measurement & training services

optical, protocol, video, power, power quality & energy



power quality & EMC & Instrumentation

fixed and portable PQ & energy monitoring, EMC immunity

telecommunication & networks

wireless & wireline testing, optical transport testing

fiber

physical layer testing, protocol testing, fiber splicers & cleaning, tools

Synchronisation

Time and Frequency Synchronization Solutions, NTP Servers



- 4

MPO multi-fiber connectoren: inspectie, meten en reinigen



Why inspection is important?

Not only because it's nice to have clean connectors!

- Direct impact on BER
- System performance
- Network reliability
- Impact is even greater with multi-fiber connectors where a single bad connector impacts multiple links

Why are connector dirty or damaged?



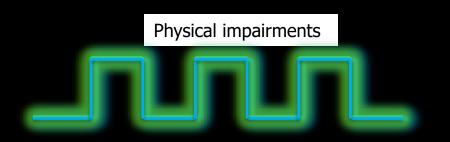


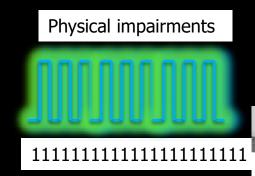


Is your fiber foundation ready?

Why does it matter more than ever now?

- Increased data rates make networks ultra sensitive.
- Excessive light returned to transmitter disturbs the laser and causes noise.
- It only takes 1/1000th of the signal to be reflected back to cause errors at 10 GigE!









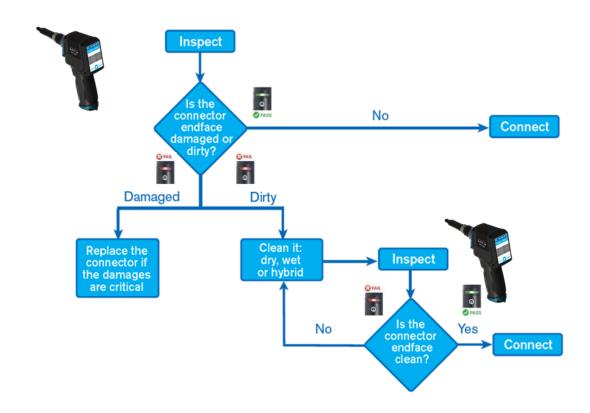
cause of network failures is contaminated connectors

- NTT-Advanced Technology Research,

80% of network owners report having connector issues



Inspection / Cleaning flow





When to clean?

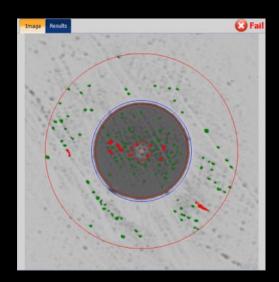
DAMAGED = REPLACE

Cleaning is worthless



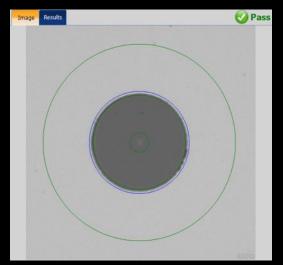
DIRTY = CLEAN

Clean ONLY if needed



CLEAN = CONNECT

NO cleaning required





Evaluation MPO Inspection tools

2008 2017 2021















MPO connector cleaning

- Attempting to clean a MPO connector can make it worse
- Inspect before you connect to avoid cleaning when not necessary
- MPO connectors are hard to clean and multiple inspections may be required







MPO Cleaning

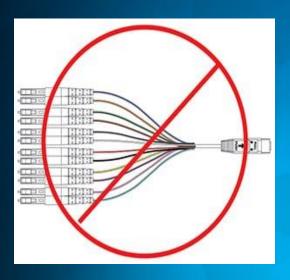








MPO Automated OTDR Testing

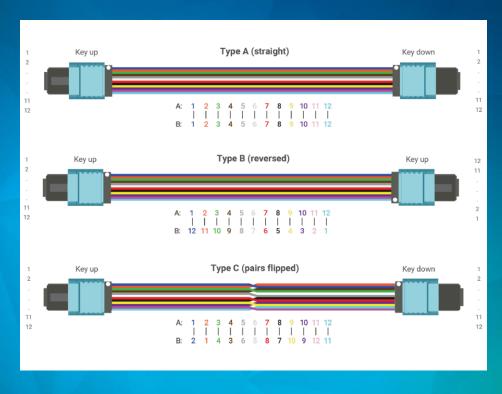








MPO OLTS & Polarity check







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Standnummer: 1



ET KENNISEVENT OVER COMPUTERRUIMTES, DATACENTERS EN CLOUD COMPUTING

