

Phasing harness

For sidemount dipoles
or Yagi's



A phasing harness is for combining the feeder of 2 or 4 antennas into a single 50 Ohm input. The antennas may be a stack array formation of either sidemount dipoles or yagi's.

- PDD models are for Sidemount dipoles array's - specify frequency
- PDY models are for Yagi array's - specify Yagi model or frequency

Sidemount dipoles are generally stacked at 0.7 to 0.8λ - wavelength separation.

Yagi's are normally stacked to provide maximum forward gain. The separation distance will vary according to the number of elements and changes from approximately 1.3λ (waves) for 6 element models to 2λ (waves) for 15 element models.

The harness will be manufactured to exact requirements to suit the standard stacking distance, unless you specify otherwise.



Specifications	Scaled phasing harness PDD or PDY
Construction	Moulded plastic, coaxial cable and chrome connectors
Frequency range	Specify Transmit and Receive when ordering
Maximum bandwidth	10% around your centre frequency
Return loss, VSWR	All harnesses are optimised for better than -15dB, <1.5:1
Impedance	50 Ohm
Transformer cable	RG11 - Huber & Suhner
Input/output cable	RG213 - MIL-SPEC
Connectors	N-type female fitted to input arm, N-type male on each output arm - or specify requirements such as 7/16" DIN female



Model codes on following page...

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Specifications	For sidemount dipoles - PDD	
	2-way harness	4-way harness
VHF 70-85MHz	PDD22	PDD24
FM radio 87.5-108MHz	PDD52A	PDD54A
VOR/ILS 100-118MHz	N/A	N/A
Air band 118-137MHz	PDDA2	PDDA4
VHF 148-174MHz	PDD32	PDD34
Maximum power	500 Watts	500 Watts
VHF TV/ DAB radio 174-230MHz	PDD22-DAB	PDD24-DAB
Maximum power	800 Watts	800 Watts
UHF 400-520MHz	PDD42	PDD44
UHF TV 520-800MHz	PDD62	PDD64
Mobile phone 800-960MHz	PDD82	PDD84
Maximum power	50 Watts	50 Watts
Specifications	For Yagi's - PDY	
	2-way harness	4-way harness
VHF 70-85MHz	PDY22	PDY24
FM radio 87.5-108MHz	PDY52A	PDY54A
VOR/ILS 100-118MHz	PDY52B	PDY54B
Air band 118-137MHz	PDYA2	PDYA4
VHF 148-174MHz	PDY32	PDY34
Maximum power	500 Watts	500 Watts
VHF TV/DAB radio 174-230MHz	PDY22-DAB	PDY24-DAB
Maximum power	800 Watts	800 Watts
UHF 400-520MHz	PDY42	PDY44
UHF TV 520-800MHz	PDY62	PDY64
Mobile phone 800-960MHz	PDY82	PDY84
Maximum power	50 Watts	50 Watts