

# IBEC BPL Products

## SBZ-01 Coupler



IBEC's unique Broadband over Power Line SBZ-01 coupler is the most cost effective solution in the BPL industry. Produced exclusively for IBEC by Cooper Power Systems®, the SBZ-01 coupler couples the signal onto the medium voltage line and acts as a lightning arrester, providing extra protection to the electric grid. Together with IBEC's BPL Headends, Regenerator Units, Customer Access Units and Modems, the SBZ-01 completes the most cost effective BPL system available on the market today.

### Headquarters

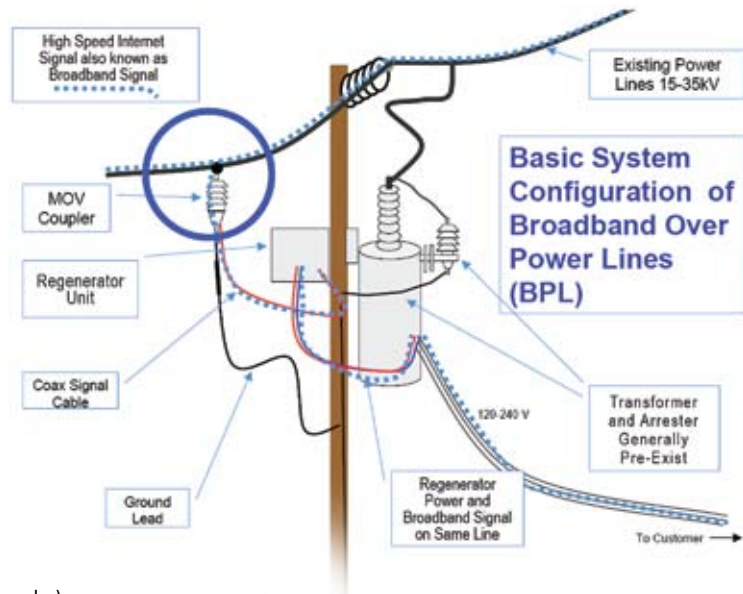
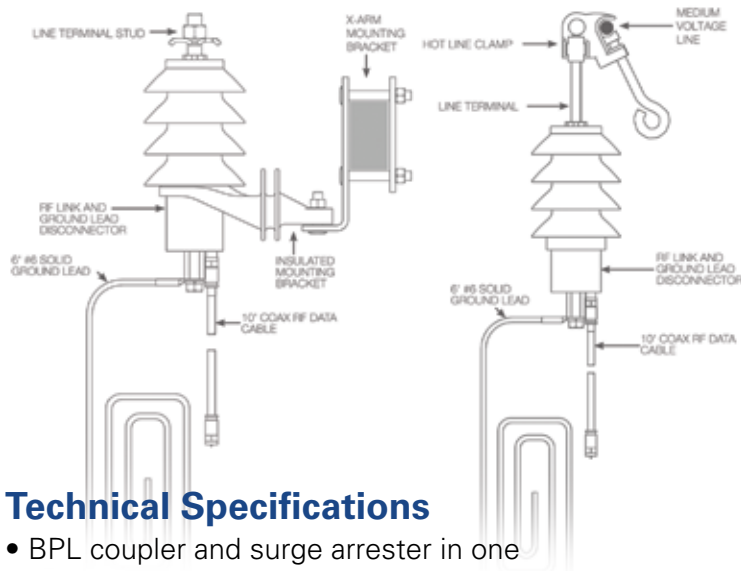
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**Empowering**  
**the World's Broadband®**





## Technical Specifications

- BPL coupler and surge arrester in one
- Input impedance: 50-75 Ohms unbalanced coax (F-type female)
- Ground lead/coax isolator
- Certified to IEEE C62.11 and IEC 60099-4
- Compliant with draft IEEE P1675
- 48 - 62 Hz power line certified

## Surge tested as follows

- 20 current surges of 10 kA crest, 8/20  $\mu$ s waveshape followed by
- 2 current surges of 40 kA crest, 8/20  $\mu$ s waveshape
- 2 current surges of 100kA crest, 4/10  $\mu$ s waveshape
- 20 current surges of 250 A crest 2000  $\mu$ s duration rectangular wave

## Dimensions

### 10kV

13 in x 2 in

Weight: 2.2 Kg, 4.8 lbs

### 18kV

16 in x 2 in

Weight: 2.8 Kg, 6.2 lbs

## Housing Insulation Withstand Ratings

### 10kV

89 kV Impulse (1.2/50  $\mu$ s)

55 kV Dry (1 Min)

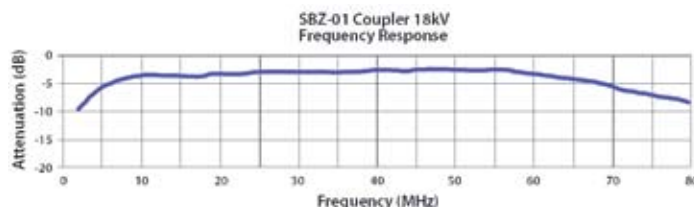
44 kV Wet (10 Sec)

### 18kV

126 kV Impulse (1.2/50  $\mu$ s)

82 kV Dry (1 Min)

67 kV Wet (10 Sec)



### Front-of-wave Protective

### Maximum Discharge Voltage (kV crest) 8/20 $\mu$ s Current Wave

Rating (kV rms)	MCOV (kV rms)	Level* (Kv crest)	1.5kA	3kA	5kA	10kA	20kA	40kA
10	8.4	37	28	29	30	34	38	43
18	15.3	69	53	55	57	64	70	77



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This product has been tested and FCC-certified for use in the United States with the IBEC BRU, IBEC CAU, Kaicom 2140, Kaicom 2210, Kaicom 2220E, and Kaicom 2230. FCC certification must be obtained before using this product in the United States with any other equipment. U.S. patents 5,864,284 / 6,040,759. U.S. and Foreign patents pending.