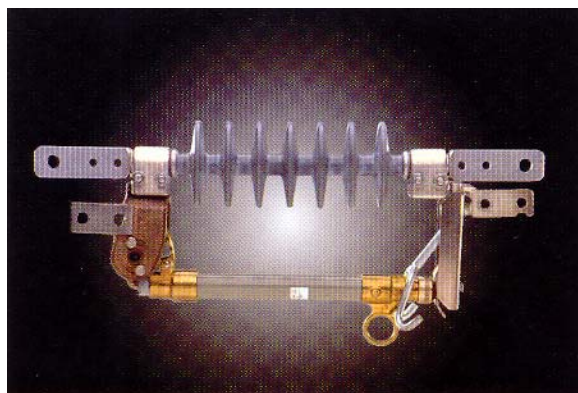


# ULTRA-LIGHT IN-LINE FUSED SWITCH



## APPLICATION

An open fuse cutout (fused switch) is a device that provides protection against excessive currents produced by abnormal conditions such as line faults, line or equipment overloads or equipment failures. Firon's type "IF" in-line fused cutout provides this protection. Two voltage rated units, 15kV and 27kV are available to meet the user's needs. These are mounted on Silicone dead end type insulators, which exceed leakage distances of porcelain type cutouts. The fuseholder of these units are interchangeable with other manufacturers.

The in-line fused switch is ideal and inexpensive for line protection. With this style of switch, it is not necessary to dead end the line and then bring the line to the cutout and the disconnect switch mounted on a pole.

The "IF", in-line fused switch can be applied without restrictions on any three phase system that has a line-to-line voltage less or equal to the switch rating. They can also be applied on any single phase to neutral circuit or three-phase solidly grounded WYE connected circuit, where the recovery voltage does not exceed the cutout rating.

The cutout selected should have a continuous current rating sufficient to handle the expected load. The 100 amp rated fuseholder accepts fuse links from 1 to 100 amps. The 200 amp (\*) fuseholder will accept fuse links from 140 to 200 amps. A 300 amp disconnect blade is also available.

NOTE: \*For application on a single phase-to-neutral or solidly grounded WYE connected circuit, where the recovery voltage does not exceed the maximum design voltage of the device.

## CONSTRUCTION

Mounted on a Silicone insulator with galvanized cast iron clamps, the hinge and jaw housings are constructed of a tin plated cast bronze. Stainless steel back-up springs and nickel plated, copper contacts minimize contact resistance and ensure excellent continuous contact throughout the life of the unit. A large stainless steel coil spring ensures constant contact pressure for operating currents until interruption is completed. A stainless steel sleet hood provides improved protection of line contacts from icing. Loadbreak hooks for use with the Loadbuster™ tool are standard and serve as a "close-in" guide to ensure positive closure.

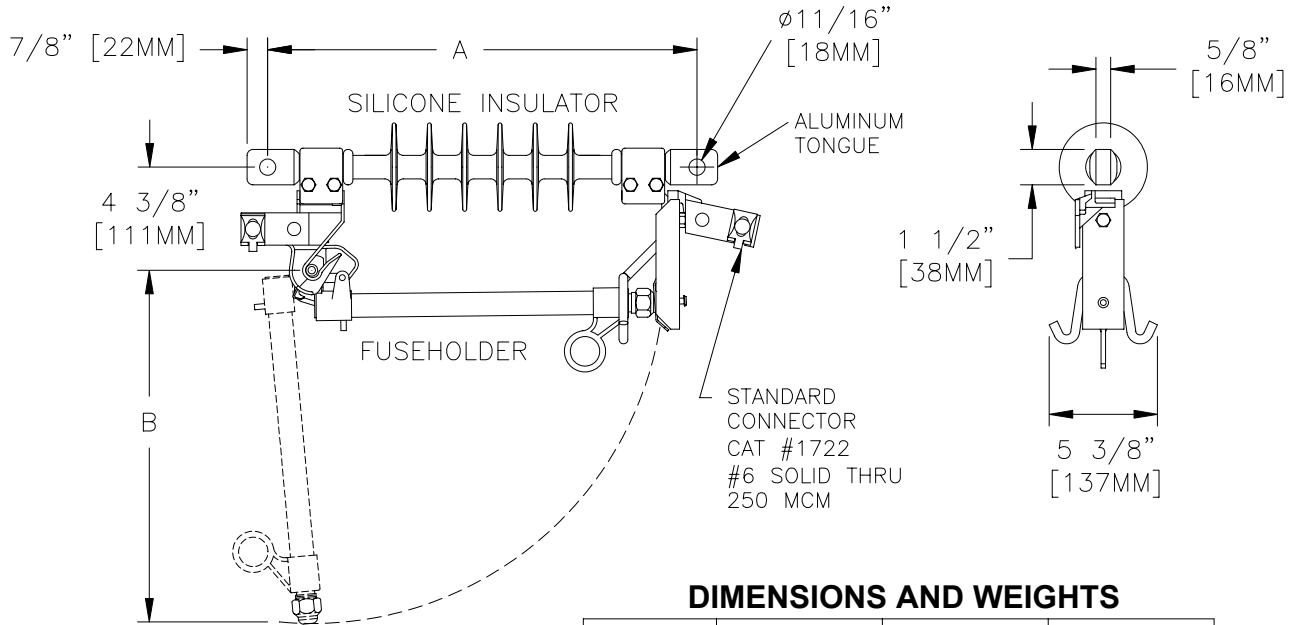
The fuse holder is single vented and constructed of an epoxy impregnated glass filament wound tube, utilizing arc-quenching materials. A large bronze pull ring is utilized for ease of operation and re-fusing. The bronze trunnion, with lifting ring is both side and front assessable. The grooved flipper assembly controls link tension and ensure low fault interruption and prevent link breakage on "close-in".

The insulator is a strain insulator type with tongue terminations at each end.

The Ultra-Light in-line fused switch uses standard distribution fuse links.

NOTE: Two hole Nema pad or #6 solid thru 4/0 ACSR or 250 MCM Str parallel connectors are available.

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## DIMENSIONS AND WEIGHTS

CATALOG NUMBER	A		B		WEIGHT	
	IN.	MM.	IN.	MM.	LB	KG
IF15100	13 1/2	343	11 5/8	295	11	5
IF15200						
ID15300						
IF27100	18 1/16	460	15 1/8	384	13	6
IF27200						
ID27300						

## IN-LINE FUSED SWITCH SPECIFICATIONS

CATALOG NUMBER	RATED VOLTAGE	CURRENT		NOMINAL BIL	LEAKAGE DISTANCE		DRY ARC DISTANCE	
		RATED	INTERRUPT ASYM		IN.	MM.	IN.	MM.
IF15100	15kV	100 A	16,000 A	110kV	15.1	384	7.6	193
IF15200 *		200 A	12,000 A					
ID15300		300 A	-					
IF27100	27kV	100 A	12,000 A	150kV	27.7	704	12.5	318
IF27200 *		200 A	10,000 A					
ID27300		300 A	-					

\* 200 AMP FUSE HOLDERS ARE RATED 7.8KV FOR THE IF15200 SWITCHES AND 15KV FOR THE IF27200 SWITCHES.

### OPTIONS:

- FOR 2 HOLE NEMA PAD , ADD SUFFIX "N" TO THE CATALOG NUMBER. i.e. IF27100N.
- FOR ONE SET OF 2 HOLE NEMA PAD CONNECTORS (CATALOG 9920), ADD SUFFIX "C" TO THE CATALOG NUMBER. i.e. IF27100NC.