

Performance Comparison of Waterproof Junction Box G 655 and Delay Type



Article Overview

Waterproof junction boxes like G.655 and delay type differ primarily in sealing, material durability, and environmental protection, with G.655 typically offering higher IP-rated water and dust resistance.

Key Performance Metrics

Ingress Protection (IP Rating): G.655 boxes are generally designed for IP66 or higher, meaning they are dust-tight and can withstand powerful water jets, making them suitable for outdoor and industrial environments. Delay type boxes may have lower IP ratings, such as IP54 or IP55, providing basic protection against splashes and dust but less resistance to immersion or high-pressure water . **Material and Durability:** G.655 boxes often use high-quality thermoplastics like polycarbonate or ABS, or metals like stainless steel, offering superior impact resistance, UV stability, and corrosion resistance. Delay type boxes may use lighter plastics with lower impact tolerance, which can be sufficient for indoor or less demanding applications . **Sealing and Gasket Integrity:** G.655 enclosures typically feature silicone or high-grade rubber gaskets with precise compression, ensuring minimal water ingress even under temperature fluctuations. Delay type boxes may rely on simpler sealing methods, which can be more prone to leakage over time, especially in outdoor or high-humidity conditions . **Temperature and Environmental Resistance:** G.655 boxes are rated for -40°C to +80°C, maintaining structural integrity in extreme climates. Delay type boxes may have narrower temperature ranges, limiting their use in harsh outdoor environments . **Installation and Cable Entry:** G.655 boxes often include pre-molded cable entry poin...

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Table 1, "G.655.C Attributes", retains the original "box-type" specification for the dispersion coefficient, which allows a reference to

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