

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

Mk 419 Multi-Function Fuze (MFF)

The Multi-Function Fuze (MFF) is a solid state electronic, short intrusion, inductively programmable, multi-function projectile fuze. It combines five modes of operation including an advanced radar proximity sensor into a single fuze, making it the most effective munitions fuze available today. Modes of operation are:

- Air Proximity (AIR): Detonates at optimal position to target
- Point Detonation (PD): Detonates on land or sea targets
- Electronic Time (ET): Selectable detonation time
- Surface Proximity (HOB): Selectable height of burst above land or sea including negative heights below a reflective canopy
- Autonomous (AUTO): Default mode that combines both AIR and HOB modes

Applications

The MFF is designed for use on the Mk187 projectile used on U.S. Navy guns 5"/54 caliber Mk45 Mod 1, 2, 5"/62 caliber Mk45 Mod 4 and 76 mm.

Qualification and Production Data

- Mod 0 qualified - 2002
- Mod 0 entered production - 2003
- Mod 1 entered production - 2014

Product Features and Benefits

- Expanded target range
- High explosive with high velocity fragments
- Improved logistics, safety and effectiveness vs. other fuzes
- Reduces susceptibility to electromagnetic environments
- Capable of engaging high speed maneuverable surface threats
- Meets MIL-STD-333 and STANAG 2916 contour requirements

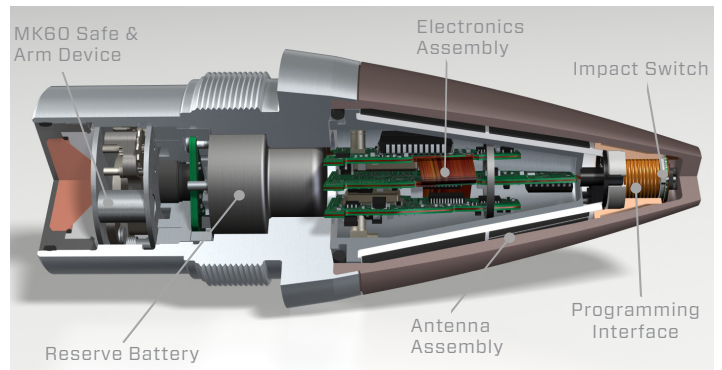
Specifications

Technical Data

Weight:	1.98 lb (0.898 kg) max
Length:	5.97 in (151.638 mm) max
Diameter:	2.4 in (60.96 mm) max
Safe and Arm device:	2.4 in (60.96 mm) max

Performance Data

Setback:	26,000g (max)
Rotation:	410 RPS (max)
Velocity:	3.075 ft per second (937 m per sec)
Aiming distance:	5"/54: 980-1,330 ft (299 - 405 m) 5"/62: 980-1,330 ft (299 - 405 m)
Safety (no arm):	Up to 1,000g setback; 50 RPS spin
Storage life:	2 years (uncontrolled) 20 years (controlled)



Multi-function fuze cutaway

For more information contact:

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