

90° Waveguide Twists

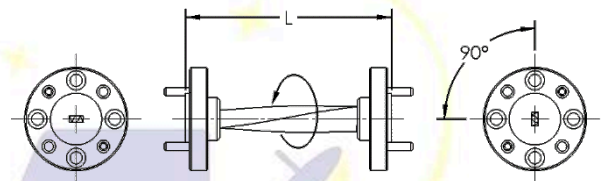
Summary:

Our catalog of Twists for rotating the plane of polarization in a waveguide transmission line are available in WR3 to WR42. All units are precisely formed to the degree of twist called for while maintaining a uniform cross section of the waveguide. Special attention is paid to these two factors in order to reduce reflections due to discontinuities in the waveguide and mismatch at the flanges. Twists are coinsilver for WR3 and WR4, copper for WR5 and up. Electroformed parts below WR3 are also available. In addition to the models listed, Twists with different angles, lengths, & flanges can be supplied on special order.



Ordering Example:

TW12R-90 is a 90-degree twist in WR-12 waveguide with round flanges.



Part Name	RF Specifications				Mechanical Specifications			
	WR	Frequency (GHz)	Insertion Loss (dB)	Max VSWR	A DIM (in)	B DIM (in)	Length (in)	Flange
TW42S-90	42	18 - 26.5	0.03	1.02:1	0.4200	0.1700	2.5	S 0.875
TW28S-90	28	26.5 - 40	0.05	1.02:1	0.2800	0.1400	2	S 0.750
TW22R-90	22	33 - 50	0.06	1.02:1	0.2240	0.1120	2	R 1.125
TW19R-90	19	40 - 60	0.075	1.02:1	0.1880	0.0940	2	R 1.125
TW15R-90	15	50 - 75	0.1	1.03:1	0.1480	0.0740	1.8	R 0.750
TW12R-90	12	60 - 90	0.15	1.03:1	0.1220	0.0610	1.8	R 0.750
TW10R-90	10	75 - 110	0.15	1.03:1	0.1000	0.0500	1.5	R 0.750
TW8R-90	8	90 - 140	0.2	1.03:1	0.0800	0.0400	1.2	R 0.750
TW6R-90	6	110 - 175	0.25	1.03:1	0.0650	0.0325	1.2	R 0.750
TW5R-90	5	140 - 220	0.3	1.04:1	0.0510	0.0255	1	R 0.750
TW4R-90	4	170 - 260	0.35	1.04:1	0.0430	0.0215	1	R 0.750
TW3R-90	3	220 - 325	0.45	1.04:1	0.0340	0.0170	1	R 0.750