Consideration of test voltage results from CIGRE B1.28

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ON-SITE PD ASSESSMENT OF EXTRUDED HV & EHV CABLE SYSTEMS
CIGRE B1.28

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Relative number of tests
green shows voltage only tests
– from draft B1.28 brochure
Overall Voltage Picture

A subset of this 97% >Uo has information on:

- voltage level,
- test time,
- length and
- test outcome
Disbursement of Tests by Voltage

Cumulative Distribution

Panel variable: VOLTAGE GROUP (kV)
How often do things fail on voltage test

3-Parameter Weibull - 95% CI

Failures on Test [%]

TEST LEVEL (Uo)

0.9 1 1.5 2 2.5 3

0.01 0.02 0.05 0.1 0.2 0.5 1 5 10 20 50
Field Test Experience

How often do things show PD on test – from draft B1.28 brochure

![Graph showing PD inception voltage (Uo) vs. percent]

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How long do we have to wait for PD “on test” – from draft B1.28 brochure