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IP RATING

According to EN 60529 / IEC 60529

The protective systems are stated through a short-code sign, composing of the first two unchangeable indicating letters IP and two indexes for the protection degree i.e. IP 68 [6 = First Index 8 = Second Index]

First Index: Protection of ingress solids

Second Index: Protection of ingress liquids

Index	First Index		Second Index	
	Designation	Description	Designation	Description
X		Protection level not tested		Protection level not tested
0	No protection	No protection	No Protection	No Protection
1	Protection against large sized foreign bodies	Protection against penetration of solid foreign bodies with a diameter larger than 50min	Protection against dripping water falling vertically	Water drops falling vertically may not have any harmful consequences.
2	Protection against medium sized foreign bodies	Protection against contact of fingers with active or inner agitated particles. Protection against penetration of solid foreign bodies with a diameter larger than 12 mm.	Protection against dripping water falling diagonally	Water drops falling in any angle of 15° to the vertical line may not have any harmful consequences.
3	Protection against small sized foreign bodies	Protection against contact of active or inner agitated particles with tools, wires, etc. with a thickness of more than 2.5 mm. Protection against penetration of solid foreign bodies with a diameter larger than 2.5 mm.	Protection against spray water	Water falling in any angle up to 60° to the vertical line may not have any harmful consequences.
4	Protection against granulated foreign bodies	Protection against contact of active or inner agitated particles with tools, wires or similar with a thickness of more than 1 mm.	Protection against splashing water	Water splashing from all direction onto resources may not have any harmful consequences.
5	Protection against dust deposit	Complete protection against contact with current-carrying or inner agitated particles. Protection against harmful dust deposit.	Protection against water jets	A water jet from a nozzle directed onto resources from all directions may not have any harmful consequences
6	Protection against dust penetration	Complete protection against contact with current-carrying or inner agitated particles. Protection against penetration of dust.	Protection against inundation	In case of temporary inundation i.e. for heavy seas, water may not penetrate resources in harmful quantities
7	N/A	N/A	Protection at immersion	Water may not penetrate in harmful quantities when resources are immersed into water under the determine pressure and time conditions
8	N/A	N/A	Protection at submersion	Water may not penetrate in harmful quantities when resources are submerged under water (1.2 m water depth, 1 hour)
9K	N/A	N/A	Protection against high powered water jets	Water may not penetrate in harmful quantities from close-range, powerful, high-temperature water jets.