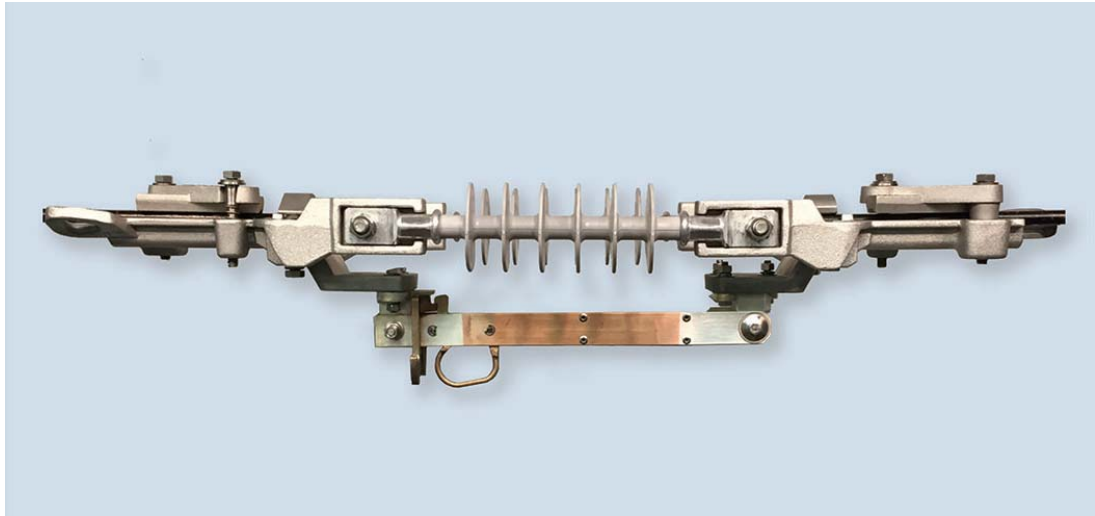


# ULTRA-LIGHT DOUBLE INSULATOR SWITCH



## APPLICATION

The Firon Ultra-Light Double Insulator Switch is an overhead, hook stick operated, disconnect device used to provide circuit isolation on aluminum distribution conductors. The switch is light weight and compact and the two insulator design results in a switch that can be installed without any line tensioning device or special installation tool. Since the switch is installed in line with the conductor, it eliminates the need for pole mounted switches resulting in decreased “pole clutter”. The switch is available in five voltage classes: 15, 28, 35, 46 & 69 kV and can accommodate AAAC & ACAR conductors from 3/0 thru 568.3.

## CONSTRUCTION

The switch is constructed with two insulator assemblies, two yoke plate and clamp assemblies and one disconnect blade. The insulators are constructed with silicone rubber weather sheds, a high strength fiberglass core and aluminum end fittings. The insulator is capable of handling over 10,000 lbs tension. The yoke plate and clamp assemblies are constructed with a high strength aluminum alloy.

The pulling eye of the yoke plate is rated at 6000 lbs and is used for releasing the conductor tension, when the switch needs to be removed from service.

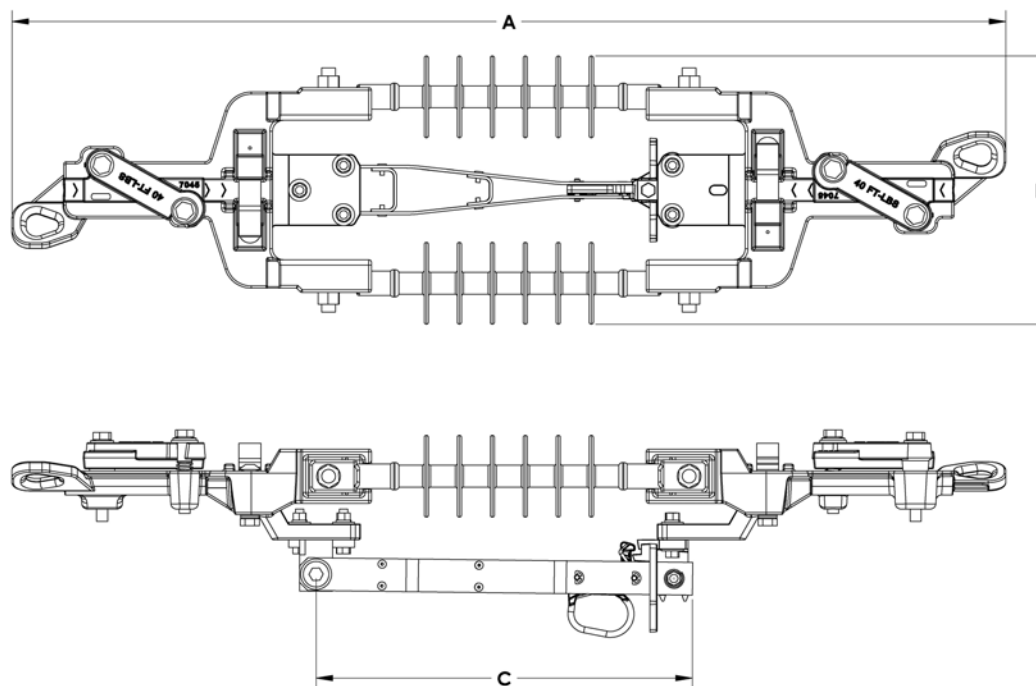
The jaw and hinge end assemblies are constructed of a high conductivity bronze alloy with a silver plated finish. The jaw end is designed with a double tongue contact to provide extra contact surface. The contact surface of the jaw and hinge ends perform a self wiping action when the disconnect blade is operated. The positive latching mechanism on the jaw end prohibits accidental opening of the switch blade.

The disconnect blade is a twin parallel copper design made from an ETP hard drawn copper with a silver plated finish. The twin blade construction provides lateral stability when closing the switch. The switch blade can open up to the standard 180°. An optional blade opening of 90° is available upon request.

The 15, 28 & 35 kV switches come with an integrated load break hook. When used in conjunction with a load break tool, the switch can interrupt the full current loads of the line. A load break hook can also be installed on the 46 kV switch upon request.

The switch meets CSA C83.71-96. for the mechanical tests & IEEE C37.30-2011 for the Dielectric, Short Time Withstand & Temperature Rise Tests.

# ULTRA-LIGHT DOUBLE INSULATOR SWITCH



SWITCH SPECIFICATION

CATALOG NUMBER	RATED VOLTAGE	CURRENT		NOM BIL	DIM "A"		DIM "B"		DIM "C"		WEIGHT	
		RATED	MOM		IN	[MM]	IN	[MM]	IN	[MM]	LBS	[KG]
DIS15900S	15 kV	900 A	40,000 A	110 kV	42.8	1087	11.5	292	14.3	363	34	15
DIS28900S	28 kV	900 A	40,000 A	150 kV	45.5	1156	12.4	315	17.3	439	36	16
DIS35900S	35 kV	900 A	40,000 A	200 kV	48.2	1224	12.4	315	19.8	503	37	17
DIS46900S	46 kV	900 A	40,000 A	250 kV	50.9	1293	12.6	320	22.6	574	40	18
DIS69900S	69 kV	900 A	40,000 A	350 kV	57.1	1450	14.2	360	28.8	731	45	20

Note: The DIS69900S is a 46 kV switch with 69 kV insulators.  
All switches accommodate AAAC & ACAR conductors (.502" thru .883" Dia).

**Options:**

The standard DIS46900S & DIS69900S have no load break hook. If required, add suffix "L" to the catalog number, i.e. DIS46900SL

The standard switch blade opening is 180°. For a 90° blade opening, add the suffix "-90" to the catalog number. i.e. DIS28900S-90