

Satcoms Cross-Guide Couplers

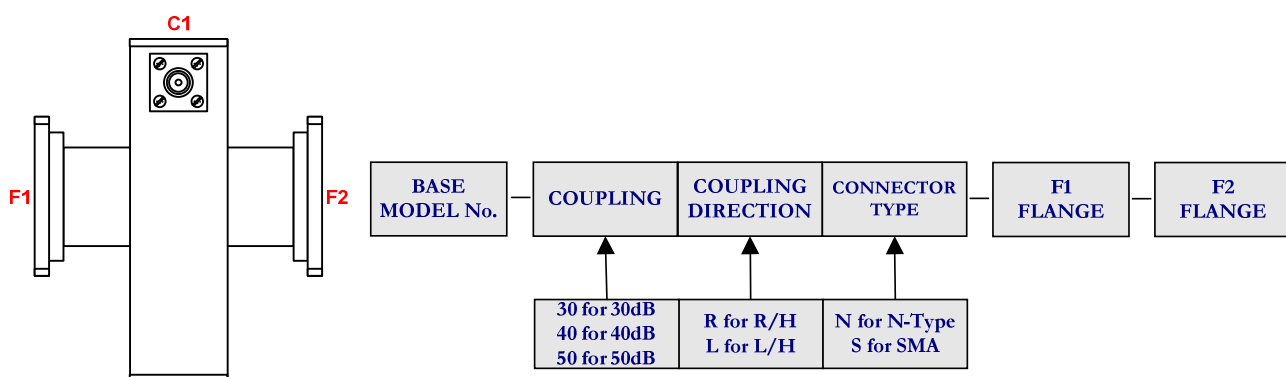
Luso Electronics range of satcoms band single cross-guide couplers have excellent coupling flatness and directivity over the standard satellite communications frequency bands. They are ideally suited to applications like forward and reverse power monitoring. Standard construction is copper waveguide with brass flanges. For custom design requirements, including other connectors and different configurations including dual or triple secondary arms please contact the sales office.

Full band specifications

Mean Coupling	30, 40 or 50dB ± 1dB
Coupling Sensitivity	± 0.5dB max.
Directivity	23.0dB min. (25.0dB typical)
Main Line VSWR	1.05:1 max.
Secondary Arm VSWR	1.20:1 max.

Standard product table

WAVEGUIDE SIZE		FREQUENCY RANGE (GHz)	STANDARD FLANGES	CONNECTOR TYPE (FEMALE)	BASE MODEL No.
WR229	WG11A	3.60 – 4.20	CPR229G	N or SMA	LU229XC1
WR159	WG13	5.80 – 7.00	CPR159G	N or SMA	LU159XC1
WR137	WG14	5.85 – 6.65	CPR137FG	N or SMA	LU137XC1
WR112	WG15	7.25 – 7.75	PBR84	N or SMA	LU112XC1
WR112	WG15	7.90 – 8.40	PBR84	N or SMA	LU112XC2
WR75	WG17	10.70 – 12.75	PBR120	N or SMA	LU75XC1
WR75	WG17	12.75 – 14.50	PBR120	N or SMA	LU75XC2
WR75	WG17	13.75 – 14.50	PBR120	N or SMA	LU75XC3
WR62	WG18	17.30 - 18.40	PBR140	N or SMA	LU62XC1



Coupling Direction: Left Hand is from F1 to C1 and Right Hand is from F2 to C1

Example: [LU75XC1-40LN](#) is a WR75 Cross-guide coupler covering 10.70–12.75 Ghz. with a 40dB coupling from F1 to C1 and an N-type connector. Standard flanges are PBR120. For other flange types, please specify F1 and F2 on purchase order.