CQC TEST SUMMARY

400A Rhino Plug Five-Color Set

Single-Pole High-Current Connector | English Summary for Website Download

Document Scope

This document is an English summary prepared from the original CQC test report for quick product review. It is not a replacement for the original Chinese CQC report or certificate, and it does not expand the scope of the original test report.

1. Source Report Information

Original report type	CQC Mark Certification Test Report / Safety Type Test Report
Report No.	CQC2025-3473
Application No.	V2025CQC003020-1380936
Product name	Electrical connector
Main tested sample	SF400A-GT-L1 + SF400A-MT-L1, 400A, 1000V AC, IP67
Test standard	GB/T 34989-2017 - Connectors - Safety requirements and tests
Test organization	Vkan Certification & Testing Co., Ltd. (威凯检测技术有限公司)
Sample received date	2025-09-16
Report issue date	2026-02-04
Test conclusion	Passed / Qualified

2. Product Coverage Summary

The report covers 400A, 1000V AC, IP67 single-pole connector combinations in five line colors. The connector combinations include free-end connector and fixed/panel connector configurations with threaded clamp and/or bolt connection methods.

Line	Color	Function
L1	Brown	Phase connector
L2	Black	Phase connector
L3	Grey	Phase connector
N	Blue	Neutral connector
PE	Green	Protective earth connector

3. Key Technical Data

Connector type	Single-pole high-current electrical connector
Rated current	400A
Rated voltage	1000V AC
Rated impulse voltage	8 kV
IP rating	IP67
IP test reference	GB/T 4208-2017
Pollution degree	3
Operating temperature	-25°C to +85°C
Conductor size	240 mm2
Cable clamp range	22-32 mm for free-end connector
Operation cycles	500 no-load operation cycles
Breaking capacity	No load-breaking capacity / no hot-plugging
Interlock	Without interlock
Connection method	Threaded clamp and/or bolt connection according to connector side

4. Material and Safety Test Summary

Housing / plastic parts	Nylon PA6
Main contact parts	H59 brass with tin plating, 2-3 microns
Sealing rings	Silicone rubber
Spring	304 stainless steel wire
Glow-wire test	850°C
Ball pressure test	125°C
Needle-flame test	30 seconds
Insulation material PTI	175V

5. Operation and Use Notes

- Disconnect power before plugging or unplugging. The connector is intended for connection and disconnection without load.
- This summary does not claim CE certification. CQC certificate/test documents can be provided for the 400A product set upon request.
- For project matching, buyers should confirm cable size, cable outer diameter, installation type and existing connector photos before quotation.

Full Report Availability

This is a public English summary for quick review. The full original CQC test report can be provided to qualified buyers upon request.