End-Fed ½ λ Dipole Antenna with Universal FME-Connection System for Portable Equipment in the 1800 MHz band

DESCRIPTION

- Flexible antenna made of steel wire covered with black silicone tubing.
- End-fed ½ λ whip – groundplane independent.
- High gain and efficient decoupling from the portable equipment due to half-wave design.
- 3 dB gain compared to a ¼ λ antenna whip on the same equipment.
- Highest quality materials in a long-lasting and durable design.
- Models available for the DCS-1800/PCN cellular system and for the DECT cordless telephone system.
- Provided with universal FME-connection system for optimum flexibility and easily exchangeable connectors.
- The FLX 1812 is also available with SMA(m) connector, but in this case with fixed, nonexchangeable connector (not FME-connection system).
- Designed for use with the following of Procom's line of black FME-connectors (to be ordered separately): BFME-BNC, BFME-TNC, BFME-N, BFME-MUHF, BFME-EBNC, BFME-ETNC and BFME-EMUHF.

SPECIFICATIONS

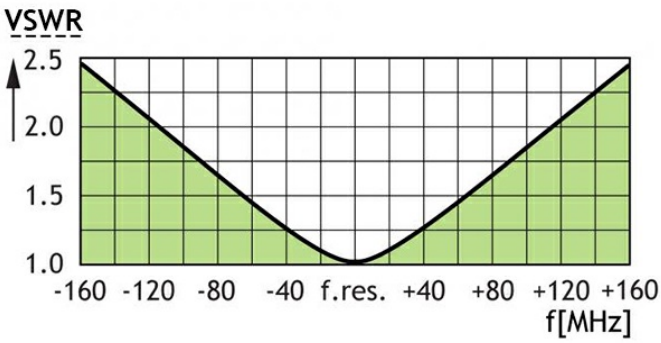
Electrical	
Model	FLX 1812/...-FME
Frequency	Center frequency to be stated within 1700 - 1900 MHz
Antenna Type	End-fed ½ λ antenna for portable equipment
Max. Input Power	5 W
Polarisation	Vertical
Impedance	50 Ω
Gain	0 dBd / 2.5 dBi (3 dB compared to a ¼ λ portable antenna)
VSWR	< 1.3:1 @ f. res.
Bandwidth	> 200 MHz @ VSWR < 2.0

Mechanical	
Connection(s)	FME(f) or SMA(m) (Exchangeable BFME-connectors to be ordered separately)
Materials	Silicone tube over flexible steel wire Black-chromed brass
Colour	Black
Height	Approx. 115 mm / 4.53 in.
Weight	Approx. 0.025 kg / 0.06 lb

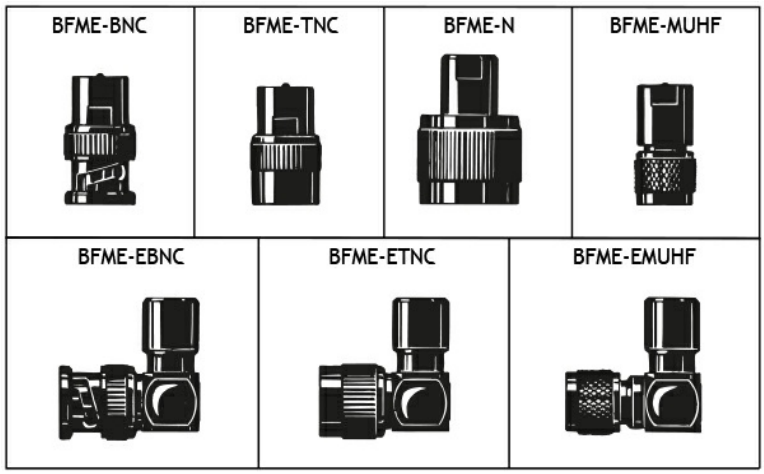
ORDERING

Model	Product No.	Description	Frequency
FLX 1812/DCS-FME(f)	140000220	DCS-1800/PCN cellular system	1710 - 1880 MHz
FLX 1812/DECT-FME(f)	140000219	DECT cordless telephone	1880 - 1900 MHz
FLX 1812/DCS-SMA(m)	140000657	DCS-1800/PCN cellular system	1710 - 1880 MHz
FLX 1812/DECT-SMA(m)	140000656	DECT cordless telephone	1880 - 1900 MHz

TYPICAL VSWR CURVE



RECOMMENDED BFME-CONNECTORS



(To be ordered separately)

PLEASE NOTE

The FLX 1812 is also available with SMA male connector, but in this case with fixed, nonexchangeable connector (not FME-connection system). Information on this special version on request.

PROCOM A/S reserves the right to
amend specifications without prior notice