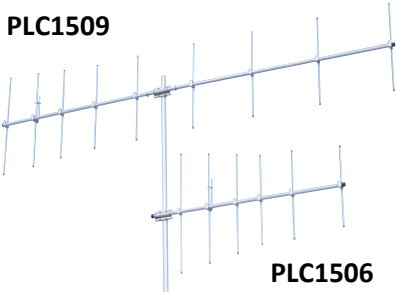




Smart Technology. Delivered.

# P-PLC Heavy Duty Yagi Antennas

## 30-75 MHz / 129-174 MHz



### HEAVY-DUTY PLC SERIES 7.1 OR 11.1 dBi GAIN

Laird's PLC Yagis are heavy-duty point-to-point antennas, commonly used in data transmission and control station applications. With a frequency range of 30-75 MHz and 129-174 MHz they feature a preset Reddi-Match and can be quickly and easily assembled at the installation site. Precisely machined boom-to-element blocks prevent corrosion and noise buildup. Outstanding performance and mechanical integrity make these antennas an excellent value.

### VHF YAGI SELECTOR GUIDE

| MODEL    | FREQ. MHz | GAIN dBi | NO. ELEM | F to B dB | -3dB BEAMWIDTH E-PLANE° | H-PLANE° | CONNECTOR TYPE | W/ SURFACE AREA ft <sup>2</sup> (m <sup>2</sup> ) | W/ SURV. mph (kph) | W/ 1/2" ICE | LENGTH in (cm) | WT. lb (kg) |
|----------|-----------|----------|----------|-----------|-------------------------|----------|----------------|---|--------------------|-------------|----------------|-------------|
| PLC-1346 | 134-142   | 7.1      | 6        | 20        | 53                      | 74       | UHF            | 1.49 (0.138)                                      | 125 (200)          | 100 (161)   | 72 (182.9)     | 7.2 (3.2)   |
| PLC-1426 | 142-150   | 7.1      | 6        | 20        | 53                      | 74       | UHF            | 1.44 (0.133)                                      | 125 (200)          | 100 (161)   | 70 (177.8)     | 7.2 (3.2)   |
| PLC-1506 | 150-158   | 7.1      | 6        | 20        | 53                      | 74       | UHF            | 1.39 (0.129)                                      | 125 (200)          | 100 (161)   | 66 (167.6)     | 7.2 (3.2)   |
| PLC-1586 | 158-166   | 7.1      | 6        | 20        | 53                      | 74       | UHF            | 1.34 (0.124)                                      | 125 (200)          | 100 (161)   | 64 (162.6)     | 7.1 (3.2)   |
| PLC-1666 | 166-174   | 7.1      | 6        | 20        | 53                      | 74       | UHF            | 1.29 (0.120)                                      | 125 (200)          | 100 (161)   | 64 (162.6)     | 7.0 (3.15)  |
| PLC-1369 | 136-142   | 11.1     | 9        | 20        | 35                      | 45       | UHF            | 2.77 (0.256)                                      | 125 (200)          | 100 (161)   | 161 (408.9)    | 11.1 (5.0)  |
| PLC-1509 | 150-158   | 11.1     | 9        | 20        | 35                      | 45       | UHF            | 2.42 (0.224)                                      | 125 (200)          | 100 (161)   | 144 (365.7)    | 10.3 (4.6)  |
| PLC-1589 | 158-166   | 11.1     | 9        | 20        | 35                      | 45       | UHF            | 2.32 (0.214)                                      | 125 (200)          | 100 (161)   | 137 (347.0)    | 10.4 (4.7)  |
| PLC-1669 | 166-174   | 11.1     | 9        | 20        | 35                      | 45       | UHF            | 2.25 (0.208)                                      | 125 (200)          | 100 (161)   | 131 (332.7)    | 10.0 (4.5)  |

**Common specifications: Power handling - 400 Watts; Element material - 1/2 in (1.3 cm) 6063-T832 aluminum tube; Boom material: 1-1/8 in (2.9 cm) 6063-T832 aluminum tube; Maximum mast diameter: 2-1/8 in (5.4 cm); Mounting style; U-bolts and plate.**

| MODEL  | FREQ. MHz | GAIN dBi | NO. ELEM | F to B dB | -3dB BEAMWIDTH E-PLANE° | H-PLANE° | CONNECTOR TYPE | W/ SURFACE AREA ft <sup>2</sup> (m <sup>2</sup> ) | W/ SURV. mph (kph) | W/ 1/2" ICE | LENGTH in (cm) | WT. lb (kg) |
|--------|-----------|----------|----------|-----------|-------------------------|----------|----------------|---|--------------------|-------------|----------------|-------------|
| P142-4 | 138-142.5 | 6.5      | 4        | 18        | 65                      | 80       | UHF            | 0.53 (0.049)                                      | 125 (200)          | 100 (161)   | 44 (110)       | 2.7 (1.21)  |
| P150-4 | 146-150.5 | 6.5      | 4        | 18        | 65                      | 80       | UHF            | 0.52 (0.048)                                      | 125 (200)          | 100 (161)   | 44 (110)       | 2.7 (1.21)  |
| P154-4 | 150-154.5 | 6.5      | 4        | 18        | 65                      | 80       | UHF            | 0.51 (0.047)                                      | 125 (200)          | 100 (161)   | 44 (110)       | 2.7 (1.21)  |
| P158-4 | 154-158.5 | 6.5      | 4        | 18        | 65                      | 80       | UHF            | 0.50 (0.046)                                      | 125 (200)          | 100 (161)   | 44 (110)       | 2.7 (1.21)  |
| P162-4 | 158-162.5 | 6.5      | 4        | 18        | 65                      | 80       | UHF            | 0.49 (0.049)                                      | 125 (200)          | 100 (161)   | 44 (110)       | 2.6 (1.17)  |
| P166-4 | 162-166.5 | 6.5      | 4        | 18        | 65                      | 80       | UHF            | 0.48 (0.044)                                      | 125 (200)          | 100 (161)   | 44 (110)       | 2.6 (1.17)  |
| P174-4 | 170-174.5 | 6.5      | 4        | 18        | 65                      | 80       | UHF            | 0.46 (0.042)                                      | 125 (200)          | 100 (161)   | 44 (110)       | 2.6 (1.17)  |

**Common Specifications: Power handling - 400 Watts; Element material - 3/16in (.48 cm) 6063-T832 aluminum rod; Boom material: 7/8 in (2.2 cm) 6063-T832 aluminum tube; Maximum mast diameter: 2-1/8 in (5.4 cm); Mounting style; U-bolt and bracket.**

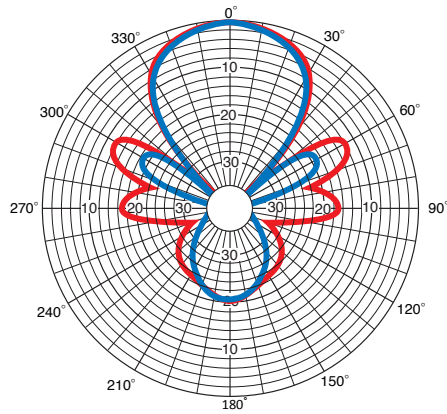


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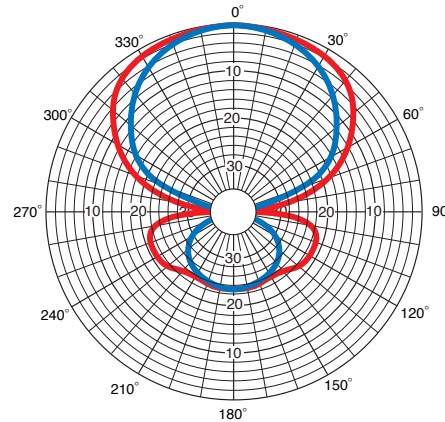
# P-PLC Heavy Duty Yagi Antennas

## 30-75 MHz / 129-174 MHz

Typical 6 Element PLC



Typical 9 Element PLC



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ANT-DS-P-PLC Heavy Duty Yagi Antennas 0516

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