



Ingress Protection

What does IP mean?

- IP is an abbreviation of the classification system for Ingress Protection.

Why do we give equipment an IP rating?

- The ingress of liquids or solid particles into electrical enclosures may not only be harmful to the equipment but could also be dangerous to the person operating the equipment.

Why does the IP Code have two numbers?

- Each number signifies the level of protection against ingress. The first number refers to ingress of solid foreign objects, and the second against the ingress of water.

What is the applicable European Standard?

- BS EN 60529:1992 Incorporating Amendments Nos. 1 and 2 is the applicable standard for Degrees of protection provided by enclosures. This standard applies to electrical equipment with a rated voltage not exceeding 72.5kV.

PLEASE SEE TABLE BELOW FOR CODE LETTERS...

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Code Letters	IP	Protection	Access
First Characteristic Numeral	<p>0 (non-protected)</p> <p>1 Protected against solid objects up to 50mm</p> <p>2 Protected against solid objects up to 12.5mm</p> <p>3 Protected against solid objects up to 2.5mm</p> <p>4 Protected against solid objects up to 1.0mm</p> <p>5 Dust-protected</p> <p>6 Totally dust tight</p>	Against ingress of solid foreign objects	<p>To hazardous parts with</p> <p>(non-protected)</p> <p>Back of hand</p> <p>Finger</p> <p>Tool</p> <p>Wire</p> <p>Wire</p> <p>Wire</p>
Second Characteristic Numeral	<p>0 (non-protected)</p> <p>1 Vertically dripping</p> <p>2 Dripping water up to 15° from vertical</p> <p>3 Spraying water up to 60° from vertical</p> <p>4 Splashing water from any direction</p> <p>5 Low pressure jetting from any direction</p> <p>6 Strong jets of water from any direction</p> <p>7 Temporary immersion in water</p> <p>8 Continuous immersion in water</p>	Against ingress of water with harmful effects	

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