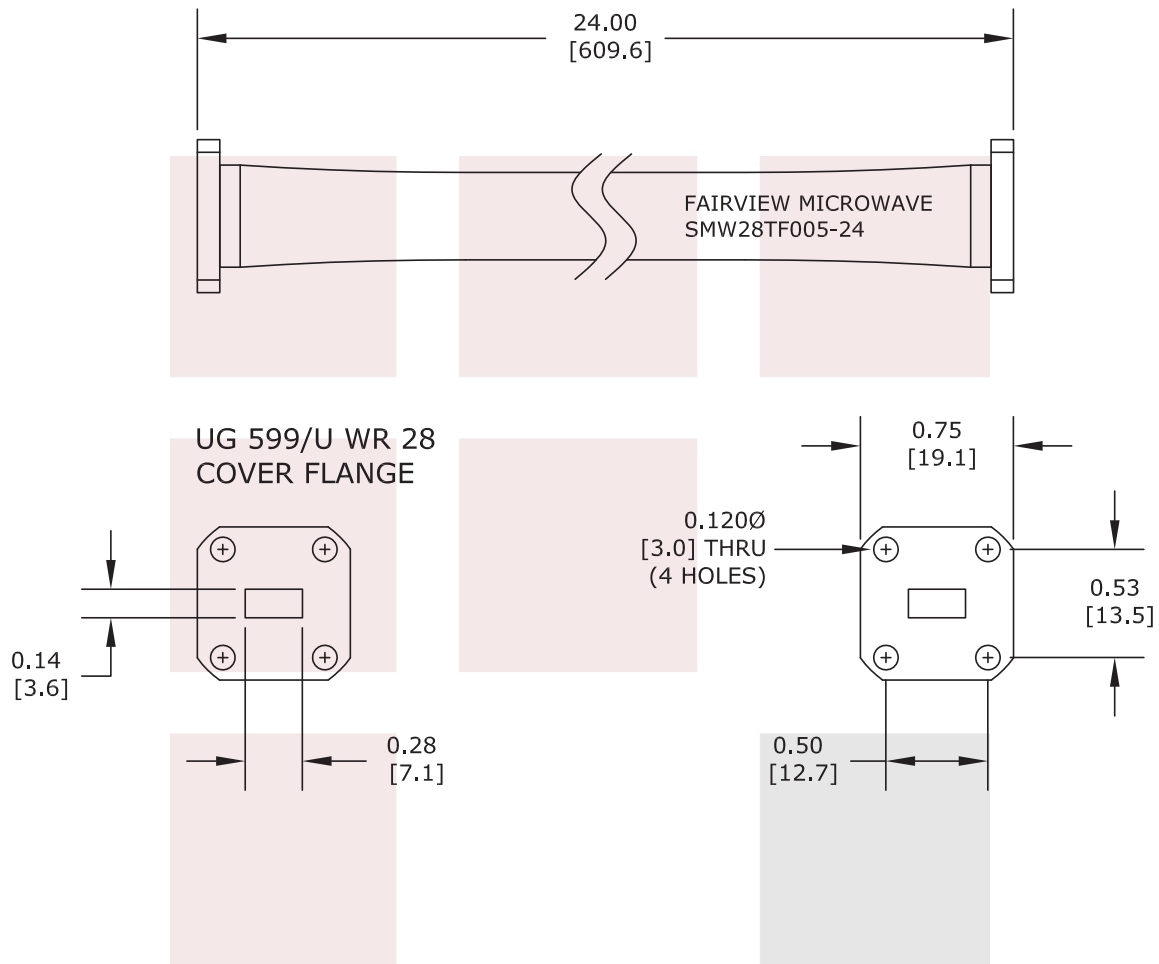


WR-28 Twistable Flexible Waveguide Using UG-599/U Square Cover Flange With a 26.5 GHz to 40 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-28 Twistable Flexible Waveguide Using UG-599/U Square Cover Flange With a 26.5 GHz to 40 GHz Frequency Range SMW28TF005-24](https://www.fairviewmicrowave.com/wr-28-twistable-flexible-waveguide-ug599-square-26.5-40-ghz-smw28tf005-24-p.aspx)

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TITLE WR-28 Twistable Flexible Waveguide Using UG-599/U Square Cover Flange With a 26.5 GHz to 40 GHz Frequency Range		DWG NO SMW28TF005-24		CAGE CODE 3FKR5	
CAD FILE 092815 SHEET		SCALE N/A		SIZE A 2233	