

Water Resistant Cables: References for types and classifications

AD1 PROTECTION: Negligible The probability of water is negligible

AD1
Negligible



Location in which the walls do not generally show traces of water, but can appear in small periods, for example, in the form of steam and where good ventilation dries quickly.
Wiring Regs Location reference: IPX0

AD2 PROTECTION: Drops Possibility of vertical drops of water falling

AD2
Drops



Location in which water vapour occasionally condenses as water drops or when steam may occasionally be present.
Wiring Regs Location reference: IPX1 or IPX2

AD3 PROTECTION: Spray Possibility of water droplets falling at an angle of more than 60° to the vertical

AD3
Spray



Location in which sprayed water appears as a continuous film on the walls and/or floors.
Wiring Regs Location reference: IPX3

AD4 PROTECTION: Splashes Possibility of splashes from any direction

AD4
Splashes



Location where the equipment may be subject to splashed water; applies to certain luminaires and construction site equipment.
Wiring Regs Location reference: IPX4

AD5 PROTECTION: Jets Possibility of water jets in any direction

AD5
Jets



Locations where hose water is regularly used such as car washes and patios.
Wiring Regs Location reference: IPX5

AD6 PROTECTION: Waves Possibility of water waves

AD6
Waves



Seashore locations such as piers, beaches and quays
Wiring Regs Location reference: IPX6

AD7 PROTECTION: Immersion Possibility of intermittent, partial or total flooding by water

AD7
Immersion



Locations susceptible to flooding and/or equipment is immersed. The water can reach up to 150mm above the highest point of the equipment, with the lowest part not more than one metre below the surface of the water.
Wiring Regs Location reference: IPX7

AD8 PROTECTION: Submersion Possibility of permanent and total water flooding

AD8
Submersion



Locations such as swimming pools where the electrical equipment is permanently totally covered with water.
Wiring Regs Location reference: IPX8