

TN Cable Diagnostic Consulting and Services

Our Focus

TN Cable Diagnostic Consulting and Services **supports with knowledge and experience to achieve the benefits of cable diagnostic and cable fault location systems**. Our **Consulting Service is offered in German and English language worldwide, independent** of any equipment manufacturer and offers three main segments.



1. Consulting packages and workshops

- a. Learn how to evaluate the complex cable diagnostic data
- b. Understand the relation between different diagnostic parameters
- c. Define a customized evaluation matrix for diagnostic results with categorization of the cables and a clear action plan that fits your underground cable network.

👉 **Request your customized workshop to strengthen the reliability of your network.**

2. Application support

We help you choose the right technology - **independently and based on your network requirements**.

a. Cable diagnostic application

How do I choose the right cable diagnostic system for my cable network?

- 🕒 What areas of application and voltage levels do I want to cover?
 - Acceptance test (quality check on new installations)
 - Maintenance test (after cable repair or partial replacement)
 - Condition assessment
- 🕒 Performance (which cable lengths need to be covered)
- 🕒 Portability, operating environment (portable system, cable test van)
- 🕒 What standards are there and should be followed?
- 👉 Get an **independent, tailor-made recommendation** for your network.

b. Cable fault location application

How do I choose the right cable fault location system for my cable network?

- 🕒 The selection depends on the area of application
 - Control cables / pilot cables
 - Low voltage cable network
 - Medium voltage cable network
 - High voltage cable network
- 🕒 Portability, operating environment, budget (portable system, cable test van)
- 🕒 Which measurement methods are required and must be included in the measurement system?
- 🕒 We provide manufacturer-independent advice and help with tender specification preparations
- 👉 Receive expert guidance and confidently **choose the right fault location system**.

3. Services

a. Cable diagnostic application

Diagnostic results are very detailed and complex.

We support you in the evaluation of your diagnostic results

- 🕒 Evaluation of diagnostic measurement data
- 🕒 Creation of measurement reports
- 🕒 Derivation of necessary actions

Application training for cable diagnostic systems

- 🕒 Theoretical and practical training at the customer's premises
 - Identify the appropriate connection arrangement for your typically installed switchgear and termination types.
- 🕒 The correct use of diagnostic equipment delivers accurate results.
- 🕒 Correct use is the basis for the correct assessment of the cable condition.
- 👉 Send us your measurement data and **gain clarity about your cable condition.**

b. Cable fault location services

We conduct application training courses for cable fault location

- 🕒 Cable fault location on control cables, low-voltage, medium-voltage and high-voltage cables is very versatile and complex. We offer theoretical and practical training courses and work together to understand which method is most effective for which type of fault.
- 🕒 The selection of the appropriate method enables fault localization even under difficult conditions.
- 🕒 The correct application of measurement methods is the basis for successful cable fault location.
- 🕒 We can be your partner for onsite support in difficult situations
 - Just when you need the support
- 👉 Secure your fault location training and significantly **reduce downtime.**

Ready to improve your network reliability, speed and cost efficiency?

- 👉 **Contact us** today for a personal consultation
- 👉 Request your **non-binding offer** now.

Consulting

Details

What economic advantages and values motivate for the application of condition-based maintenance?

Financial benefits

- Well-structured implementation of cable diagnostics can provide enormous financial benefits for the asset owner when existing and often aged cable routes do not need to be replaced if they are still in good condition.

Network planning support

- When the cable condition is known, maintenance measures can be carried out efficiently.
- Cable diagnostics is the basis for efficient network planning.

Reduction of cable failures

- Weaknesses in the cables can be detected in an early stage and cable faults can be avoided. Power outages can be minimized.



What measures do I derive from the cable diagnostic results?

- Cable diagnostic measurements should include TDR (Time Domain Reflectometry), TD (Tangent Delta) and PD (Partial Discharge) measurements. These data are rather complex and need a structured evaluation logic.
- The measurement data must be compared against limit values depending on many cable and accessory parameters.
- With experience, suitable limit values and logical connections can be defined according to the existing cable structure and components included.
- We offer workshops where the elements of the installed cable network are understood and the threshold values for all measurement parameters are defined and summarized in an evaluation logic with clear recommendations for further action.**



Application

Details

We provide consulting services for **cable diagnostics application**

How do I choose the right cable diagnostic system for my cable network?

- ⦿ What areas of application and voltage levels do I want to cover?
 - Acceptance test (quality check on new installations)
 - Maintenance test (after cable repair or partial replacement)
 - Condition assessment
- ⦿ Performance (which cable lengths need to be covered)
- ⦿ Portability, operating environment (portable system, cable test van)
- ⦿ What standards are there and should be followed?
- ⦿ Which technology is best suited?
- ⦿ We can be your sparring partner for challenging situations.



We provide consulting services for **cable fault location application**

How do I choose the right cable fault location system for my cable network?

- ⦿ The selection depends on the field of application
 - Control cables / pilot cables
 - Low voltage cable network
 - Medium voltage cable network
 - High voltage cable network
- ⦿ Portability, operating environment (portable system, cable test van)
- ⦿ Budget
- ⦿ Which measurement methods are required and must be included in the measurement system?
- ⦿ We provide manufacturer-independent advice and help with tender specification preparations
- ⦿ We can be your sparring partner for challenging situations.



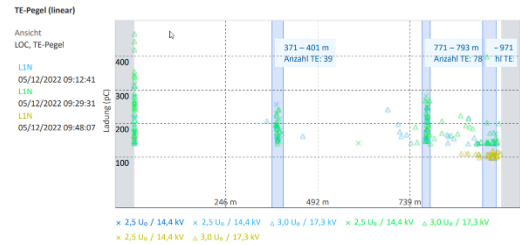
Services

Details

Cable diagnostics services

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⦿ Application training for cable diagnostic systems

- Theoretical and practical training of the customer’s premises
- The correct use of diagnostic equipment delivers accurate results
- Correct use is the basis for the correct assessment of the cable condition
- Identify the appropriate connection arrangement for your typically installed switchgear and termination type.

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- ⦿ Cable fault location on control cables, low-voltage, medium-voltage and high-voltage cables is very versatile and complex. We offer theoretical and practical training courses and work together to understand which method is most effective for which type of fault.
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