Ingress Protection (IP) Rating Guide

Waterproof Definition

Unmated Waterproof

Standalone waterproof or waterproof is assured even without its counterpart. The water will not go through the inner portion of the exposed connector as it is entirely sealed.
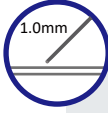
Mated Waterproof

Waterproof is only assured when mated and locked tightly to its counterpart.
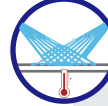
1st Digit - SOLIDS
Degree of protection against solid objects

	No Protection	**0**
	Protected against a solid object greater than 50mm, such as a hand.	**1**
	Protected against a solid object greater than 12.5mm, such as a finger.	**2**
2.5mm	Protected against a solid object greater than 2.5mm, such as a wire.	**3**
1.0mm	Protected against a solid object greater than 1.0mm, such as a thin strap.	**4**
	Dust Protected. Prevents ingress of dust sufficient to cause harm.	**5**
	Dust tight. No ingress of dust.	**6**

Example:

+

IP 6 5

Protected against water jets from any angle.

Dust tight. No ingress of dust.

2nd Digit - LIQUIDS
Degree of protection against water

	No Protection	**0**
	Protected against water drops.	**1**
	Protected against water drops at a 15 degree angle.	**2**
	Protected against water spray at a 60 degree angle.	**3**
	Protected against water splashing from any angle.	**4**
	Protected against water jets from any angle.	**5**
	Protected against powerful water jets and heavy seas.	**6**
	Protected against the effects of temporary submersion in water (30 minutes at 3 feet).	**7**
	Protected against the effects of permanent submersion in water (up to 13 feet).	**8**
	Protection against close range, powerful and high temperature water jets.	**9K**