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# Chapter 1

## Suspension Insulator Definition

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1.5 IEC disc suspension insulator

**By Orient Power**

# IEC disc suspension insulator



IEC disc suspension insulator usually means the ceramic suspension insulator.

IEC disc suspension insulator is an assembly of one or more shells with metallic fittings.

Disc suspension insulator is nonrigid supporting type because of their connection of fitting.

Metallic fittings for IEC suspension insulator:

- ✧ Socket and ball
- ✧ Clevis and tongue

The left picture can show you this two types.

This structure enables them form the insulator string by fitting into themselves one another as per voltage requirement.

**Main type of IEC disc suspension insulator:**

- ✧ U70BS U70BL U70C
- ✧ U100BL U120B U160BS
- ✧ U210B U300B U530B
- ✧ XHP-70 XHP-120 (this is for China name)

**The meaning of the model type:**

For example, U70BL, “U” means a cap and pin insulator, “70” is the mechanical failing load, “B” is the ball and socket type insulator, “L” is long spacing.

So we can judge some parameters through the disc suspension insulator name.

IEC disc suspension insulator is according to the IEC60383, Orient power can also provide the design as per customer's requirements.



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