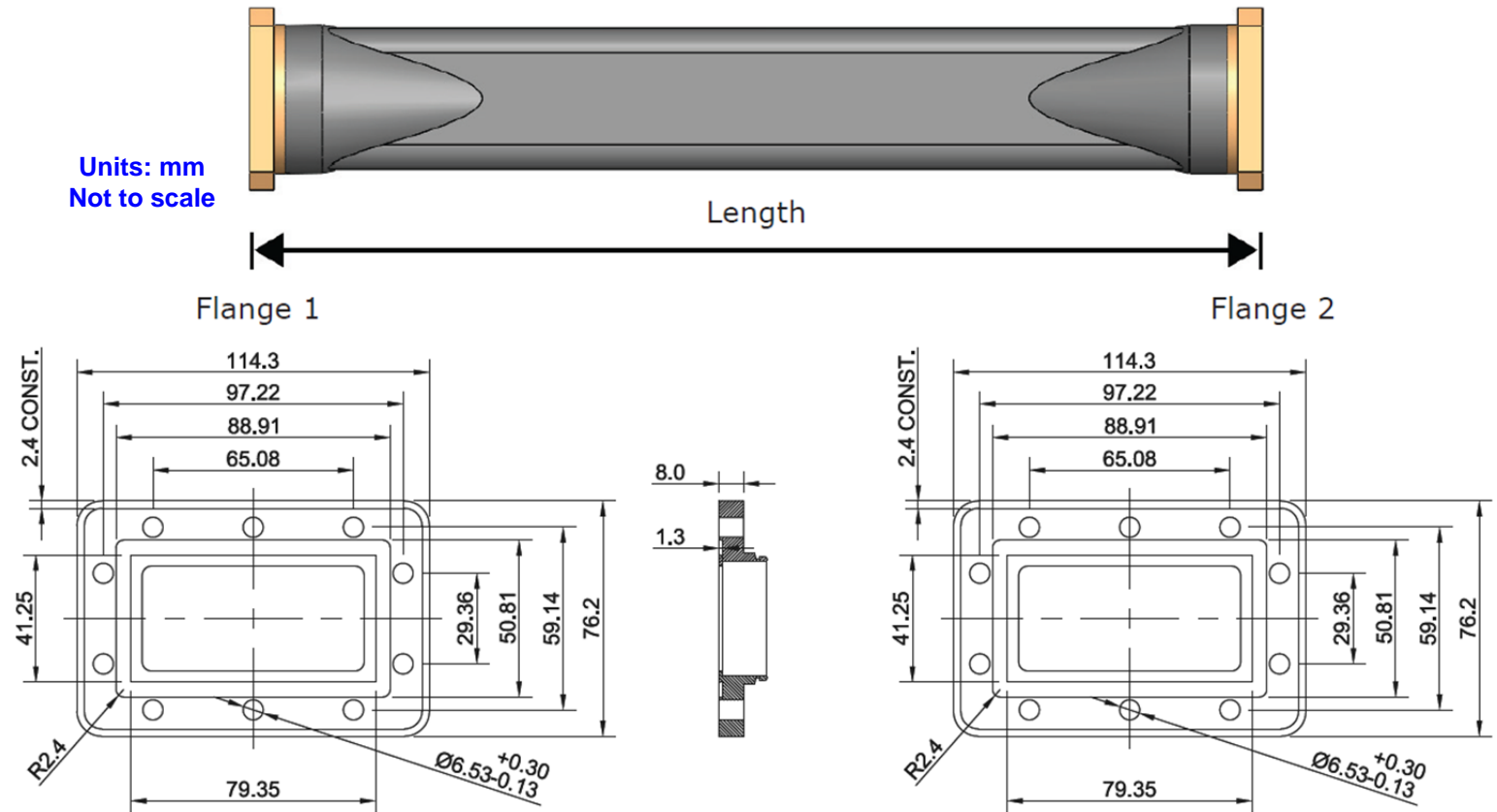


Flexible-Twistable or Flexible-Seamless Waveguide 2.60-3.95 GHz, WR284 Package, CPR284G Flange, Custom length



There are two types of flexible waveguide:

Flexible / twistable waveguide core starts life as a spool of 0.1mm thick, silver plated, brass strip. The strip is then precision rolled into a three-dimensional profile before being helically wound around a rotating mandrel to form a continuous rectangular tube with uniform cross section and internal silver plating to minimize loss.

Flexible / twistable waveguide is not pressure tight without a jacket

Flexible / non-twistable waveguide which is manufactured in a similar way to flexible / twistable waveguide with the addition of a solder wire which is later melted to prevent the waveguide twisting. This also reduces any RF leakage. Seamless flexible waveguide is manufactured from a thin brass tube, which is mechanically manipulated into a corrugated form to produce a seamless flexible waveguide. The seamless construction generally allows for greater power and pressure handling although length is limited to 1 metre.

Order Examples: RFTWG-2.6-3.95-WR284-CPR284G-36in-k23

Description: (Flexible Twistable Waveguide, 2.6-3.95GHz, WR284 Package, CPR284G Flange, 36 inches length)

Addition option: (RFSWG -Flexible Seamless)

Flexible-Twistable or Flexible-Seamless Waveguide 2.60-3.95 GHz, WR284 Package, CPR284G Flange, Custom length

Description			
Product Type:		Flexible Twistable Waveguide or Flexible Seamless	
Waveguide Size:		WR284	
Flange 1:		CPR 284G	
Flange 2:		CPR 284G	
Length:		915 mm / 36.0 inches +/- 1.5% or +/- 2 mm	
Flange Material / Finish:		Brass Flanges / No Plating	
Accessories:		None	
Mechanical Specifications			
Jacket Material:		Silicone Rubber	
Core Material:		Silver Plated Brass	
Max. Recommended Operating Pressure:		3 psi / 0 kg/cm ² (Flexible Twistable) / 20.3 psi / 0 kg/cm ² (Flexible Seamless)	
Min E-Plane Bend Radius (Static):		206 mm / 8.1 inches (Flexible Twistable) / 75 mm / 2.95 inches (Flexible Seamless)	
Min H-Plane Bend Radius (Static):		412 mm / 16.2 inches (Flexible Twistable) / 140 mm / 5.51 inches (Flexible Seamless)	
Maximum Twist (Static):		105 Deg/m or 32.0 Deg/ft	
Min E-Plane Bend Radius (Repeated):		824 mm / 32.4 inches	
Min H-Plane Bend Radius (Repeated):		1648 mm / 64.9 inches	
Maximum Twist (Repeated):		25 Deg/m or 7.6 Deg/ft	
Electrical Specifications		Environmental Performance	
Frequency Range:	2.60 - 3.95 GHz	Temperature Range:	-70 to +150°C
Insertion Loss:	0.10065 dB Maximum (Flexible Twistable) / 0.14 dB (Flexible Seamless)	UV Resistance	Excellent
Return Loss:	29.5 dB Minimum (Flexible Twistable) / 29.4 dB (Flexible Seamless)	Ozone Resistance:	Excellent
Peak Power:	2.2 MW Maximum (Flexible Twistable) / 2 MW (Flexible Seamless)	I.P. Rating:	IP68
Average (CW) Power:	4 kW Maximum	Salt Mist:	BS EN 60068-2-52 (method Kb) - Extreme Marine Environments