

Application Scope

Kymata provides an advanced solution for indoor and outdoor radio coverage in large logistical and industrial environments. The Kymata antennas and amplifiers address signal issues effectively and economically, ensuring superior performance. The intuitive web interface and SNMP management offer comprehensive control over industrial wireless networks.

IPDEXAB Antenna Barrier

The IPDEXAB is a coaxial adapter designed to ensure safe and reliable wireless connectivity in industrial and hazardous environments. By providing intrinsic safety for High Frequency (HF) outputs, the IPDEXAB enables the use of standard antennas in Ex zones, eliminating the need for expensive specialized equipment. Certified for ATEX and IECEx standards, it limits ignition energy in fault conditions and supports installations in Ex zones 0, 1, and 2. With a compact design and universal frequency coverage (0.3–6 GHz), the IPDEXAB offers a cost-effective and versatile solution for environments with strict safety requirements

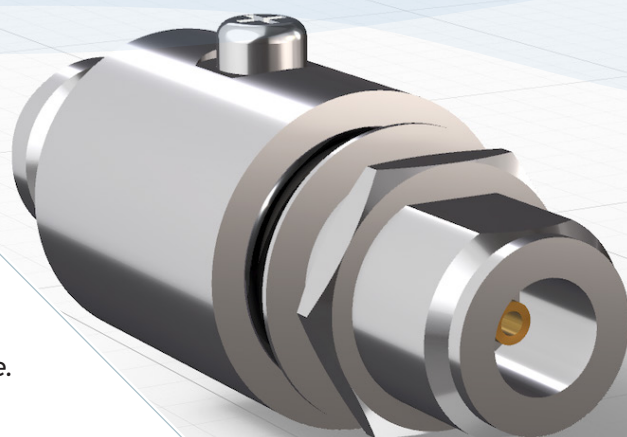


Key Features

- **Intrinsic Safety Certification**
Certified for ATEX and IECEx standards, ensuring compliance with safety requirements in hazardous areas, including zones 0, 1, and 2.
- **Universal Frequency Range**
Covers a wide frequency range of 0.3–6 GHz, supporting diverse wireless applications and compatibility with Kymata antennas.
- **Compact and Robust Design**
Features a compact housing with IP65 protection, offering durability in industrial and outdoor environments.
- **International Approvals**
Globally certified for use in hazardous environments, ensuring compliance with regional safety standards worldwide.

Benefits

- **Enhanced Safety**
Limits ignition energy, ensuring reliable wireless operations in hazardous environments.
- **Simplified Installations**
Supports easy integration with existing setups, reducing deployment complexity and time.
- **High Versatility**
Enables compatibility with a broad range of wireless applications due to its wide frequency coverage.



Technical Specifications

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|-----------------------------------|--|
| Impedance Type | 50 Ω |
| Working Frequency | 0.3~6.0 GHz |
| Test Voltage | 2.1 kV AC (50 Hz, 2 s) |
| Insulation Voltage (Input/Output) | 265 V AC/DC, 375 V (Peak) |
| Maximum Error Voltage (Um) | 253 V AC/DC |
| Insertion Loss | Negligible |
| Input Power (Pi) | ≤ 2 W (33 dBm, IIC) ≤ 3.5 W (35.4 dBm, IIB) ≤ 6 W (37.7 dBm, I, IIA, III) |
| Internal Capacitance (Ci) | 5.64 pF |
| Internal Inductance (Li) | Negligible |
| Output Power (Po) | Matches HF output power of the wireless module |
| Connector Type | 2 x N female |
| Degree of Protection | IP65 |
| Operating Temperature | -40 °C to 75 °C |
| Storage Temperature | -40 °C to 85 °C |
| Dimensions | Height: 67 mm Diameter: 25 mm |
| Material (Housing) | Brass, nickel-plated |
| Certifications | ATEX: Certified for zones 0, 1, 2. IECEX: Certified for global use. |
| Supported Antenna Models | ANT2L, ANT2C, ANT5L, ANT5C, ANT5MM, ANT5AW Series |

