

Powertec Coaxial Surge Protectors — DC to 3 GHz



Product Overview

Powertec offers robust coaxial surge protectors designed to protect RF equipment from transient surges while maintaining signal integrity across the DC to 3 GHz range. Two configurations are available: N Female to N Female and N Female to N Male.

Product Specifications

Feature	N Female → N Female	N Female → N Male
SKU	ACC-BH-00002	ACC-BH-00005
MPN	PCM-SP-DC3.N2N2	PCM-SP-DC3.N2N1
Frequency Range	0–3000 MHz	0–3000 MHz
VSWR	≤1.2	≤1.2
Impedance	50 Ω	50 Ω
Insertion Loss	<0.3 dB	<0.3 dB
Nominal DC Spark-over	230 ±20% V	230 ±20% V

Feature	N Female → N Female	N Female → N Male
Max Impulse	650 V	650 V
Spark-over		
Impulse Discharge Current	20 kA (8/20 µs) / 100 A (10/1000 µs)	20 kA (8/20 µs) / 100 A (10/1000 µs)
Mechanical Durability	≥500 cycles	≥500 cycles
Connectors	N Female Bulkhead → N Female	N Female Bulkhead → N Male
Ground Connection	Feed-through / Screw Terminal	Feed-through / Screw Terminal
Body / Pins	Nickel-plated brass / Gold-plated brass	Nickel-plated brass / Gold-plated brass
Ingress Protection	IP67	IP67
Operating Temperature	–55 °C to +155 °C	–55 °C to +155 °C

Mechanical Dimensions

Illustrative schematics based on connector type and overall dimensions matching Powertec style.

N Female → N Female: - Length: 65 mm - Diameter: 25 mm

N Female → N Male: - Length: 60 mm - Diameter: 25 mm

Features

- Wideband DC to 3 GHz coverage
- High surge protection rating
- IP67 for outdoor and industrial applications
- Low insertion loss and excellent VSWR
- Durable nickel-plated brass body with gold-plated pins
- Easy ground connection via feed-through or screw terminal