



Frank Müller

Sachverständigenbüro

Von der Handwerkskammer Lübeck öffentlich bestellter und vereidigter Sachverständiger für das Elektrotechnikerhandwerk, Fachrichtung Elektroinstallateur VDE-geprüfte Blitzschutzfachkraft des Ausschusses für Blitzschutz und Blitzforschung (ABB) VdS-anerkannter Sachkundiger für Blitz- und Überspannung sowie EMV-gerechte elektrische Anlagen

Qualitätsunterschiede in der LWL-Stecker-Konfektion!

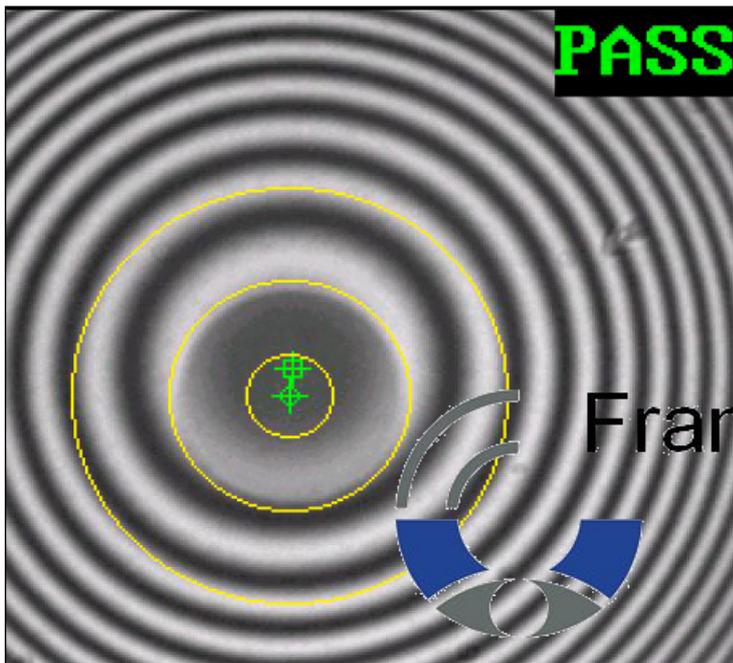
Gute Steckerkonfektion – Interferometer-Vermessung der Oberflächen

Quality Control Report

Sample ID:	PerfekteNetze-good	PASSED
Sample Name & Type:	DORC PC	Direct Optical Research Company
Measurement Time & Date:	10:50:59	ZX-1 Zoom Interferometer
Fitting Regions Used:	D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value	Passed or Failed
	Minimum	Maximum		
Radius of Curvature	10,00	25,00	12,54 mm	Pass
Fiber Height (Spherical Fit)	-50,0	50,0	8,8 nm	Pass
Fiber Height (Planar Fit)	-50,0	150,0	164,0 nm	
Apex Offset	0,00	50,00	17,17 µm	Pass
Bearing			1,600 degrees	
Angle	-0,300	0,300	0,078 degrees	Pass
Tilt Offset			degrees	
Actual Angle			degrees	
Key Error			degrees	
Fiber Roughness (Rq)	0	50	6 nm	Pass
Fiber Roughness (Ra)	0	50	5 nm	Pass
Ferrule Roughness (Rq)	0	50	4 nm	Pass
Ferrule Roughness (Ra)	0	50	3 nm	Pass
Diameter	123,0	130,0	129,7 µm	Pass
Comments				

BLANK = NOT APPLICABLE OR NOT SELECTED



Sample ID:	PerfekteNetze-good	10:50:59 01/00/00
		PASSED



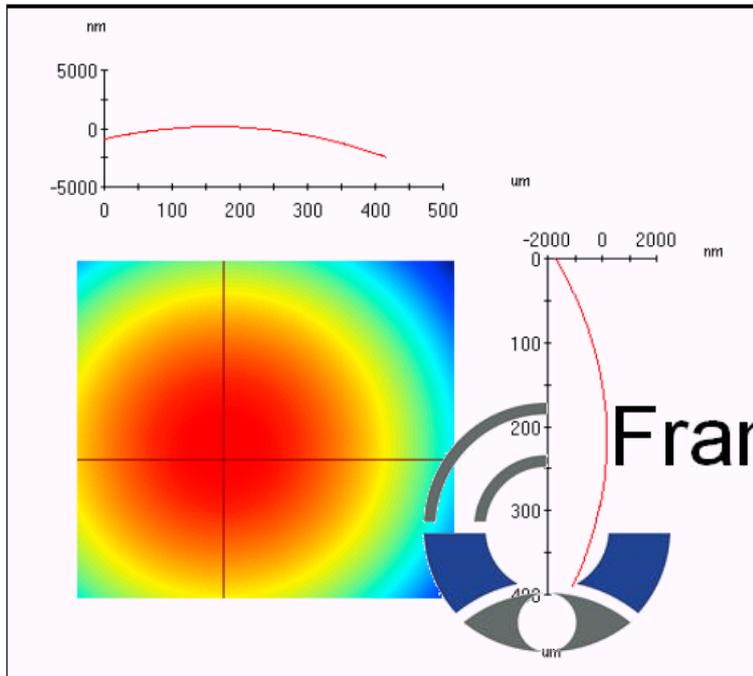
Gute Steckerkonfektion – 2-D Interferometer-Vermessung der Oberflächen

Quality Control Report

Sample ID: PerfekteNetze-good	PASSED
Sample Name & Type: DORC PC	Direct Optical Research Company
Measurement Time & Date: 10:50:59	ZX-1 Zoom Interferometer
Fitting Regions Used: D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value	Passed or Failed
	Minimum	Maximum		
Radius of Curvature	10,00	25,00	12,54 mm	Pass
Fiber Height (Spherical Fit)	-50,0	50,0	8,8 nm	Pass
Fiber Height (Planar Fit)	-50,0	150,0	164,0 nm	
Apex Offset	0,00	50,00	17,17 µm	Pass
Bearing			1,600 degrees	
Angle	-0,300	0,300	0,078 degrees	Pass
Tilt Offset			degrees	
Actual Angle			degrees	
Key Error			degrees	
Fiber Roughness (Rq)	0	50	6 nm	Pass
Fiber Roughness (Ra)	0	50	5 nm	Pass
Ferrule Roughness (Rq)	0	50	4 nm	Pass
Ferrule Roughness (Ra)	0	50	3 nm	Pass
Diameter	123,0	130,0	129,7 µm	Pass
Comments				

BLANK = NOT APPLICABLE OR NOT SELECTED



Sample ID: PerfekteNetze-good	10:50:59 01/00/00
	PASSED



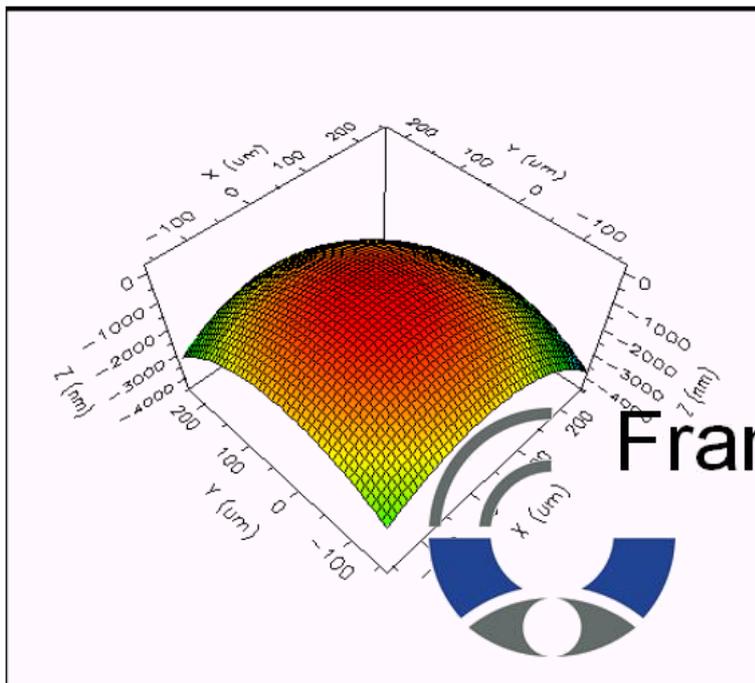
Gute Steckerkonfektion – 3-D Interferometer-Vermessung der Oberflächen

Quality Control Report

Sample ID:	PerfekteNetze-good	PASSED
Sample Name & Type:	DORC PC	Direct Optical Research Company
Measurement Time & Date:	10:50:59	ZX-1 Zoom Interferometer
Fitting Regions Used:	D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value	Passed or Failed
	Minimum	Maximum		
Radius of Curvature	10,00	25,00	12,54 mm	Pass
Fiber Height (Spherical Fit)	-50,0	50,0	8,8 nm	Pass
Fiber Height (Planar Fit)	-50,0	150,0	164,0 nm	
Apex Offset	0,00	50,00	17,17 µm	Pass
Bearing			1,600 degrees	
Angle	-0,300	0,300	0,078 degrees	Pass
Tilt Offset			degrees	
Actual Angle			degrees	
Key Error			degrees	
Fiber Roughness (Rq)	0	50	6 nm	Pass
Fiber Roughness (Ra)	0	50	5 nm	Pass
Ferrule Roughness (Rq)	0	50	4 nm	Pass
Ferrule Roughness (Ra)	0	50	3 nm	Pass
Diameter	123,0	130,0	129,7 µm	Pass
Comments				

BLANK = NOT APPLICABLE OR NOT SELECTED



Sample ID:	PerfekteNetze-good
	10:50:59 01/00/00
	PASSED

Nicht-Gute Steckerkonfektion – Interferometer-Vermessung der Oberflächen

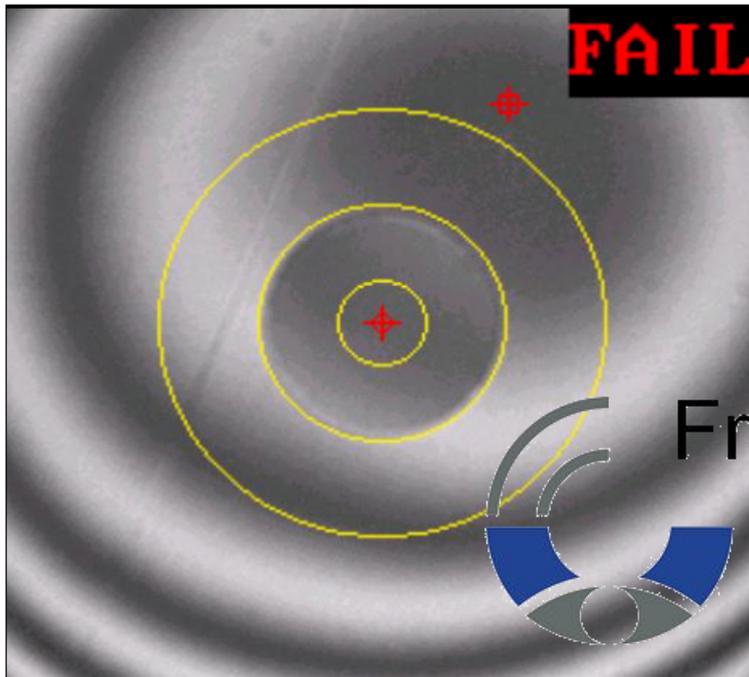


Quality Control Report

Sample ID: PerfekteNetze-1	FAILED
Sample Name & Type: DORC PC	<small>Direct Optical Research Company</small>
Measurement Time & Date: 14:59:38 08.04.00	ZX-1 Zoom Interferometer
Fitting Regions Used: D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value		Passed or Failed
	Minimum	Maximum			
Radius of Curvature	10,00	25,00	101,61	mm	Fail
Fiber Height (Spherical Fit)	-50,0	50,0	84,5	nm	Fail
Fiber Height (Planar Fit)	-50,0	150,0	105,4	nm	
Apex Offset	0,00	50,00	146,01	µm	Fail
Bearing			28,500	degrees	
Angle	-0,300	0,300	0,082	degrees	Pass
Tilt Offset				degrees	
Actual Angle				degrees	
Key Error				degrees	
Fiber Roughness (Rq)	0	50	20	nm	Pass
Fiber Roughness (Ra)	0	50	14	nm	Pass
Ferrule Roughness (Rq)	0	50	9	nm	Pass
Ferrule Roughness (Ra)	0	50	8	nm	Pass
Diameter	123,0	130,0	135,1	µm	
Comments					

BLANK = NOT APPLICABLE OR NOT SELECTED



PerfekteNetze-1	14:59:38 08/04/00
Sample ID:	FAILED

Nicht-Gute Steckerkonfektion – 2-D Interferometer-Vermessung der Oberflächen

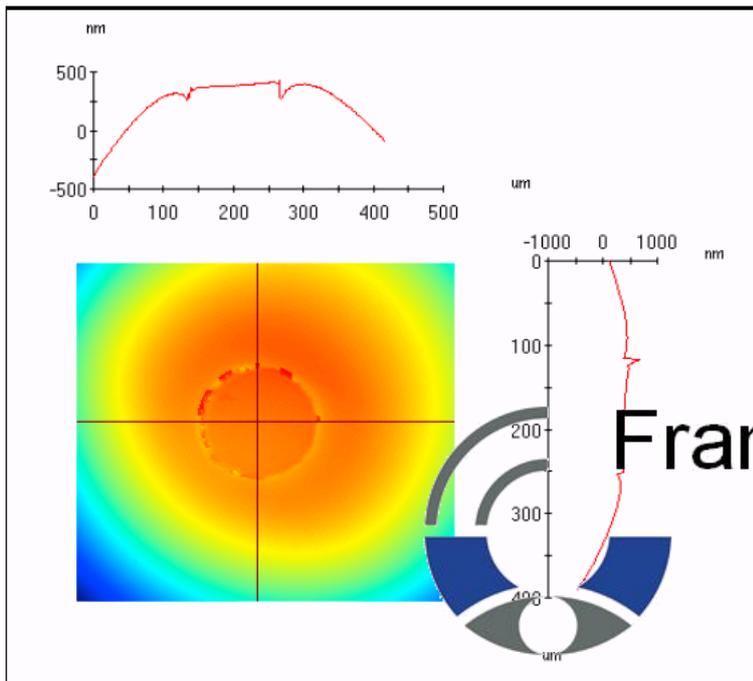


Quality Control Report

Sample ID: PerfekteNetze-1	FAILED
Sample Name & Type: DORC PC	Direct Optical Research Company
Measurement Time & Date: 12:26:12	ZX-1 Zoom Interferometer
Fitting Regions Used: D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value	Passed or Failed
	Minimum	Maximum		
Radius of Curvature	10,00	25,00	72,23 mm	Fail
Fiber Height (Spherical Fit)	-50,0	50,0	-20,0 nm	Pass
Fiber Height (Planar Fit)	-50,0	150,0	10,2 nm	
Apex Offset	0,00	50,00	75,35 µm	Fail
Bearing			36,200 degrees	
Angle	-0,300	0,300	0,060 degrees	Pass
Tilt Offset			degrees	
Actual Angle			degrees	
Key Error			degrees	
Fiber Roughness (Rq)	0	50	46 nm	Pass
Fiber Roughness (Ra)	0	50	24 nm	Pass
Ferrule Roughness (Rq)	0	50	26 nm	Pass
Ferrule Roughness (Ra)	0	50	20 nm	Pass
Diameter	123,0	130,0	136,8 µm	
Comments				

BLANK = NOT APPLICABLE OR NOT SELECTED



PerfekteNetze-1	12:26:12 01/00/00
Sample ID:	FAILED



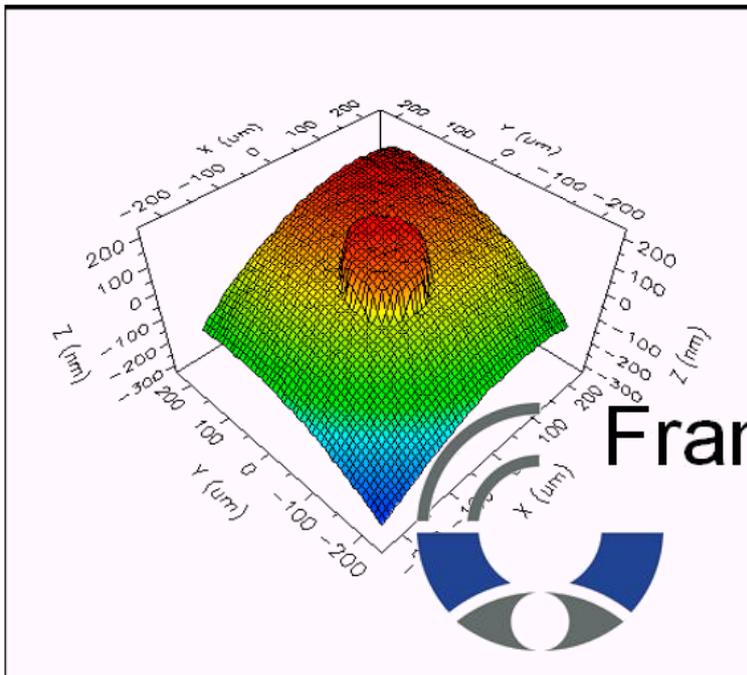
Nicht-Gute Steckerkonfektion – 3-D Interferometer-Vermessung der Oberflächen

Quality Control Report

Sample ID: PerfekteNetze-1	FAILED
Sample Name & Type: DORC PC	Direct Optical Research Company (D)
Measurement Time & Date: 15:03:58 08.04.00	ZX-1 Zoom Interferometer
Fitting Regions Used: D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value	Passed or Failed
	Minimum	Maximum		
Radius of Curvature	10,00	25,00	301,26 mm	Fail
Fiber Height (Spherical Fit)	-50,0	50,0	72,9 nm	Fail
Fiber Height (Planar Fit)	-50,0	150,0	80,0 nm	
Apex Offset	0,00	50,00	260,17 µm	Fail
Bearing			40,000 degrees	
Angle	-0,300	0,300	0,049 degrees	Pass
Tilt Offset			degrees	
Actual Angle			degrees	
Key Error			degrees	
Fiber Roughness (Rq)	0	50	19 nm	Pass
Fiber Roughness (Ra)	0	50	14 nm	Pass
Ferrule Roughness (Rq)	0	50	6 nm	Pass
Ferrule Roughness (Ra)	0	50	5 nm	Pass
Diameter	123,0	130,0	135,1 µm	
Comments				

BLANK = NOT APPLICABLE OR NOT SELECTED



Sample ID: PerfekteNetze-1	15:03:58 08/04/00
	FAILED



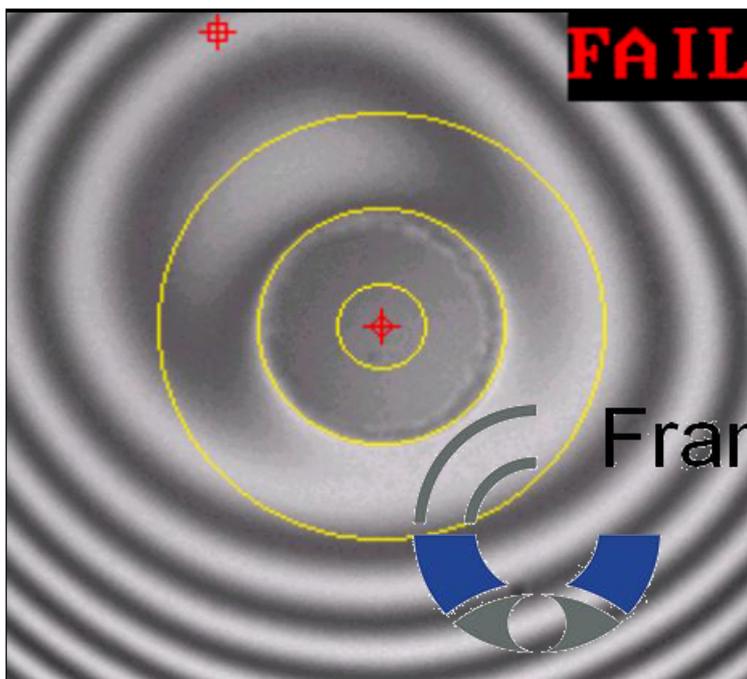
Nicht-Gute Steckerkonfektion – Interferometer-Vermessung der Oberflächen

Quality Control Report

Sample ID: PerfekteNetze-2	FAILED
Sample Name & Type: DORC PC	Direct Optical Research Company (DORC)
Measurement Time & Date: 14:45:13 08.04.00	ZX-1 Zoom Interferometer
Fitting Regions Used: D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value	Passed or Failed
	Minimum	Maximum		
Radius of Curvature	10,00	25,00	139,95 mm	Fail
Fiber Height (Spherical Fit)	-50,0	50,0	-46,8 nm	Pass
Fiber Height (Planar Fit)	-50,0	150,0	-31,1 nm	
Apex Offset	0,00	50,00	195,63 µm	Fail
Bearing			332,100 degrees	
Angle	-0,300	0,300	0,080 degrees	Pass
Tilt Offset			degrees	
Actual Angle			degrees	
Key Error			degrees	
Fiber Roughness (Rq)	0	50	38 nm	Pass
Fiber Roughness (Ra)	0	50	25 nm	Pass
Ferrule Roughness (Rq)	0	50	28 nm	Pass
Ferrule Roughness (Ra)	0	50	22 nm	Pass
Diameter	123,0	130,0	136,9 µm	
Comments				

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PerfekteNetze-2	14:45:13 08/04/00
Sample ID:	FAILED



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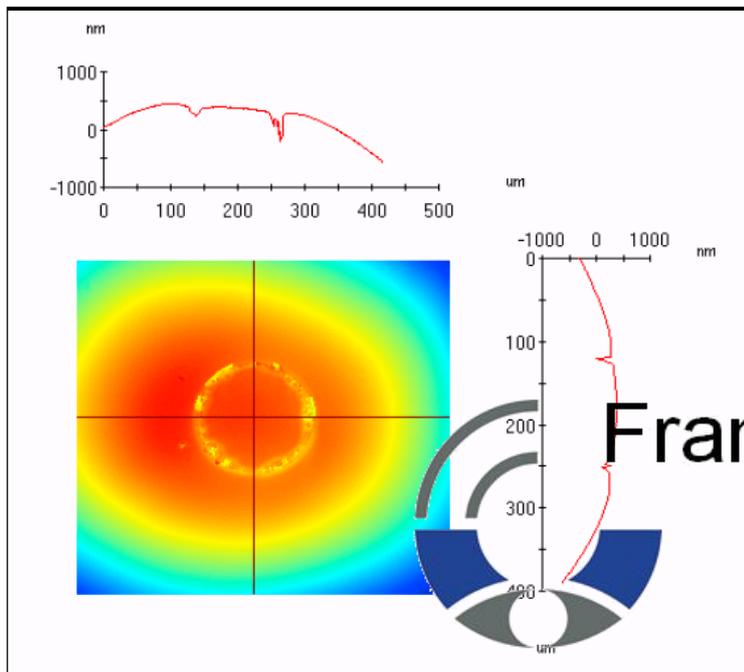
Nicht-Gute Steckerkonfektion – 2-D Interferometer-Vermessung der Oberflächen

Quality Control Report

Sample ID: PerfekteNetze-2	FAILED
Sample Name & Type: DORC PC	Direct Optical Research Company
Measurement Time & Date: 12:12:58	ZX-1 Zoom Interferometer
Fitting Regions Used: D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value	Passed or Failed
	Minimum	Maximum		
Radius of Curvature	10,00	25,00	46,59 mm	Fail
Fiber Height (Spherical Fit)	-50,0	50,0	-2,9 nm	Pass
Fiber Height (Planar Fit)	-50,0	150,0	44,7 nm	
Apex Offset	0,00	50,00	48,48 µm	Pass
Bearing			274,200 degrees	
Angle	-0,300	0,300	0,060 degrees	Pass
Tilt Offset			degrees	
Actual Angle			degrees	
Key Error			degrees	
Fiber Roughness (Rq)	0	50	64 nm	Fail
Fiber Roughness (Ra)	0	50	42 nm	Pass
Ferrule Roughness (Rq)	0	50	51 nm	Fail
Ferrule Roughness (Ra)	0	50	44 nm	Pass
Diameter	123,0	130,0	137,8 µm	
Comments				

BLANK = NOT APPLICABLE OR NOT SELECTED



PerfekteNetze-2	12:12:58 01/00/00
Sample ID:	FAILED



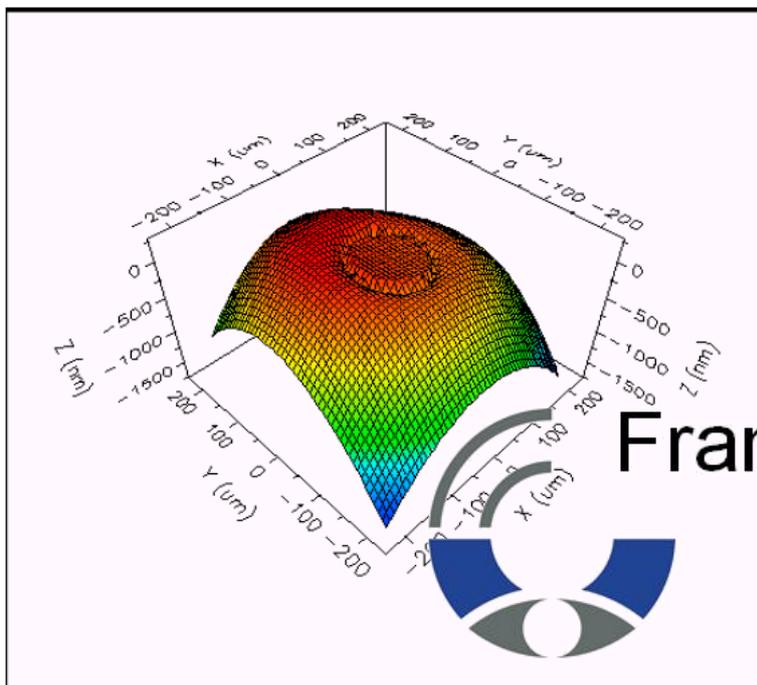
Nicht-Gute Steckerkonfektion – 3-D Interferometer-Vermessung der Oberflächen

Quality Control Report

Sample ID: PerfekteNetze-2	FAILED
Sample Name & Type: DORC PC	Direct Optical Research Company
Measurement Time & Date: 14:45:13 08.04.00	ZX-1 Zoom Interferometer
Fitting Regions Used: D=250µm, E=140µm, F=50µm, A=700µm	XR: No

Measurement Parameter	Pass/Fail Limits		Measured Value	Passed or Failed
	Minimum	Maximum		
Radius of Curvature	10,00	25,00	139,95 mm	Fail
Fiber Height (Spherical Fit)	-50,0	50,0	-46,8 nm	Pass
Fiber Height (Planar Fit)	-50,0	150,0	-31,1 nm	
Apex Offset	0,00	50,00	195,63 µm	Fail
Bearing			332,100 degrees	
Angle	-0,300	0,300	0,080 degrees	Pass
Tilt Offset			degrees	
Actual Angle			degrees	
Key Error			degrees	
Fiber Roughness (Rq)	0	50	38 nm	Pass
Fiber Roughness (Ra)	0	50	25 nm	Pass
Ferrule Roughness (Rq)	0	50	28 nm	Pass
Ferrule Roughness (Ra)	0	50	22 nm	Pass
Diameter	123,0	130,0	136,9 µm	
Comments				

BLANK = NOT APPLICABLE OR NOT SELECTED



PerfekteNetze-2	14:45:13 08/04/00
Sample ID:	FAILED

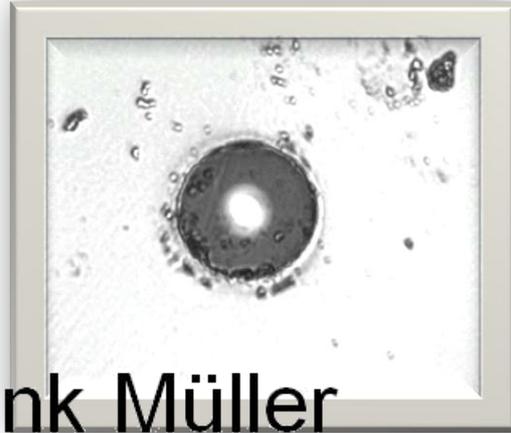
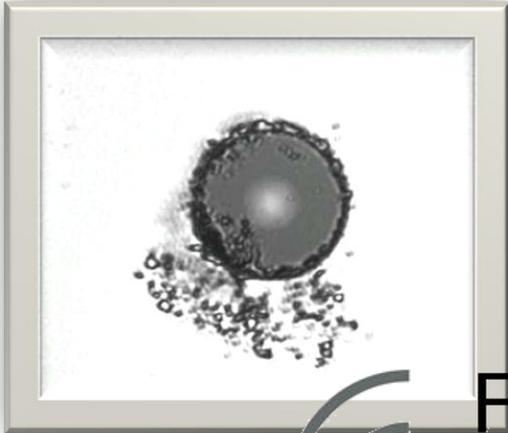


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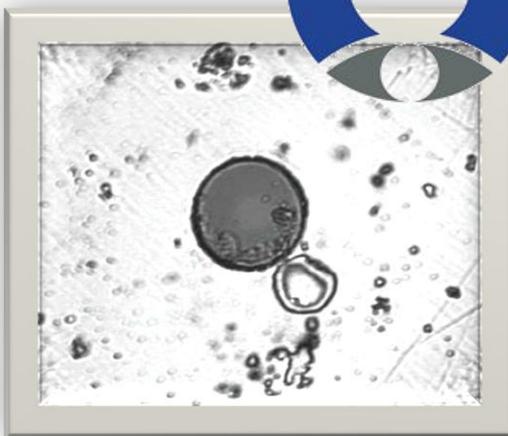
Sachverständigenbüro

Von der Handwerkskammer Lübeck öffentlich bestellter und
vereidigter Sachverständiger für das
Elektrotechnikerhandwerk, Fachrichtung Elektroinstallateur
VDE-geprüfte Blitzschutzfachkraft des Ausschusses für
Blitzschutz und Blitzforschung (ABB)
VdS-anerkannter Sachkundiger für Blitz- und Überspannung
sowie EMV-gerechte elektrische Anlagen

Oberflächen Verschmutzungen durch Klebstoffreste und Verunreinigungen



Frank Müller





Mangelhaft konfektionierte MTRJ45 Glasfasterstecker

