

Cable inspection system

- *Inline quality control of multi stranded cables*
- *Uninterrupted verification after stranding*
- *Rejections reduction through process optimizing*
- *Continuous documentation of process quality*
- *Fast integration in the production process*

Verification of:

- Color shade of every single lead in LAB or HSL
- Lead color sequence
- Length of twist
- Stranding uniformity
- Minimum and maximum cable width

Further customer demands can be integrated.

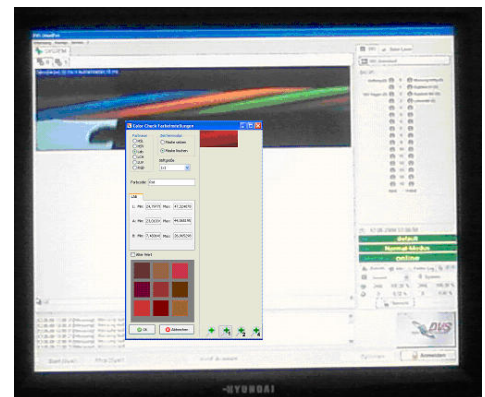


Inspection system

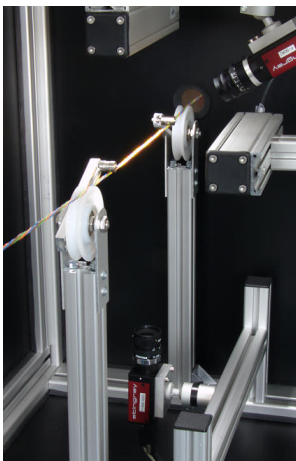
Quality enhancement and cost reduction

The inline error detection during production enables direct intervention creeping trends are detected in an early stage. This considerably reduces rejections and follow up costs caused by complaints.

Sample tests can be omitted.



User interface



Housing inside

Features

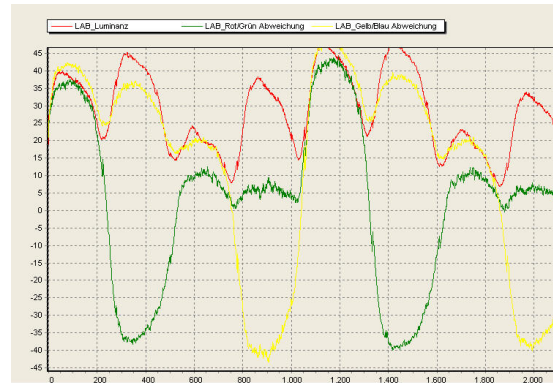
- Number of leads can product-specifically be set
- Allowable tolerances for every single inspection are independently adjustable
- Error reports can be parameterized (At choice single inspections or an adjustable number of errors can initiate a not ok signal.)
- Complete inspection documentation as a quality assessment
- Turnkey system to integrate in the production line

keeping an eye on quality

Features of different inspections

Lead color shade inspection

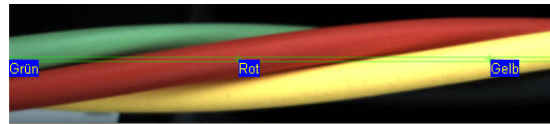
Color shade inspection at choice in the LAB- or HSL color space. Product specific tolerance limits can be set.



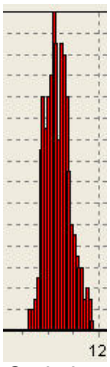
Color shade inspection

Lead color sequence

With the color shade inspection also the color sequence is determined. This way stranding errors are reliably detected.



Determination of color sequence



Optimized cable symmetry

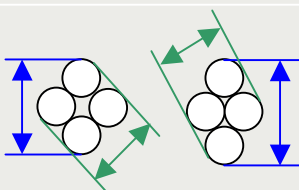
Length of layers

The length of layers is measured on a single lead. The results together with the allowed tolerance spread are clearly represented.

Stranding regularity

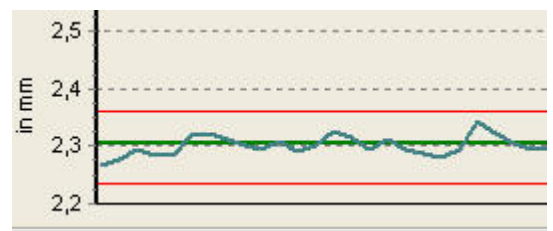
Stranding regularity inspection is used to optimize machine set up (e.g. tensile strength of the individual leads) to guarantee constant product quality.

Min./max.-width



Min./max. width in case of good and bad cable symmetry

The allowed tolerance spread for the min/max cable width is monitored. Creeping errors as well as incidental strand errors, like wrapping, are detected.



Monitoring of the allowed tolerance spread of stranded cable minimum width

keeping an eye on quality