

IP RATINGS

Value	First Digit	Second Digit	Third Digit
	Protection against ingress of solids	Protection against ingress of liquids	Protection against mechanical impact damage
0	No protection	No protection	No protection
1	Protected against solid objects over 50mm e.g. hands, large tools.	Protected against vertically falling drops of water.	Protected against 0.225 joule impact (150g @ 15cm).
2	Protected against solid objects over 12mm e.g. hands, large tools.	Protected against direct sprays of water up to 15° from vertical.	Protected against 0.375 joule impact (250g @ 15cm).
3	Protected against solid objects over 2.5mm e.g. wire, small tools.	Protected against direct sprays of water up to 60° from vertical.	Protected against 0.5 joule impact (250g @ 20cm).
4	Protected against solid objects over 1.0mm e.g. wires.	Protected against water sprayed from any direction. Limited ingress permitted.	
5	Limited protection against dust ingress (no harmful deposit)	Protected against low pressure water jets from any direction. Limited ingress permitted.	Protected against 2.0 joule impact (500g @ 40cm).
6	Totally protected against dust ingress.	Protected against high pressure water jets from any direction. Limited ingress permitted.	
7		Protected against immersion between 15cm and 1M.	Protected against 6.0 joule impact (1.5Kg @ 40cm).
8		Protected against long periods of immersion under pressure.	
9			Protected against 20 joule impact (5Kg @ 40cm).