



Coupling Network

CN 405AF4

- IEC/EN 61000-4-5
- GB/T 17626.5
- TB/T 3498

Features

- > Max. pulse voltage 10 kV
- > Support EMC generators of all brands, quick connection without extra adaptation
- > All ports adopt 4 mm banana ports
- > Coupling Waveforms are 1.2/50 μ s, 8/20 μ s; 10/700, 5/320 μ s, 4/300 μ s
- > Unshielded 1/2/3/4-line; Line-to-Line / Line-to-Ground

Introduction

The CN 405AF4 complies with IEC/EN 61000-4-5 and TB/T 3498. It is a professional CN developed for lightning surge immunity tests on railway power supply ports. It supports line-to-ground and line-to-line tests, with a max. pulse voltage of 10 kV. Suitable for line-to-ground and line-to-line tests on balanced communication transmission lines. It also supports line-to-ground and line-to-line tests for unbalanced communication transmission lines. Compact, portable and easy to operate.

Application Areas



Technical Parameters

Coupling Waveform	Combined wave: 1.2/50 μ s, 8/20 μ s Combined wave: 10/700 μ s, 5/320 μ s Voltage wave: 4/300 μ s
Pulse Voltage	Max. 10 kV
Coupling Module	CD-GDT90, CD-TVS76, CD-C05
Coupling Method	Unshielded 1/2/3/4-line; Line-to-Line / Line-to-Ground
Communication Interface Specifications	4 mm banana plug
Working Voltage	Max. injection voltage of TVS 76 element: DC < 48 V Max. injection voltage of GDT 90 element: DC < 12 V Max. injection voltage of C05 element: AC 380 V

General Parameters

Weight	Approx. 3.5 kg
Dimension	358 mm (L)*220 mm (W)*133 mm (H)
Enclosure Material	Aluminum alloy
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Package	Carton

Standard Accessories

Test Cable, User Manual, High Voltage Injection Cables, Coupling Module

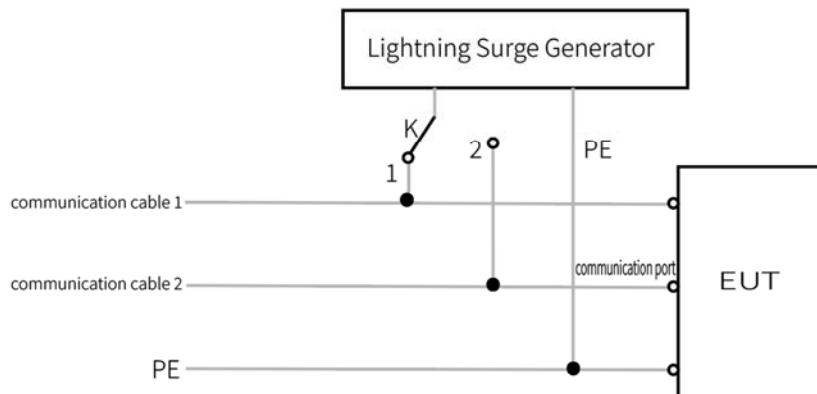
Optional Accessories

1	Coupling Module	Model: CD-GDT90 Clamping Voltage: DC 90 V	
2	Coupling Module	Model: CD-TVS76 Clamping Voltage: DC 76 V	
3	Coupling Module	Model: CD-C05 Capacitance: 0.5 μ F Rated Voltage: DC 1,000 V	

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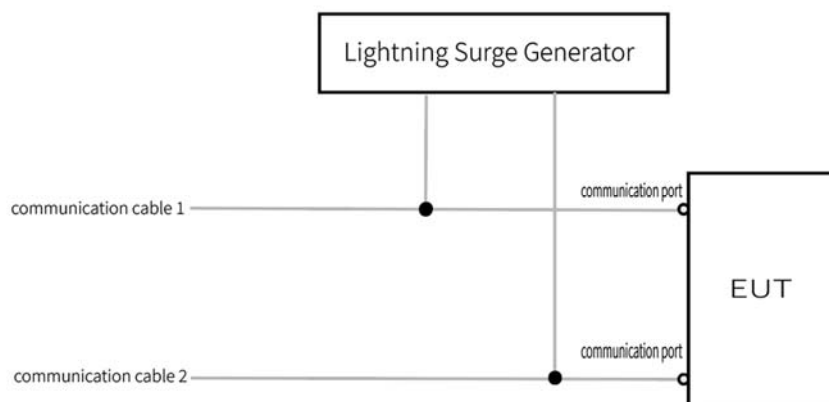
Standard connection

Schematic



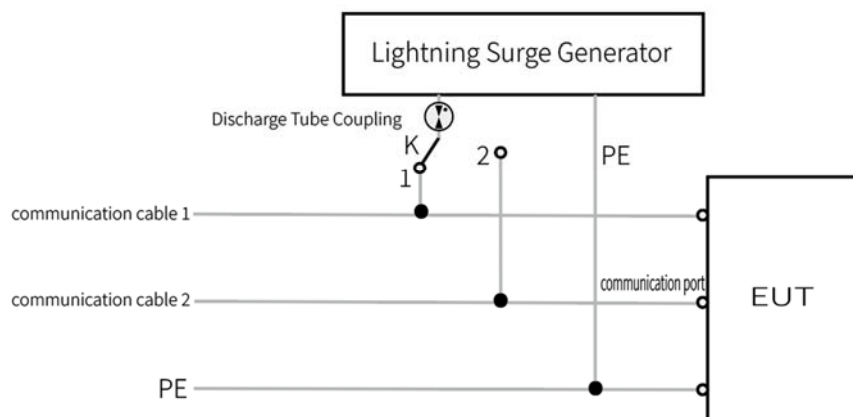
Description: In the line-to-ground test, the shock wave is applied between the communication line and the ground wire respectively

Figure 15 Balance Communication Transmission Line line-to-ground lightning test circuit diagram (direct coupling)



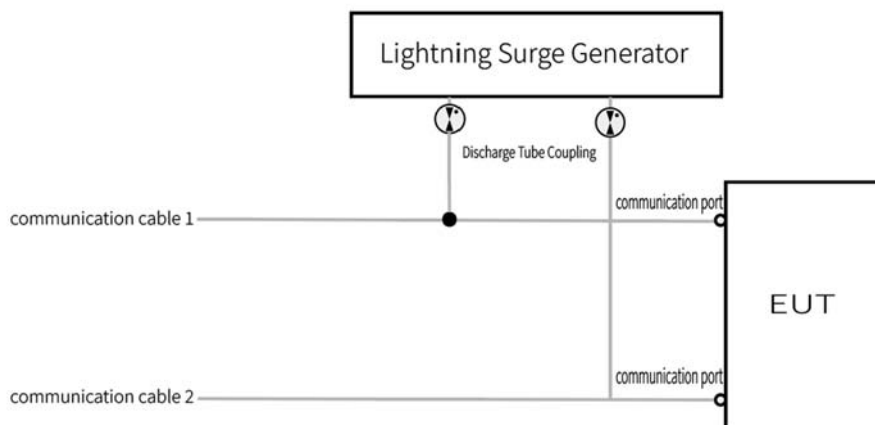
Description: In the line-to-line test, the shock wave is applied between two lines of balanced communication line

Figure 16 Balance Communication Transmission Line line-to-line lightning test circuit diagram (direct coupling)

TB/T 3498
Standard connection
Schematic


Description: In the line-to-ground test, the shock wave is applied between the communication line and the ground wire respectively

Figure 17 Balance Communication Transmission Line line-to-ground lightning test circuit diagram (discharge tube coupling)



Description: In the line-to-line test, the shock wave is applied between two lines of balanced communication line

Figure 18 Balance Communication Transmission Line line-to-line lightning test circuit diagram (discharge tube coupling)

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