

Firstlight Guide to Useful explanation of IP Ratings for protection from Solid Objects, Dust & Water Ingress.



FIRST DIGIT

Protection against solid objects and dust

DIGIT	LEVEL OF PROTECTION
0	No protection
1	Objects larger than 50 mm
2	Objects larger than 12.5 mm
3	Objects larger than 2.5 mm
4	Objects larger than 1 mm
5	Dust protected
6	Dust tight



The IP code (Ingress Protection) identifies what level of protection against water and solid objects a fixture or device has. It is defined by the (IEC) under the international standard IEC 60529 and Zones are referenced in BS7671:2026 (Amendment 4) - Special Locations Part 7.

SECOND DIGIT

Protection against water ingress

DIGIT	LEVEL OF PROTECTION
0	No protection
1	Vertically dripping water
2	Drips when tilted up to 15°
3	Water spray up to 60°
4	Water splashing from any direction
5	Water jets
6	Powerful water jets
7	Temporary immersion up to 1 m
8	Continuous immersion
9	High-pressure, high-temperature jets

IP20 INDOOR DRY AREAS No moisture protection	IP44 BATHROOM / OUTDOOR Splash resistant	IP65 OUTDOOR LIGHTING Dust tight; water jets	IP67 ZONE 0 & GROUND LIGHTS Temporary immersion	IP68 UNDERWATER Continuous immersion
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NOTE: This guide is for general information only. Always confirm the required IP rating for the intended location and installation conditions.

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