



# Sealing

Connectors are often used in weather-exposed application against climate condition like base station, in which the watertight sealing in connectors is required.

The connectors for cables are typically sealed with clamping components that is mentioned in the chapter of "connector termination". About the receptacles, there are three sealing manners.

## Interface sealing

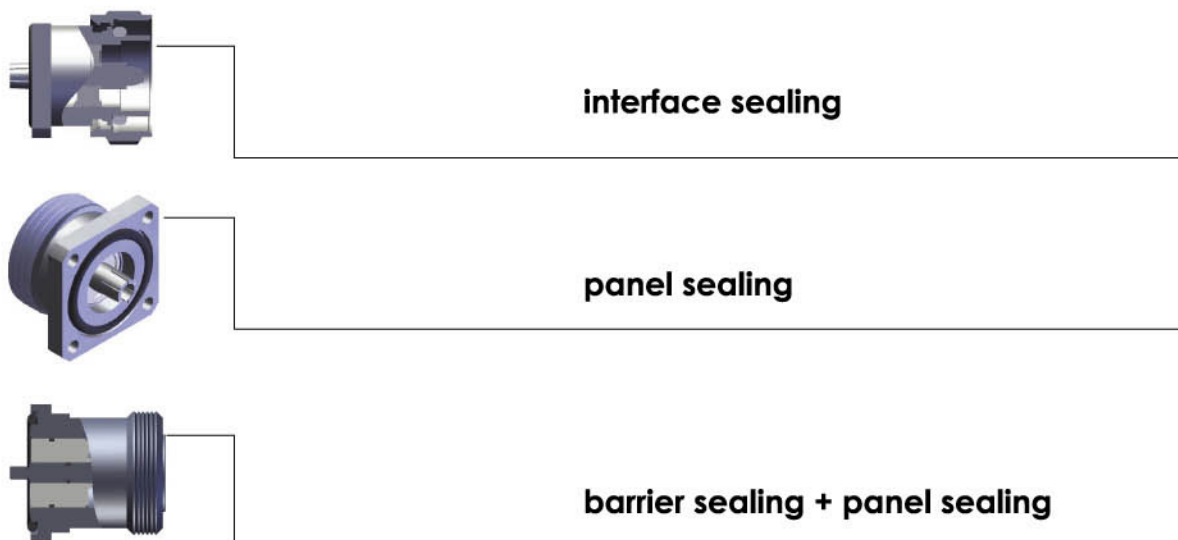
By a gasket, normally in the plug connector, the interface sealing prevent the passage of water or moisture into or out of the connecting interface of connector pair in mated condition. It is also called mated sealing.

## Panel sealing

Panel sealing use a o-ring in the flange to prevent the passage of water or moisture through the gap between the mounting hole of the panel and the connector body of the used connector. It together with interface sealing achieves a transversal sealing.

## Barrier sealing

The barrier sealing is achieved by two silicone o-rings fixed into connector, that prevent the passage of water or moisture through the gap between insulator and inner conductor or outer conductor of a connector. It is also named unmated sealing which achieves a longitudinal sealing.



# General Information

## IP ratings

The IP rating, according to IEC 60529, is for classifying the degree of protection from dust and water by electrical equipment and enclosures. Zeeteq provides numerous products that meet the IP68.

IP X Y			
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protection against solid objects		protection against liquids	
<b>0</b>	no protection	<b>0</b>	no protection
<b>1</b>	protection against solid objects over 50mm, e.g. accidental touch by hands	<b>1</b>	protection against vertically falling drops of water
<b>2</b>	protection against solid objects over 12mm, e.g. fingers	<b>2</b>	protection against direct sprays of water up to 15° from the vertical
<b>3</b>	protection against solid objects over 2.5mm e.g. tools or wires	<b>3</b>	protection against sprays to 60° from the vertical
<b>4</b>	protection against solid objects over 1mm, e.g. small wires	<b>4</b>	protection against water sprayed from all directions-limited ingress permitted
<b>5</b>	protection against dust (limited ingress (no harmful deposit))	<b>5</b>	protection against low pressure jets of water from all directions - limited ingress permitted
<b>6</b>	totally protection against dust	<b>6</b>	projection against strong jets of water, e.g. for use on ship decks - limited ingress permitted
		<b>7</b>	protection against the effects of immersion between 15cm and 1m
		<b>8</b>	projection against long periods of immersion under pressure