

IP65-69K DEFINITIONS, APPLICATIONS AND PRODUCT EXAMPLES



| | QUICK REFERENCE | DEFINITION | APPLICATIONS | PRODUCTS |
|--------------------------------|---|---|---|--|
| IP65 SPLASH | The minimum rating required for harsh environments. | Protection against the effects of dust and jet water by a nozzle (6.3 mm) from all directions. | <ul style="list-style-type: none">• Outdoor/indoor• Wash-down processes• Hygiene/sanitation processes• Marine applications• Indoor/outdoor lighting• Meters & gauges for industrial, marine, etc. | <ul style="list-style-type: none">• Electric stepper motors• Light fixtures• Industrial monitors• Outdoor sensors/motion control• Medical PCs• Outdoor keypads• Balances and scales |
| IP66 POWERFUL WATER JETS | The minimum rating required for complete protection against dust. | Protection against the effects of dust and powerful jet water (12.5 mm nozzle) from any direction. | <ul style="list-style-type: none">• Outdoor/indoor• Consumer electronics• Construction sites• Industrial touchscreens• Mining applications• Industrial technology• Applications involving heavy seas | <ul style="list-style-type: none">• Weatherproof cameras• Electrical enclosures• Connectors/cables/adapters• LED lighting• Actuators• Panel-mount keyboards |
| IP67 IMMERSION UP TO 1M | The most standard rating. Represents much of iCONN's inventory. | Protection against the effects of dust and temporary immersion in water between 15 cm and 1 m for 30 minutes. | <ul style="list-style-type: none">• Outdoor, indoor• For applications involving falling dirt, hose-directed water, the formation of external ice, etc.• Industrial manufacturing lighting• Rugged consumer electronics• Outdoor electronics and antennas• Digital industrial tools | <ul style="list-style-type: none">• iPhone 7• Weatherproof cameras• Industrial LED high bay light fixtures• PC-based industrial computer systems• Sensors• Cables/connectors/adapters• Machine lighting• Amplifiers and splitters• Digital caliper |
| IP68 IMMERSION BEYOND 1M | For extreme applications that require routine and prolonged ingress protection. | Protection against the effects of dust and continuous immersion in water and under pressure for long periods of time. | <ul style="list-style-type: none">• Outdoor, indoor• Military field equipment• Automotive production• Machine building• Shipping and marine applications• Aero and space equipment | <ul style="list-style-type: none">• iCables/connectors/adapters• Submersible electrical enclosures• Waterproof enclosures• Fans and blowers• Waterproof Micro USB Connector• Wearable fitness electronics |
| IP69K | For specialized applications involving the most extreme environments and high-pressure exposure to water. | Protection against the effects of dust, continuous immersion in water and under pressure for prolonged periods of time, and high-pressure wash downs from all directions. | <ul style="list-style-type: none">• Outdoor, indoor• Applications involving routine power washing• Car washes• Food service (e.g., meat/dairy processing)• Automotive production• Industrial devices• Military field equipment• Aero and space equipment | <ul style="list-style-type: none">• Waterproof/outdoor• PCs/monitors• Panel switches• Pilot devices• Cables/connectors/adapters• Control, buttons & indicator lights• Food-Grade motors |

TO LEARN MORE ABOUT IP RATINGS AND
WHAT WILL WORK BEST FOR YOUR NEXT PROJECT

CONTACT US FOR A FREE ENGINEERING ANALYSIS. 