



Phasing harness

For sidemount dipoles or Yagi Antennas

Custom frequency scaled



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.



Scaled phasing harness PDD or PDY

Construction	Moulded plastic, coaxial cable and chrome connectors
Frequency range	See table below for frequency ranges available or specify requirements
Maximum bandwidth	10% around your centre frequency or Tx/Rx - Tx favoured
VSWR	All harnesses are optimised for better than $<1.5:1$
Impedance	50 Ohms - nominal
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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	For sidemount dipoles - PDD	
	2-way harness	4-way harness
70-85 MHz - VHF mid band	PDD22	PDD24
87.5-108 MHz - FM Radio	PDD52A	PDD54A
100-118 MHz - VOR/ILS	N/A	N/A
118-137 MHz - VHF Air band	PDDA2	PDDA4
148-174 MHz - VHF high band	PDD32	PDD34
Maximum power	500 Watts	500 Watts
174-230 MHz - VHF TV/DAB radio	PDD22-DAB	PDD24-DAB
Maximum power	800 Watts	800 Watts
400-520 MHz - UHF/TETRA/LMR	PDD42	PDD44
520-800 MHz - UHF TV/ LTE	PDD62	PDD64
800-960 MHz - Cellular	PDD82	PDD84
Maximum power	50 Watts	50 Watts
	For Yagi's - PDY	
	2-way harness	4-way harness
70-85 MHz - VHF mid band	PDY22	PDY24
87.5-108 MHz - FM Radio	PDY52A	PDY54A
100-118 MHz - VOR/ILS	PDY52B	PDY54B
118-137 MHz - VHF Air band	PDYA2	PDYA4
148-174 MHz - VHF high band	PDY32	PDY34
Maximum power	500 Watts	500 Watts
174-230 MHz - VHF TV/DAB radio	PDY22-DAB	PDY24-DAB
Maximum power	800 Watts	800 Watts
400-520 MHz - UHF/TETRA/LMR	PDY42	PDY44
520-800 MHz - UHF TV/ LTE	PDY62	PDY64
800-960 MHz - Cellular	PDY82	PDY84 - uses RG142 UV rated teflon cable
Maximum power	50 Watts	50 Watts