One company group a thousand opportunities. The philosophy of the Wieland Group with its headquarters in Bamberg, Germany can be summarized that simply. The independent global subsidiaries, Wieland Electric and STOCKO Contact make up the active core of Wieland Holding.

Wieland Electric offers a wide product portfolio in the fields of electrical engineering and electronics.

Wieland Electric is active in many areas of automation technology and is capable of creating new product innovation. Wieland Electric, with its modular system and custom product solutions is ideally positioned for the global marketplace.

In the building installation system sector, Wieland Electric is the world market leader in pluggable electrical installation. With good reason planners and architects of the tallest and most interesting construction projects worldwide, such as the Petronas Towers in Kuala Lumpur, rely on Wieland connectors to simplify their wiring requirements. Wieland is a pioneer on the path towards "intelligent home automation" with its gesis® line of products

Wieland Electric was founded in 1910 in Bamberg. With 1,350 staff members it is the largest subsidiary within the company group of Wieland Holding. With its numerous innovations, Wieland Electric has become a major supplier of electrical connection technology.

100 years young and full of innovative energy....

... this is the foundation of our company philosophy. Based on these motives Wieland Electric wants to face its social responsibility in the future. Eco-friendly high-tech products, manufactured according to state-of-the-art production standards, an audited environmental management system and extensive investments in our facilities with cutting-edge environmental technologies are a matter of fact. Our company policy commits us to the long term responsibility for the future of our families and children, as well as for the city of Bamberg, in addition to innovative system solutions for our customers.

wieland

Our subsidiaries

... and the addresses of our sales representatives, located worldwide, are available at:
www.wieland-electric.com

USA
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Fax +1-910-259 3691

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More information for ordering and downloading literature is available from our website.

www.wieland-electric.ca

Specifications are subject to technical modification.

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are
green.

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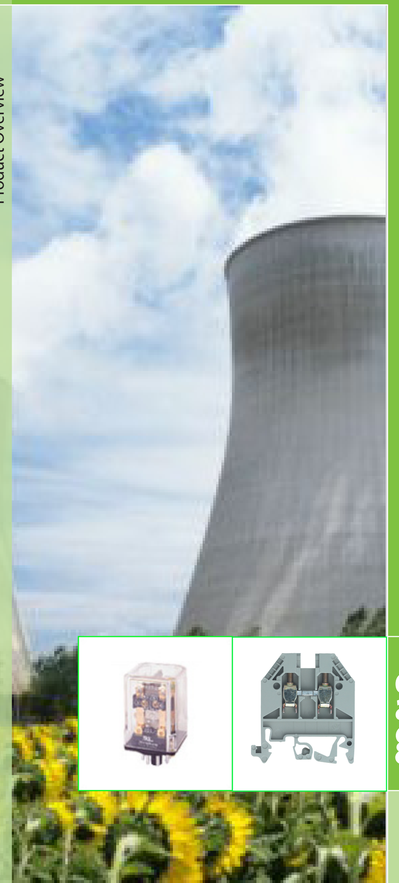
Product Overview



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Nuclear Qualified Products
Power Generation Stations

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Sales and Marketing
Center in Bamberg

Bamberg Headquarters

STOCKO Headquarters
in Wuppertal

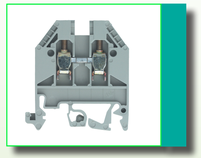
wieland group

automation
building
electronics

ACTIVE WORLDWIDE

With its staff of almost 2,000 employees, the Wieland Group is at home on all continents. Subsidiaries in Great Britain, France, Spain, Italy, Poland, Canada, the USA, China and Denmark speak for themselves. With a great number of sales agencies, Wieland Holding is active in almost all strategically important countries. We are a medium-size global player with a clear commitment to our world-wide customers and continued efforts to produce quality products in our German facilities.

Products and Solutions for Power Generation Stations



Terminal Blocks

Tested to AECL Specification 98-6800-TS-01 Rev.1 for Qinshan CANDU.
Project approved and signed off by AECL.
Thermally aged to simulate 40 years at 55°C.
Wires were installed both with and without ferrules.
Wire sizes ranged from 12AWG to 22AWG.
Thermal Ageing:
- **No observable damage to samples**
- **Markings on marking tags remained clearly legible**
- **Resistance through each circuit less than 1 ohm (5 ohm acceptable)**
- **Insulation resistance grater than 100 Mohm (10 Mohm acceptable)**

Seismic Testing:
- **Two 30 second tests exceeding 40g's at 2% damping**
- **No observable movement or damage to terminal blocks**
- **No voltage fluctuations or discontinuities observed**
- **No parts were shaken free and marking tags remained in place**
- **Resistance through each circuit less than 1 ohm (5 ohm acceptable)**
- **Insulation resistance greater than 100 Mohm (10 Mohm acceptable)**

Terminal Strips

Qualified for use in nuclear power plants in accordance with SECO Quality Assurance Program and in compliance with the requirements of IEEE 323-1983 (KEPIC END 1100-2000) and IEEE 344-1987 (KEPIC END 2000-2000)

	Inside Containment		HELB Area	
Condition	Normal	Accident	Normal	Accident
Qualified Life	30 Years	1 Year	30 Years	24 Hours
Tempature (Max)	120°F / 49°C	286°F / 141°C	120°F / 49°C	290°F / 143°C
Relative Humidity	Max 90%	Max. 100%	Max 90%	Max 100%
Pressure	Atmospheric	43 Psig	Atmospheric	3.8 Psig
Radiation (TID)	$1.2x10^5$ RAD	$4.9x10^7$ RAD	$2.6x10^5$ RAD	$2.0x10^5$ RAD
Seismic	IEEE C37.98-1987 Broadband Generic Spectra (10g peak and 4g ZPA)			

Limit Switches

Qualified for application of Kori, YoungGwang, UlChin, SinKori, and SinWolsung nuclear power plant in compliance with the requirements of IEEE Std 323-1974/1983/2003, IEEE Std 382-1985/1996 and IEE 344-1987/2004.

	Inside Containment	
Condition	Normal	Accident
Qualified Life	45.3 Years	1 Year
Tempature (Max)	130°F / 54°C	376°F / 191°C
Relative Humidity	Max 90%	Max. 100%
Pressure	Atmospheric	67.3 Psig
Radiation (TID)	$2.2x10^5$ RAD	$4.9x10^7$ RAD
Vibration	0.75 g, 5hz~ 100hz	
Seismic		15.0 g peak and 8.4 g ZPA
Chemical Spray		Boron solution 4400 ppm with 0.35 gpm/ft²

Cam Switches

Qualified for use in the following service conditions (Mild environment) of nuclear power plants in accordance with the SECO's Quality Assurance Program and in compliance with the requirements of IEEE 323-1983 and IEEE 344-1987

	Inside Containment
Condition	Normal
Qualified Life	40 Years
Tempature (Max)	130°F / 54°C
Relative Humidity	Max 90%
Pressure	Atmospheric
Radiation (TID)	$1.1x10^7$ RAD
Vibration	0.75 g, 5hz~ 100hz
Seismic	10 g peak and 4 g ZPA

Control Switches

Qualified for use in the following service conditions (mild environment) of nuclear power plants in accordance with the SECO's Quality Assurance Program and in compliance with the requirements of IEEE 323-1983 and IEEE 344-1987

	Inside Containment
Condition	Normal
Qualified Life	40 Years
Tempature (Max)	130°F / 54°C
Relative Humidity	Max 90%
Pressure	Atmospheric
Radiation (TID)	$1.1x10^5$ RAD
Seismic	10 g peak and 4 g ZPA

Control Modules

Qualified for use in the following service conditions (mild environment) of nuclear power plants in accordance with the SECO's Quality Assurance Program and in compliance with the requirements of IEEE 323-1983 and IEEE 344-1987

	Inside Containment
Condition	Normal
Qualified Life	41 Years
Tempature (Max)	104°F / 40°C
Relative Humidity	Max 90%
Pressure	Atmospheric
Radiation (TID)	$1.0x10^2$ RAD
Seismic	10 g peak and 4 g ZPA

Relays

Qualified for use in the following service conditions (mild environment) of nuclear power plants in accordance with the SECO's Quality Assurance Program and in compliance with the requirements of IEEE 323-1983 and IEEE 344-1987

Wieland is capable of supplying custom wiring configurations for the 8 and 11 pin octagonal relays for similar obsolete parts

	Inside Containment
Condition	Normal
Qualified Life	41 Years
Tempature (Max)	122°F / 50°C
Relative Humidity	Max 90%
Pressure	Atmospheric
Radiation (TID)	$1.0x10^6$ RAD
Seismic	10 g peak and 4 g ZPA

Fuse Holders

Qualified for use in the following service conditions (mild environment) of nuclear power plants in accordance with the SECO's Quality Assurance Program and in compliance with the requirements of IEEE 323-1983 and IEEE 344-1987

	Inside Containment
Condition	Normal
Qualified Life	40 Years
Tempature (Max)	130°F / 54°C
Relative Humidity	Max 90%
Pressure	Atmospheric
Radiation (TID)	$1.1x10^7$ RAD
Seismic	10 g peak and 4 g ZPA

Product Overview

Products and Solutions for Power Generation Stations

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