

Helical Antenna with Universal FME-Connection System  
for Portable Equipment in the 2 m Band

DESCRIPTION

- Flexible, conical steel helix moulded in flexible thermoplastic rubber.
- Reduced-size  $\frac{1}{4} \lambda$  helical antenna whip.
- Optimum performance compared to physical dimensions.
- -3 dB gain (typ.) compared to a  $\frac{1}{4} \lambda$  antenna whip on the same equipment.
- Delivered factory-tuned and -tested to ensure minimum VSWR.
- Provided with universal FME-connection system for optimum flexibility and easily exchangeable connectors.
- The HX 2 is also available with SMA(m) connector.
- Designed for use with the following of the Procom's line of black FME-connectors (to be ordered separately): BFME-UHF, BFME-BNC, BFME-TNC, BFME-N, BFME-EBNC and BFME-ETNC.



SPECIFICATIONS

| Electrical       |                                                                                        |
|------------------|----------------------------------------------------------------------------------------|
| Model            | HX 2/...-FME                                                                           |
| Frequency        | 2 m band covered by three models                                                       |
| Antenna Type     | Shortened $\frac{1}{4} \lambda$ helical antenna                                        |
| Max. Input Power | 25 W                                                                                   |
| Polarisation     | Vertical                                                                               |
| Impedance        | 50 $\Omega$                                                                            |
| Gain             | Approx. -3 dB (compared to a $\frac{1}{4} \lambda$ antenna whip on the same equipment) |
| VSWR             | < 1.5:1 when mounted directly on portable equipment                                    |
| Bandwidth        | $\geq 16$ MHz @ VSWR $\leq 3.0:1$                                                      |
| Mechanical       |                                                                                        |
| Connection(s)    | FME(f) or SMA(m) (Exchangeable BFME-connectors to be ordered separately)               |
| Materials        | Steel helix moulded in flexible thermoplastic rubber<br>Black-chromed brass            |
| Colour           | Black                                                                                  |
| Height           | Approx. 150 mm / 5.91 in.                                                              |
| Weight           | Approx. 0.03 kg / 0.07 lb.                                                             |

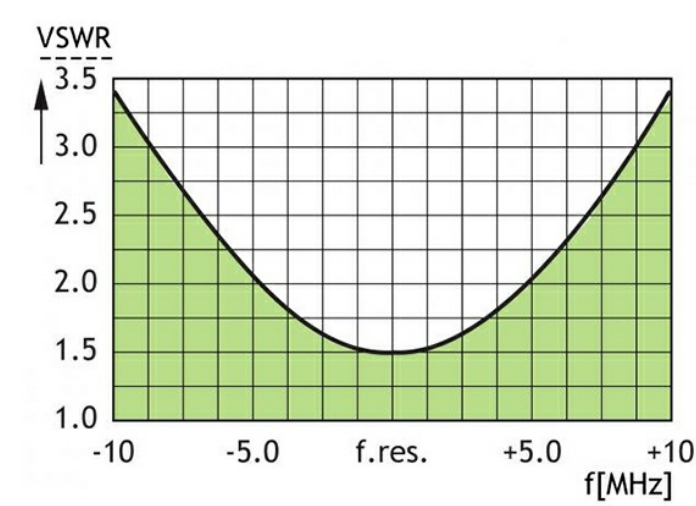
ORDERING

| Model         | Product No. | Frequency     |
|---------------|-------------|---------------|
| HX 2/l-FME(f) | 140000137   | 144 - 160 MHz |
| HX 2/m-FME(f) | 140000140   | 152 - 168 MHz |
| HX 2/h-FME(f) | 140000121   | 160 - 175 MHz |
| HX 2/l-SMA(m) | 140000285   | 144 - 160 MHz |
| HX 2/m-SMA(m) | 140000282   | 152 - 168 MHz |
| HX 2/h-SMA(m) | 140000283   | 160 - 175 MHz |

PLEASE NOTE

The HX 2 is also available with SMA-male connector and different thread studs, but in this case with fixed, non-exchangeable connector (not FME-connection system). Information on these special versions on request.

TYPICAL VSWR CURVE



RECOMMENDED BFME-CONNECTORS

|                      |                     |                      |                   |
|----------------------|---------------------|----------------------|-------------------|
| <b>BFME-UHF</b><br>  | <b>BFME-BNC</b><br> | <b>BFME-TNC</b><br>  | <b>BFME-N</b><br> |
| <b>BFME-EBNC</b><br> |                     | <b>BFME-ETNC</b><br> |                   |

(To be ordered separately)

