



KINECTRICS

a **BWXT** company

Export Cable Testing and Commissioning

Independent testing, diagnostics, and engineering expertise to support reliable cable system performance



Ensuring Cable Performance Since **Day One**.

Export cables are the critical connection between offshore generation and the transmission network, leaving no room for uncertainty when assets are brought online. Independent commissioning testing using standards compliant, time-proven test methodologies to verify system integrity and identify installation-related defects before they can affect reliability, performance, or project success.

Backed by 50+ years of experience, Kinectrics delivers independent testing, diagnostics, and engineering expertise for export cable projects worldwide, helping clients make informed decisions with confidence before energization.

Why Kinectrics?

> Full-Service Testing Capabilities

Integrated laboratory services for electrical, mechanical, and chemical analysis of cables and accessories.

> Global Industry Leadership

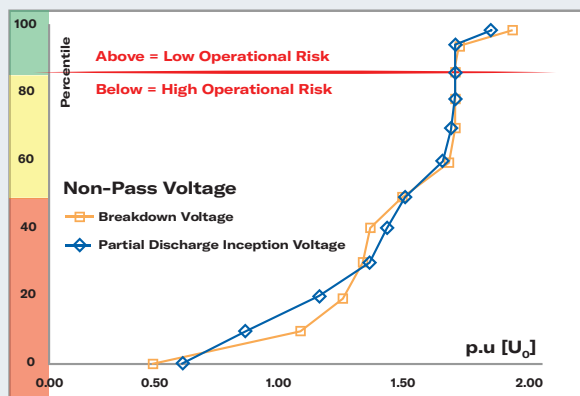
Trusted by utilities, developers, and industrial clients worldwide since 1912.

> Specialized Cable Services & Data-Driven Insights

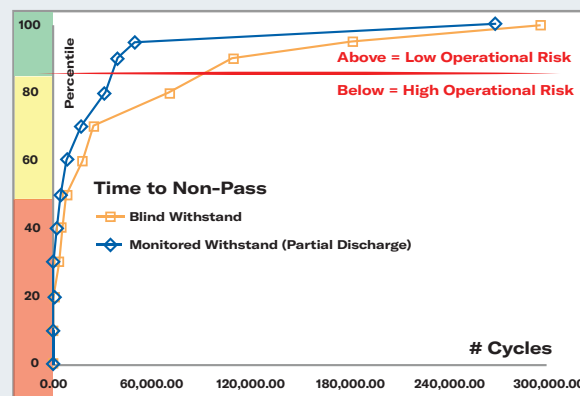
Decades of expertise in HV cable type testing, commissioning, condition assessment, and failure forensics to provide unique insight into the lifecycle management of export cable systems.

Examples of Real World Evidence

What is the **Required Level**?



What is the **Test Level**?



This data, based on 25 years of HV field testing experience, shows non-pass statistics for blind withstand and fully-monitored withstand commissioning tests globally. It clearly shows the need of a minimum 60 minutes of continuous AC withstand test voltage at test level $1.7U_0$ or higher. The data also shows the advantage of a fully monitored withstand test with partial discharge.

Testing Methods.

Preferred ↴

	Soak	NPF	VLF	DAC
Freq (Hz)	50~60	20~300	0.1*	20~300
IEC Approved	YES	YES	–	–
Find Defects	Med/Low	High	Low	Very Low
Test Duration	24h	60min	60min	50 Shots

*IEEE400.2, IEC60502

Export Cable Testing Services

Commissioning Testing

- End-to-end cable system acceptance testing
- Final acceptance testing before handover or energization
- Repeatable and reliable commissioning methodologies



Diagnostic Testing

- Monitored withstand testing
- Partial discharge monitoring and diagnostics
- Defect identification and assessment

Lifecycle Support

- Asset condition assessment testing
- Fault finding
- Root-cause failure analysis
- Failure forensics



Let's work together.

Contact our cable testing specialists to discuss your project requirements and develop a testing program tailored to your export cable system.

Powering innovative
and sustainable energy
solutions globally.

kinectrics.com

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 [@kinectrics](https://www.youtube.com/channel/UCk9t8v8v8v8v8v8v8v8v8v8)

Scan the QR Code

to learn more about our cable
testing solutions & capabilities



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