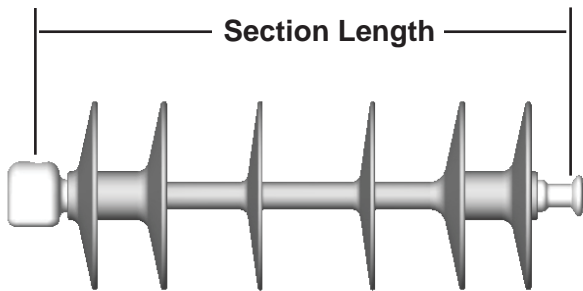




Bell Equivalent Suspension



Insulator Strength Ratings		
	SML	RTL
S1	25 klb	12.5 klb
	112 kN	56 kN



BE Series 35 kV - 69 kV

MacLean Power Systems' polymer mold-on bell equivalent insulator is targeted at maintenance applications where insulators need to be the same length. Traditionally with insulators 69kV and under, to achieve the same electrical and strength ratings of a porcelain insulator, the polymer insulator needs to be longer, which isn't possible on existing lines.

The strength of the polymer insulator is achieved by crimping metal end fittings to the fiberglass core. These end fittings are approximately the length of one porcelain or glass disk causing that much shorter of a dry arcing distance, which is necessary for the electrical ratings of the insulator. MPS designed the "Bell Equivalent" to overcome this length obstacle by molding the silicone housing over the end fittings, leaving just the socket and ball exposed for the connection to the conductor hardware and tower. By molding over the metal end fittings, the polymer insulator now has the same electrical properties and length as its porcelain counterpart.

Some of the benefits of using MacLean Power Systems' Bell Equivalent insulators over porcelain or glass insulators include:

- Installation right out of the box – eliminates the assembly of the individual bells of a porcelain string
- Silicone housing has 20% more leakage distance – superior performance in contaminated environment
- Corrosion resistant E-glass core – eliminates concern of brittle fracture failure
- Higher mechanical strength – 25k SML v. 15k SML

Features

- 4, 5, & 6 Bell equivalents
- High strength 25k SML
- Silicone housing
- 20% higher leakage than porcelain
- Corrosion Resistant E-Glass
- ANSI 52-5 socket & ball end fittings
- 82% lighter weight compared to porcelain

Benefits

- Direct length replacement for bells
- 15k SML for bells
- Hydrophobicity / encapsulation
- Superior performance for contamination
- Eliminates brittle fracture concerns
- Fits standard socket / ball hardware
- Lower installation labor

Catalog Number	# Bells	Section Length		Leakage Distance		Dry Arcing Distance		Dry kV	Wet kV	CIFO+ kV	CIFO- kV	Weight lbs
		in	mm	in	mm	in	mm					
S178023BE04	4	23.0	584	55.1	1400	24.0	610	255	190	420	435	5.6
S178029BE05	5	28.7	730	69.4	1763	29.8	756	315	245	500	510	6.3
S178035BE06	6	34.5	876	84.0	2134	35.4	900	375	305	580	310	7.3

Notes:

- 1) BE Series = ideal for maintenance
- 2) Standard Package Quantity = 6 pcs [skid quantity available]
- 3) To order Bell Equivalent Insulators, contact you local MPS sales representative.