Report No.: SZXWT01002379 Rev.1

INSPECTION REPORT

To :	XFS COMMUNICATIONS INC.	Date:	25-Jan-2018
Att :	Andy		
From :	Andy Hu	E-mail :	Andy.hu@sgs.com

SGS File No.:	CNSZX18739911	Product family view
Buyer :	N/A	
Supplier :	XFS COMMUNICATIONS INC.	
Manufacturer :	XFS COMMUNICATIONS INC.	
Style Number:	N/A	
Product description:	MM MPO/UPC-LC Fanout, SM MPO/APC-LC Fanout, LC/APC Jumper, SC/APC Jumper, LSH/APC Jumper	
P.O. Number:	N/A	
L/C Number:	N/A	
Service performed :	Witness	
Inspection Date :	From 22-Jan-2018 to 24-Jan-2018	
Inspection Location :	Shenzhen, China	

Inspection Criteria

Reference sample provided by	Not Available
Client instruction/specification	Yes
SGS WI number	P-INSP-WI-EE-G00
Other	Nil

Overall Inspection Conclusion:	**Subject to client's evaluation**

Inspection Summary:

1. Model & Quantity:	Conform
2. Witness of Testing Process:	Subject to client's evaluation
Problem Remark:	
1. According to client's requirement, SGS performed the Witness of testing for below items in factory : To test the End-face Quality / End-face Geometry/ Optical Performance of products.	
2. This report only reflected our actual finding.	

Inspector: Zhenxing Peng Factory Representative: _____

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1. Model & Quantity: Conform

No	Product description:	P.O. No.	Order Qty.	Inspection Qty. (Presented Qty. for insp.)		Number of Cartons	
				Packed	Not Packed	Packed	Not packed
1.	SM MPO/APC-LC Fanout	/	8 PCS	/	8 PCS	/	8 PCS
2.	MM MPO/UPC-LC Fanout	/	8 PCS	/	8 PCS	/	8 PCS
3.	LC/APC Jumper	/	30 PCS	/	30 PCS	/	30 PCS
4.	SC/APC Jumper	/	30 PCS	/	30 PCS	/	30 PCS
5.	LSH/APC Jumper	/	10 PCS	/	10 PCS	/	10 PCS
		Total:	86	/	86	/	86

2. Witness of testing Process: Subject to client's evaluation

Test equipment	Model name	Serial number	Date of calibration	Manufacturer	Remarks
RL-IL METER	AR-10	MUB018AC	2018-1-15	NTT AT	1310nm/1550nm
RL-IL METER	AR-10	MUB024AC	2018-1-15	NTT AT	1300nm
RL-IL METER	AR-10	MUB021AC	2018-1-15	NTT AT	850nm
Optical Return Loss Meter	CORL –A1	C-0019	2017-7-13	JDSU	1310nm/1550nm/1625nm
Optical Power Meter	COPM –A1	C-0013	2017-7-13	JDSU	1310nm/1550nm/1625nm
Fiber Microscopes	FTN450	n/a	n/a	Ausbest	n/a
Data-pixel	STD	0304	2018-1-15	DaiSi	Singel fiber
Data-pixel	MT	1301	2018-1-15	DaiSi	MT

Test the End-face Quality / End-face Geometry/ Optical Performance of products.
Comment:
IL test: Factory's method need to reset the test equipment to "0". **RL test: Factory's method did not need to reset the test equipment to "0".**

2.1 For item: SM MPO/APC-LC Fanout 4pcs
2.1.1 Test the Optical Performance of products.

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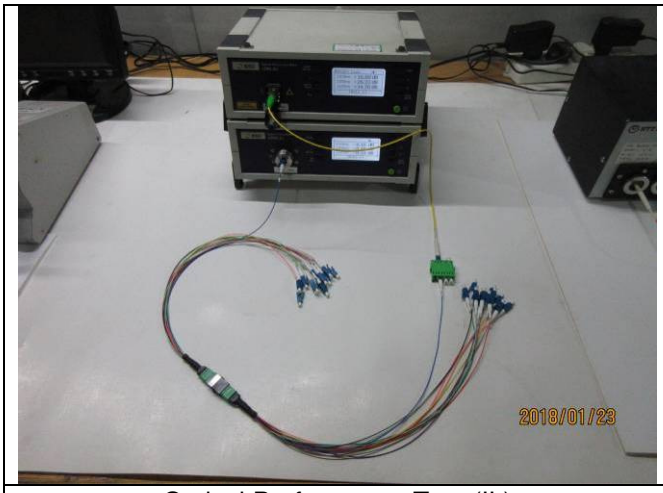
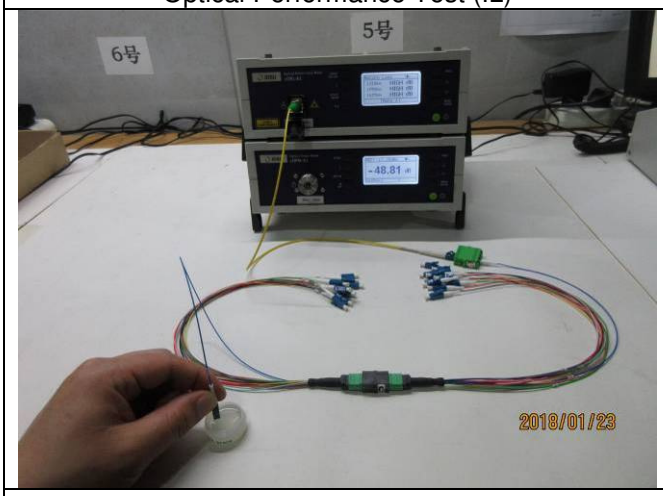
	
Optical Performance Test (IL)	Optical Performance Test (IL)
	
Optical Performance Test (RL)	Optical Performance Test (RL)

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Channel		IL(dB)			RL(dB)		
		1310nm	1550nm	1625nm	1310nm	1550nm	1625nm
A-1	Channel 1	0.17	0.15	0.15	HIGH	HIGH	HIGH
	Channel 2	0.07	0.09	0.11	HIGH	HIGH	HIGH
	Channel 3	0.07	0.10	0.11	HIGH	HIGH	HIGH
	Channel 4	0.18	0.18	0.18	HIGH	HIGH	HIGH
	Channel 5	0.20	0.15	0.19	HIGH	HIGH	HIGH
	Channel 6	0.07	0.07	0.09	HIGH	HIGH	HIGH
	Channel 7	0.08	0.06	0.09	HIGH	HIGH	HIGH
	Channel 8	0.19	0.16	0.20	HIGH	HIGH	HIGH
	Channel 9	0.08	0.12	0.16	HIGH	HIGH	HIGH
	Channel 10	0.10	0.11	0.13	HIGH	HIGH	HIGH
	Channel 11	0.08	0.09	0.14	HIGH	HIGH	HIGH
	Channel 12	0.11	0.13	0.19	HIGH	HIGH	HIGH
A-2	Channel 1	0.20	0.15	0.18	HIGH	HIGH	HIGH
	Channel 2	0.09	0.08	0.12	HIGH	HIGH	HIGH
	Channel 3	0.18	0.15	0.15	HIGH	HIGH	HIGH
	Channel 4	0.10	0.10	0.13	HIGH	HIGH	HIGH
	Channel 5	0.17	0.16	0.18	HIGH	HIGH	HIGH
	Channel 6	0.11	0.11	0.16	HIGH	HIGH	HIGH
	Channel 7	0.18	0.12	0.17	HIGH	HIGH	HIGH
	Channel 8	0.19	0.16	0.22	HIGH	HIGH	HIGH
	Channel 9	0.08	0.09	0.11	HIGH	HIGH	HIGH
	Channel 10	0.12	0.11	0.12	HIGH	HIGH	HIGH
	Channel 11	0.10	0.11	0.09	HIGH	HIGH	HIGH
	Channel 12	0.11	0.10	0.08	HIGH	HIGH	HIGH

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A-3	Channel 1	0.08	0.08	0.10	HIGH	HIGH	HIGH
	Channel 2	0.17	0.15	0.16	HIGH	HIGH	HIGH
	Channel 3	0.09	0.09	0.14	HIGH	HIGH	HIGH
	Channel 4	0.19	0.15	0.17	HIGH	HIGH	HIGH
	Channel 5	0.09	0.08	0.13	HIGH	HIGH	HIGH
	Channel 6	0.08	0.07	0.12	HIGH	HIGH	HIGH
	Channel 7	0.09	0.07	0.10	HIGH	HIGH	HIGH
	Channel 8	0.09	0.06	0.08	HIGH	HIGH	HIGH
	Channel 9	0.16	0.14	0.15	HIGH	HIGH	HIGH
	Channel 10	0.17	0.18	0.19	HIGH	HIGH	HIGH
	Channel 11	0.15	0.17	0.12	HIGH	HIGH	HIGH
	Channel 12	0.16	0.14	0.17	HIGH	HIGH	HIGH
A-4	Channel 1	0.11	0.15	0.16	HIGH	HIGH	HIGH
	Channel 2	0.10	0.15	0.16	HIGH	HIGH	HIGH
	Channel 3	0.11	0.14	0.17	HIGH	HIGH	HIGH
	Channel 4	0.15	0.15	0.18	HIGH	HIGH	HIGH
	Channel 5	0.14	0.14	0.14	HIGH	HIGH	HIGH
	Channel 6	0.14	0.15	0.15	HIGH	HIGH	HIGH
	Channel 7	0.09	0.11	0.13	HIGH	HIGH	HIGH
	Channel 8	0.08	0.09	0.07	HIGH	HIGH	HIGH
	Channel 9	0.09	0.10	0.12	HIGH	HIGH	HIGH
	Channel 10	0.14	0.15	0.17	HIGH	HIGH	HIGH
	Channel 11	0.15	0.15	0.16	HIGH	HIGH	HIGH
	Channel 12	0.09	0.08	0.07	HIGH	HIGH	HIGH

SM MPO/APC-LC Fanout test results

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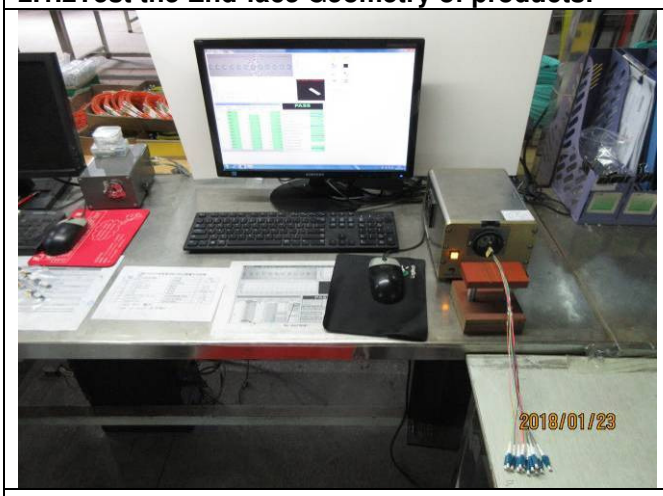
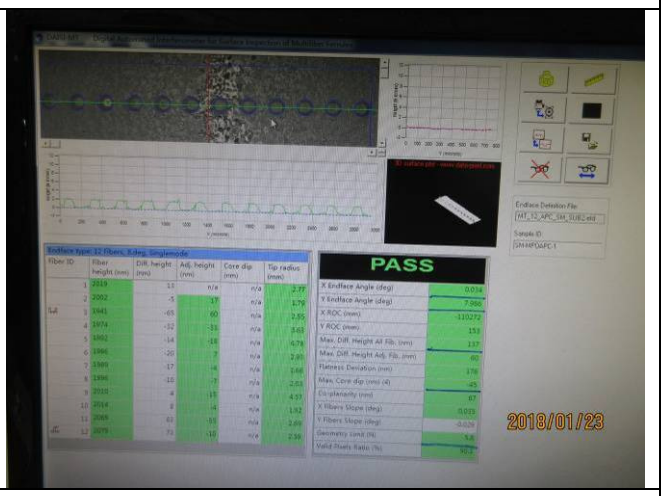
2.1.2Test the End-face Geometry of products.

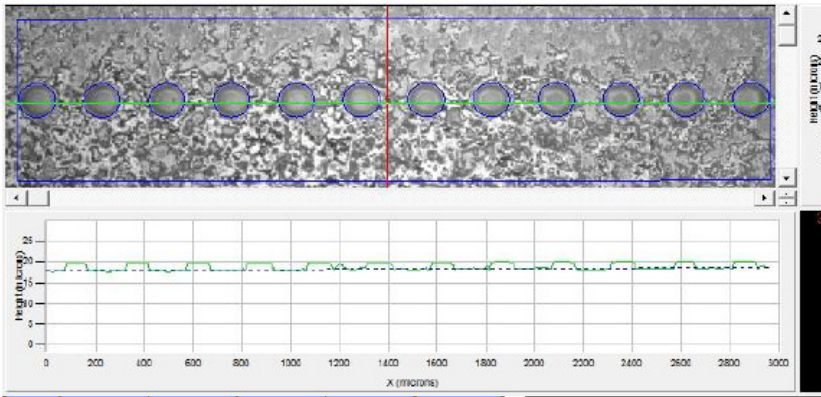


End-face Geometry Test



End-face Geometry Test

Ferrule Endface Geometry Measurement Report



Fiber #	Fiber Height (nm)	Diff. Height (nm)	Adj. Height (nm)	Core Dip (nm)	Tip radius (mm)
1	1708	-16	n/a	-43	5.74
2	1707	-17	0	-60	5.46
3	1705	-19	2	-57	8.34
4	1713	-11	-8	-32	11.05
5	1765	41	-52	-35	7.11
6	1757	32	8	-35	8.28
7	1738	13	19	-36	8.6
8	1751	27	-14	-36	9.47
9	1727	3	24	-10	10.77
10	1713	-11	14	-26	8.45
11	1727	2	-14	-35	8.08
12	1674	-50	52	-42	8.64

PASS	
X Endface Angle (°)	0.014
Y Endface Angle (°)	7.978
X Fibers Slope (°)	0.014
Y Fibers Slope (°)	-0.017
X ROC (mm)	18080
Y ROC (mm)	255
Max. Diff. Height All Fib. (nm)	90
Max. Diff. Height Adj. Fib. (nm)	52
Flatness Deviation (nm)	221
Max. Core Dip (nm)	-10
Co-planarity (nm)	47
Valid Pixels Ration (%)	91.2
Geometry Limit (N)	2.9
Endface Definition File	Sample ID
MT_12_APC_SM_SUB2.efd	SM-MPOAPC-1

T1	
Date	
T3	
SN #	
T5	
T6	
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T10	
T11	

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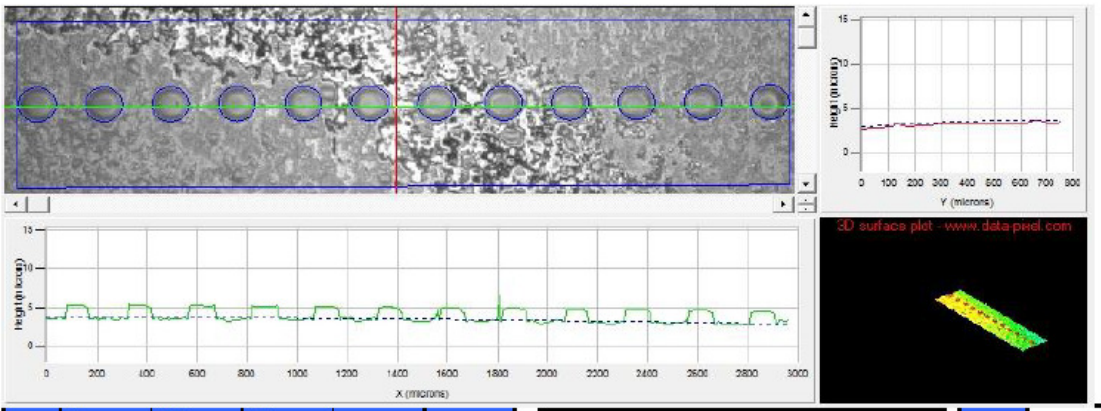
Ferrule Endface Geometry Measurement Report



Fiber #	Fiber Height (nm)	Diff. Height (nm)	Adj. Height (nm)	Core Dip (nm)	Tip radius (mm)
1	1506	-119	n/a	-21	8.87
2	1567	-58	-62	-47	7.02
3	1601	-25	-34	-36	10.26
4	1643	18	-43	-13	15.54
5	1691	66	-48	-26	11.06
6	1674	48	17	-26	11.82
7	1669	44	4	-33	9.55
8	1678	53	-9	-37	11.2
9	1666	41	12	-25	9.19
10	1616	-9	49	-19	10.24
11	1609	-16	7	-36	7.18
12	1574	-51	34	-50	6.06

PASS

X Endface Angle (°)	-0.017
Y Endface Angle (°)	7.948
X Fibers Slope (°)	-0.016
Y Fibers Slope (°)	-0.067
X ROC (mm)	5981
Y ROC (mm)	319
Max. Diff. Height All Fib. (nm)	185
Max. Diff. Height Adj. Fib. (nm)	61
Flatness Deviation (nm)	235
Max. Core Dip (nm)	-13
Co-planarity (nm)	93
Valid Pixels Ration (%)	91.1
Geometry Limit (N)	4.7
Endface Definition File	Sample ID
MT_12_APC_SM_SUB2.efd	SM-MPOAPC-2

T1	
Date	
T3	
SN #	
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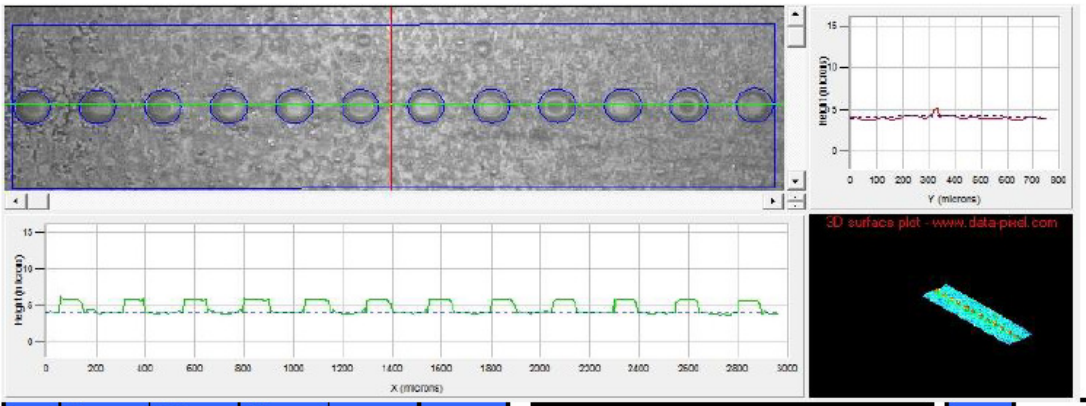
Ferrule Endface Geometry Measurement Report



Fiber #	Fiber Height (nm)	Diff. Height (nm)	Adj. Height (nm)	Core Dip (nm)	Tip radius (mm)
1	1779	20	n/a	-27	6.69
2	1768	9	10	-53	6.23
3	1752	-7	16	-51	10.49
4	1785	26	-33	-28	12.85
5	1796	37	-12	-19	7.62
6	1798	40	-3	-33	7.91
7	1779	20	19	-20	10.12
8	1783	24	-4	-32	11.51
9	1786	27	-3	-12	8.6
10	1745	-14	40	-28	8.77
11	1702	-57	43	-33	7.07
12	1627	-132	75	-36	7.1

PASS

X Endface Angle (°)	0
Y Endface Angle (°)	8.006
X Fibers Slope (°)	-0.002
Y Fibers Slope (°)	-0.017
X ROC (mm)	9114
Y ROC (mm)	298
Max. Diff. Height All Fib. (nm)	171
Max. Diff. Height Adj. Fib. (nm)	75
Flatness Deviation (nm)	220
Max. Core Dip (nm)	-12
Co-planarity (nm)	83
Valid Pixels Ration (%)	90.9
Geometry Limit (N)	2
Endface Definition File	Sample ID
MT_12_APC_SM_SUB2.efd	SM-MPOAPC-3

T1	
Date	
T3	
SN #	
T5	
T6	
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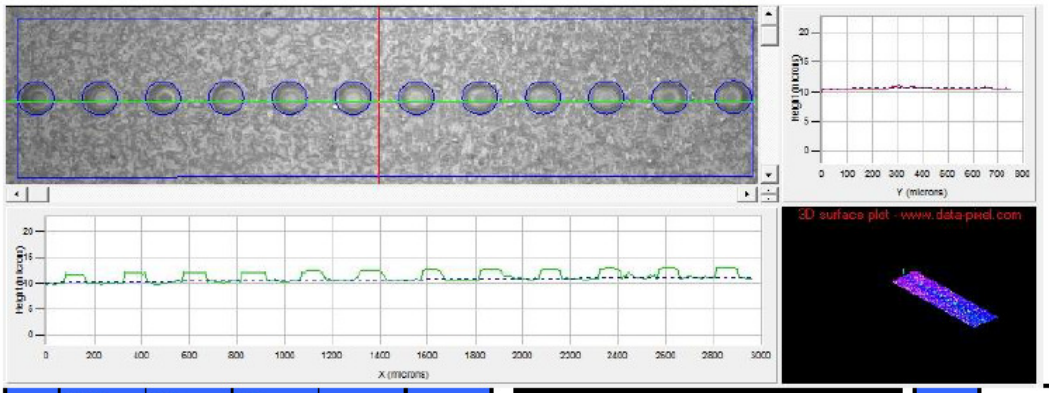
Ferrule Endface Geometry Measurement Report



Fiber #	Fiber Height (nm)	Diff. Height (nm)	Adj. Height (nm)	Core Dip (nm)	Tip radius (mm)
1	1621	-108	n/a	-64	4.4
2	1666	-63	-45	-64	5.02
3	1721	-7	-56	-70	6.34
4	1766	38	-46	-31	10.01
5	1761	32	5	-54	7.08
6	1756	27	4	-38	6.88
7	1775	46	-19	-50	6.37
8	1804	76	-30	-39	7.04
9	1745	16	59	-17	8.63
10	1707	-22	38	-41	7.08
11	1739	10	-32	-35	7.85
12	1678	-51	61	-39	7.08

PASS	
X Endface Angle (°)	0.023
Y Endface Angle (°)	7.996
X Fibers Slope (°)	0.024
Y Fibers Slope (°)	-0.014
X ROC (mm)	11867
Y ROC (mm)	207
Max. Diff. Height All Fib. (nm)	183
Max. Diff. Height Adj. Fib. (nm)	61
Flatness Deviation (nm)	280
Max. Core Dip (nm)	-17
Co-planarity (nm)	83
Valid Pixels Ration (%)	91.3
Geometry Limit (N)	5
Endface Definition File	Sample ID
MT_12_APC_SM_SUB2.efd	SM-MPOAPC-4

T1	
Date	
T3	
SN #	
T5	
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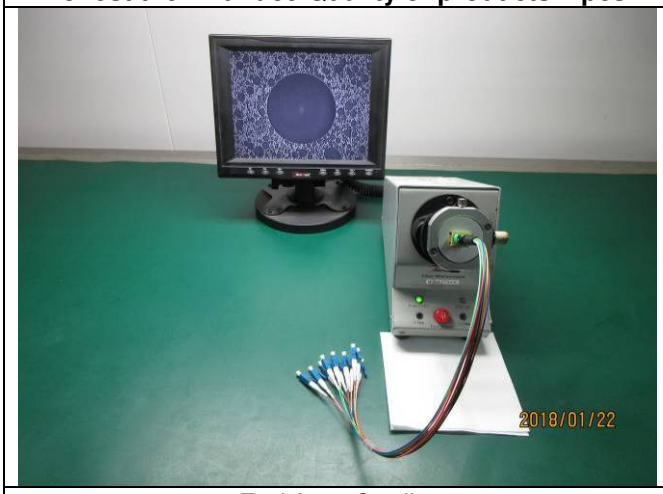
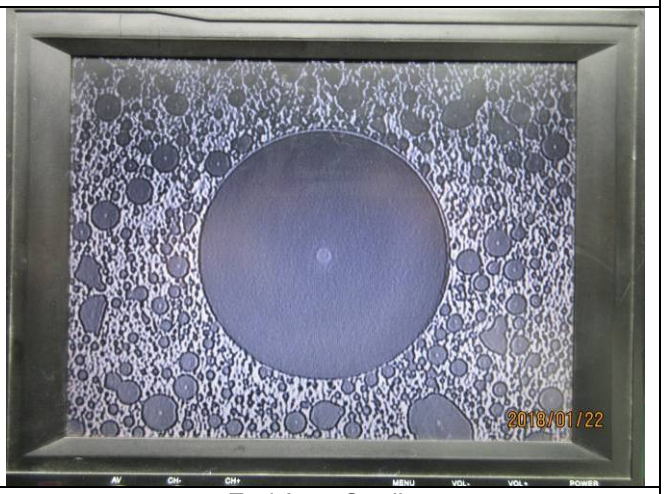
T10	
T11	

End-face Geometry Test result

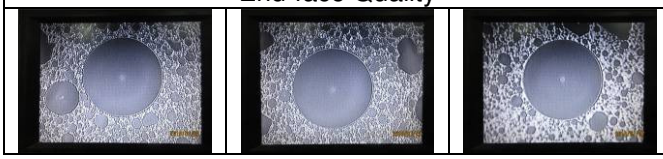
2.1.3Test the End-face Quality of products. 4pcs



End-face Quality



End-face Quality



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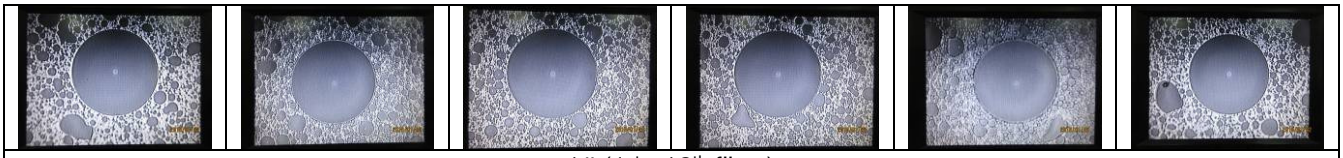
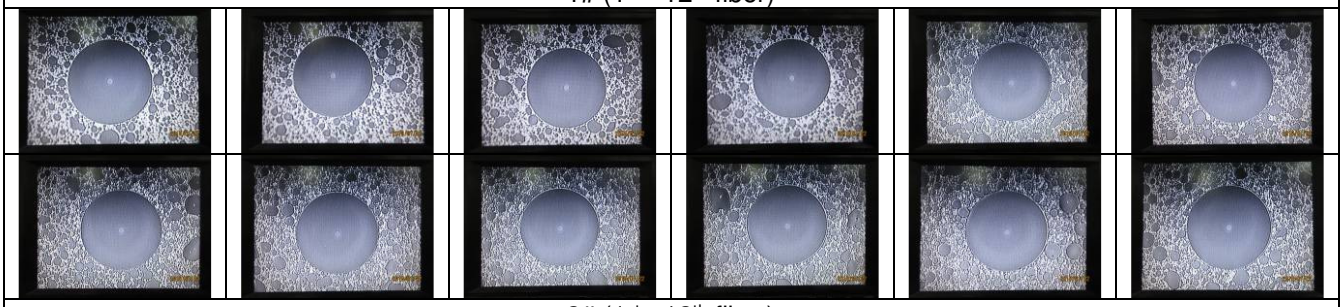
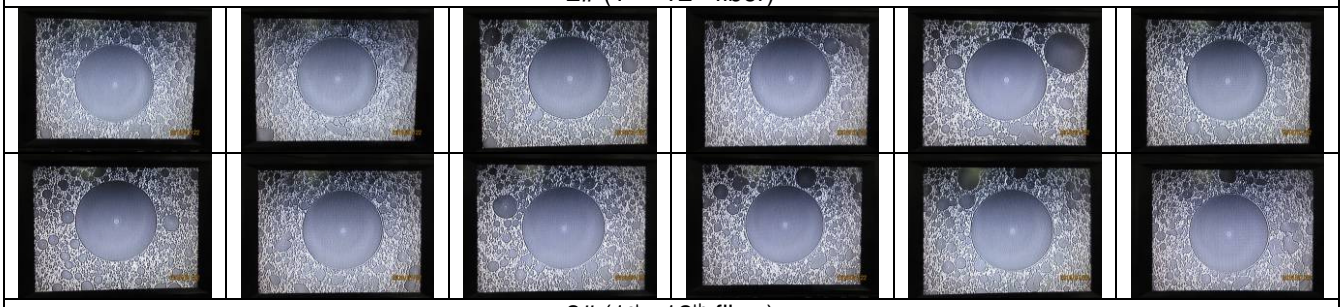


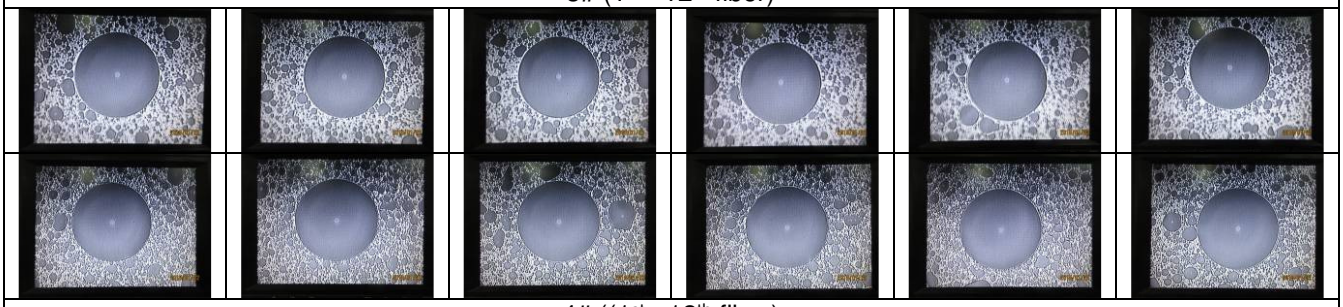
1# (1st ~12th fiber)



2# (1st ~12th fiber)



3# (1st ~12th fiber)



4# ((1st ~12th fiber)

All End-face Quality

Inspector: Zhenxing Peng Factory Representative:

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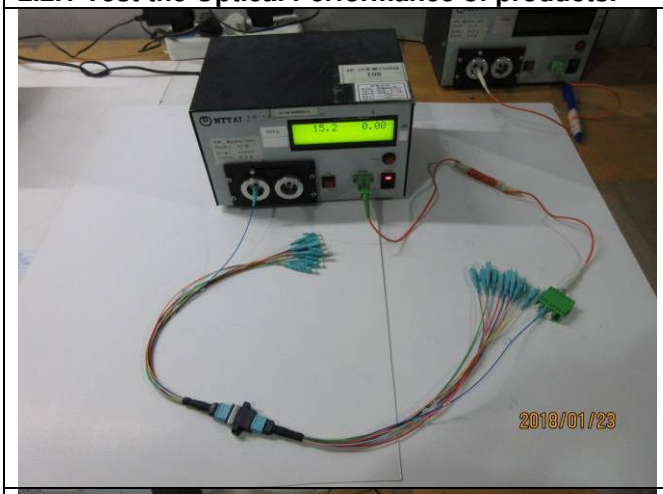
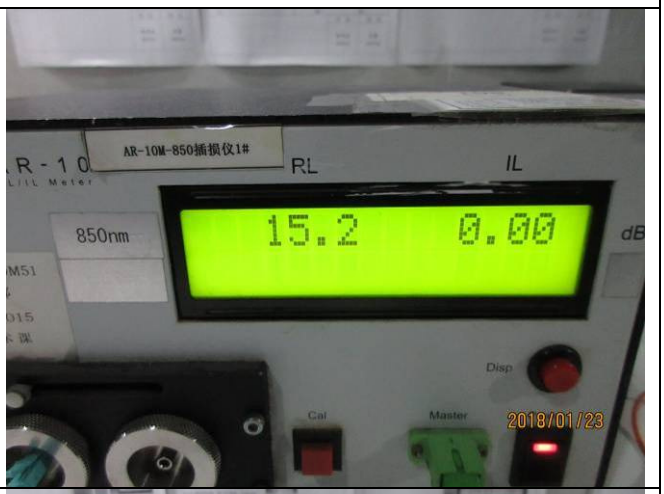
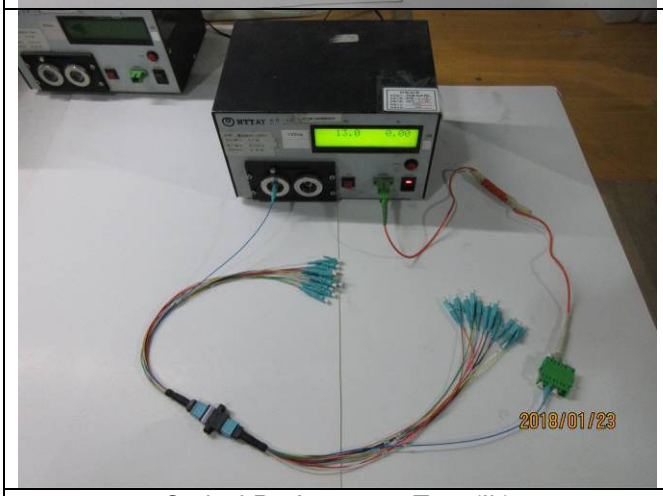
2.2 For item: MM MPO/UPC-LC Fanout 4pcs

2.2.1 Test the Optical Performance of products.

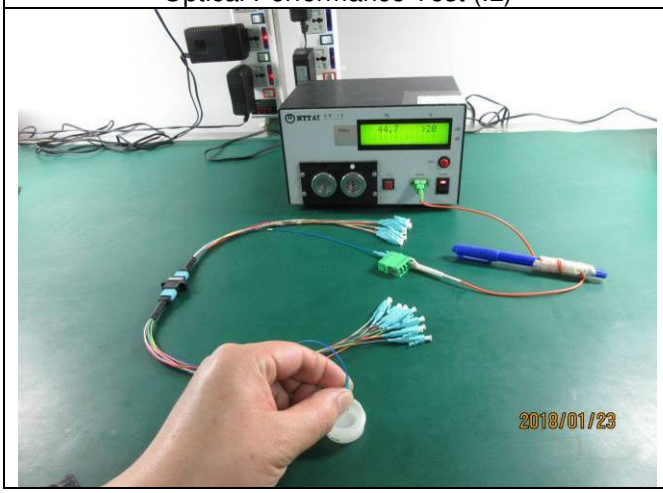


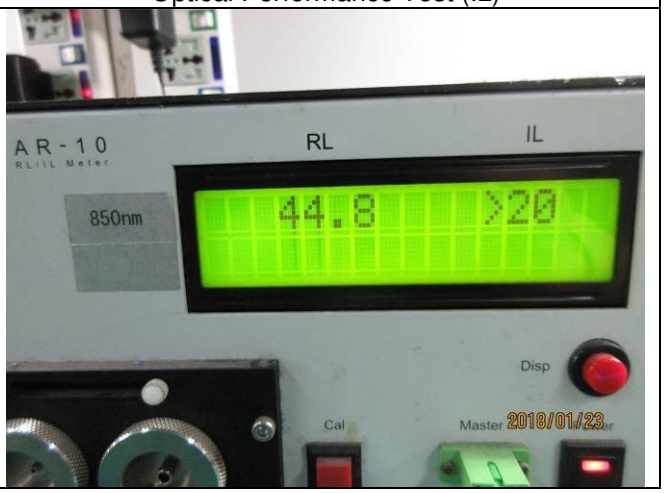




Optical Performance Test (IL)

Optical Performance Test (IL)





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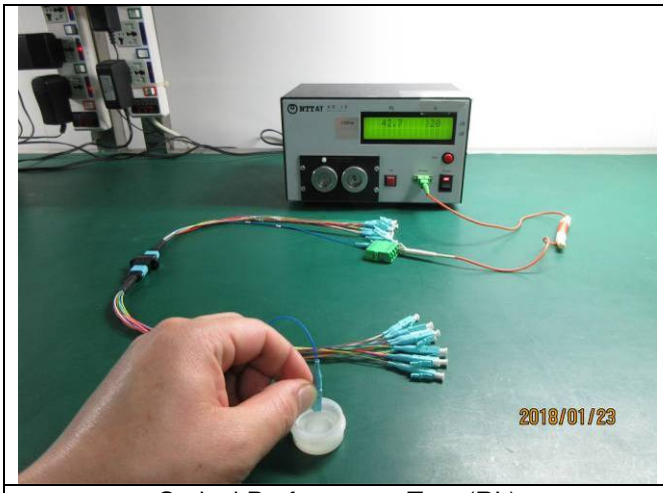

Optical Performance Test (RL)

Optical Performance Test (RL)

Channel		IL (dB)		RL (dB)	
		850nm	1300nm	850nm	1300nm
B-1	Channel 1	0.00	0.01	44.7	42.7
	Channel 2	0.00	0.01	44.7	42.7
	Channel 3	0.00	0.01	44.6	42.7
	Channel 4	0.00	0.00	44.7	42.5
	Channel 5	0.00	0.00	44.6	42.7
	Channel 6	0.01	0.00	44.6	42.6
	Channel 7	0.00	0.00	44.4	42.5
	Channel 8	0.00	0.01	44.7	42.4
	Channel 9	0.00	0.00	44.7	42.5
	Channel 10	0.00	0.01	44.6	42.7
	Channel 11	0.00	0.00	44.6	42.6
	Channel 12	0.00	0.00	44.7	42.7

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B-2	Channel 1	0.00	0.01	44.7	42.7
	Channel 2	0.01	0.00	44.7	42.7
	Channel 3	0.00	0.01	44.7	42.6
	Channel 4	0.01	0.00	44.7	42.5
	Channel 5	0.00	0.00	44.7	42.7
	Channel 6	0.00	0.00	44.6	42.6
	Channel 7	0.00	0.00	44.6	42.5
	Channel 8	0.00	0.01	44.8	42.4
	Channel 9	0.00	0.00	44.6	42.5
	Channel 10	0.01	0.01	44.6	42.7
	Channel 11	0.01	0.00	44.7	42.6
	Channel 12	0.02	0.00	44.7	42.7
B-3	Channel 1	0.00	0.00	44.6	42.7
	Channel 2	0.00	0.00	44.6	42.7
	Channel 3	0.00	0.00	44.7	42.7
	Channel 4	0.00	0.02	44.4	42.7
	Channel 5	0.00	0.00	44.1	42.7
	Channel 6	0.00	0.01	44.5	42.7
	Channel 7	0.00	0.00	44.1	42.7
	Channel 8	0.02	0.01	44.8	42.7
	Channel 9	0.01	0.00	44.9	42.6
	Channel 10	0.00	0.01	44.8	42.7
	Channel 11	0.01	0.00	44.7	42.7
	Channel 12	0.00	0.02	44.9	42.6

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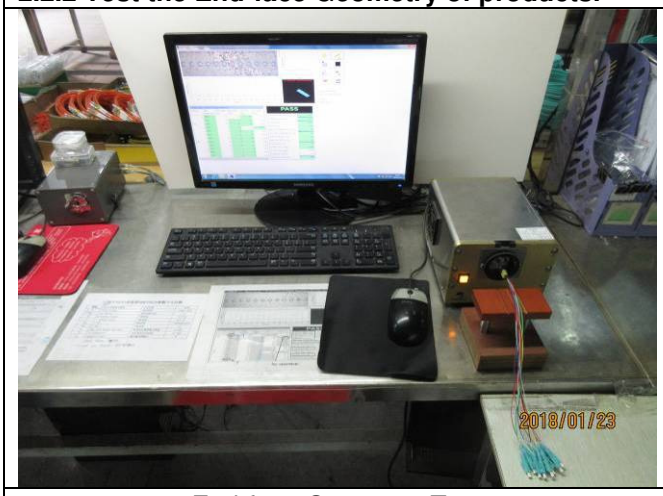
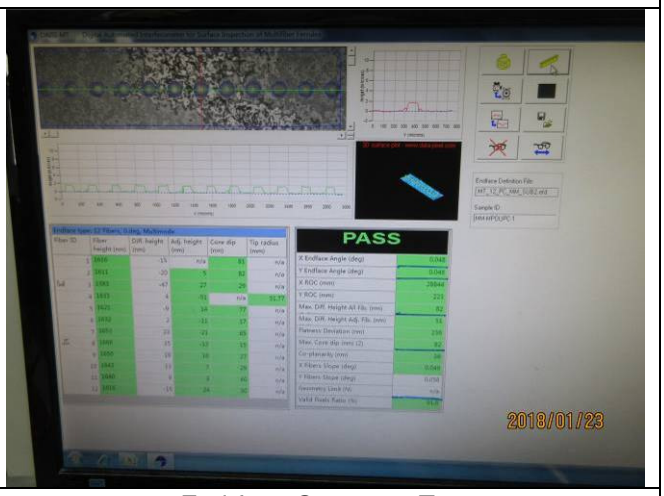
B-4	Channel 1	0.01	0.00	44.8	42.7
	Channel 2	0.00	0.00	44.8	42.6
	Channel 3	0.00	0.00	44.7	42.6
	Channel 4	0.00	0.00	44.1	42.5
	Channel 5	0.00	0.01	44.8	42.6
	Channel 6	0.01	0.00	44.9	42.5
	Channel 7	0.02	0.00	44.9	42.5
	Channel 8	0.00	0.02	44.8	42.7
	Channel 9	0.02	0.01	44.9	42.6
	Channel 10	0.01	0.02	44.8	42.6
	Channel 11	0.00	0.01	44.9	42.5
	Channel 12	0.00	0.01	44.9	42.6

MM MPO/UPC-LC Fanout test results

2.2.2 Test the End-face Geometry of products.



End-face Geometry Test



End-face Geometry Test

Inspector: Zhenxing Peng Factory Representative:

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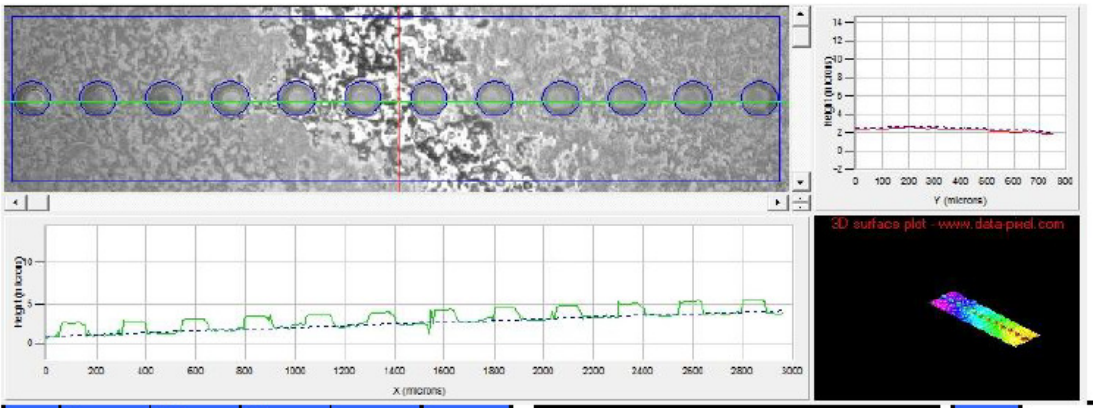
Ferrule Endface Geometry Measurement Report



Fiber #	Fiber Height (nm)	Diff. Height (nm)	Adj. Height (nm)	Core Dip (nm)	Tip radius (mm)
1	1619	-20	n/a	57	8.25
2	1614	-25	5	67	7.01
3	1590	-49	23	-6	26.87
4	1639	0	-49	-38	18.03
5	1628	-11	11	67	8.14
6	1639	0	-11	80	6.03
7	1663	24	-24	73	11.9
8	1676	38	-14	85	94.3
9	1662	23	14	73	5.78
10	1654	16	7	77	20.56
11	1653	14	1	83	4.15
12	1624	-15	28	93	11.05

PASS

X Endface Angle (°)	0.062
Y Endface Angle (°)	0.039
X Fibers Slope (°)	0.063
Y Fibers Slope (°)	0.052
X ROC (mm)	26267
Y ROC (mm)	220
Max. Diff. Height All Fib. (nm)	86
Max. Diff. Height Adj. Fib. (nm)	48
Flatness Deviation (nm)	245
Max. Core Dip (nm)	93
Co-planarity (nm)	35
Valid Pixels Ration (%)	91.7
Geometry Limit (N)	n/a
Endface Definition File	Sample ID
MT_12_PC_MM_SUB2.efd	MM-MPOUPC-1

T1	
Date	
T3	
SN #	
T5	
T6	
T7	
T8	
T9	
T10	
T11	

Inspector: Zhenxing Peng Factory Representative: _____

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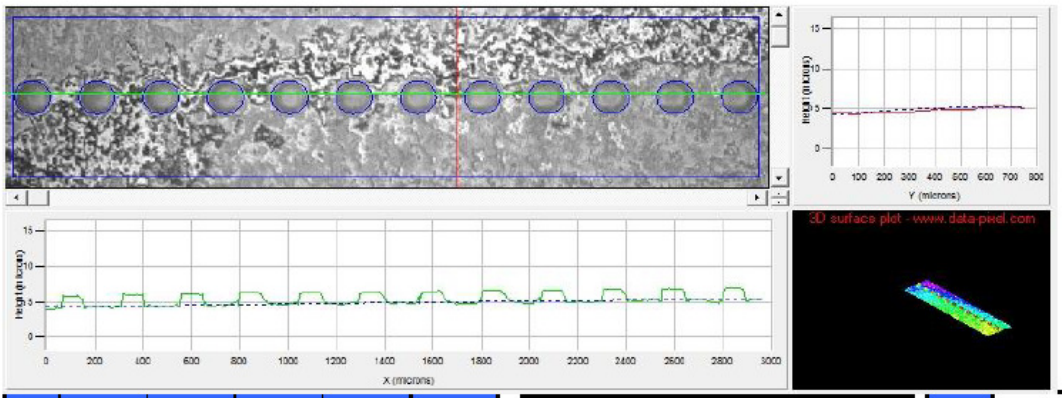
Ferrule Endface Geometry Measurement Report



Fiber #	Fiber Height (nm)	Diff. Height (nm)	Adj. Height (nm)	Core Dip (nm)	Tip radius (mm)
1	1586	-125	n/a	59	5.58
2	1678	-33	-93	52	4.29
3	1721	10	-43	0	16.15
4	1761	50	-41	-39	16.44
5	1767	56	-7	51	14.36
6	1743	31	24	55	29.28
7	1732	21	10	49	5.33
8	1750	39	-18	51	27.56
9	1692	-19	57	34	23.84
10	1698	-13	-6	90	14.04
11	1714	3	-17	56	6.83
12	1687	-24	27	45	19.33

PASS

X Endface Angle (°)	0.021
Y Endface Angle (°)	-0.028
X Fibers Slope (°)	0.022
Y Fibers Slope (°)	-0.054
X ROC (mm)	7615
Y ROC (mm)	226
Max. Diff. Height All Fib. (nm)	181
Max. Diff. Height Adj. Fib. (nm)	92
Flatness Deviation (nm)	282
Max. Core Dip (nm)	90
Co-planarity (nm)	107
Valid Pixels Ration (%)	91.8
Geometry Limit (N)	n/a
Endface Definition File	Sample ID
MT_12_PC_MM_SUB2.efd	MM-MPOUPC-2

T1	
Date	
T3	
SN #	
T5	
T6	
T7	
T8	
T9	
T10	
T11	

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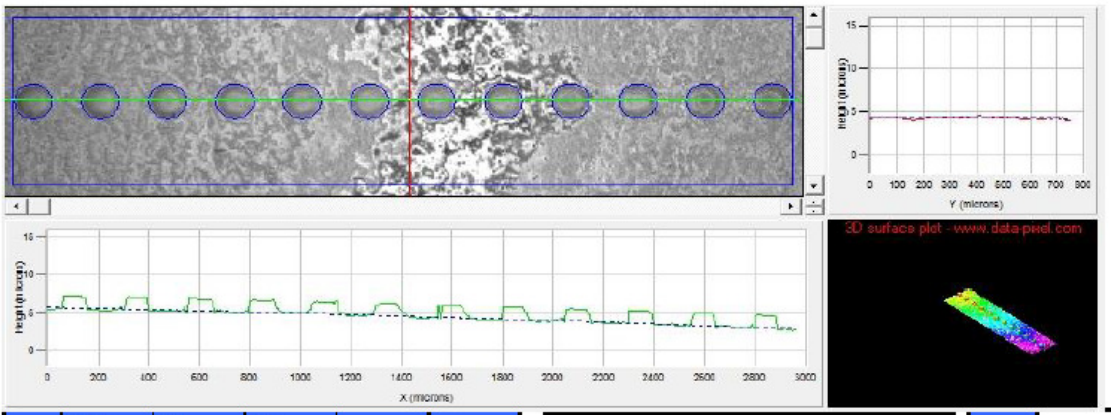
Ferrule Endface Geometry Measurement Report



Fiber #	Fiber Height (nm)	Diff. Height (nm)	Adj. Height (nm)	Core Dip (nm)	Tip radius (mm)
1	1596	-105	n/a	80	1215
2	1666	-35	-70	53	5.87
3	1652	-49	14	7	10.35
4	1701	0	-50	-11	31.96
5	1732	31	-31	40	26.33
6	1771	70	-39	67	20.37
7	1768	67	2	76	7.61
8	1773	72	-5	87	14.79
9	1743	42	29	96	10.99
10	1714	13	28	76	20.41
11	1675	-26	39	78	20.42
12	1616	-85	59	78	3.38

PASS

X Endface Angle (°)	-0.015
Y Endface Angle (°)	0.004
X Fibers Slope (°)	-0.054
Y Fibers Slope (°)	0.021
X ROC (mm)	5329
Y ROC (mm)	244
Max. Diff. Height All Fib. (nm)	176
Max. Diff. Height Adj. Fib. (nm)	69
Flatness Deviation (nm)	294
Max. Core Dip (nm)	96
Co-planarity (nm)	105
Valid Pixels Ration (%)	91.8
Geometry Limit (N)	n/a
Endface Definition File	Sample ID
MT_12_PC_MM_SUB2.efd	MM-MPOUPC-3

T1	
Date	
T3	
SN #	
T5	
T6	
T7	
T8	
T9	
T10	
T11	

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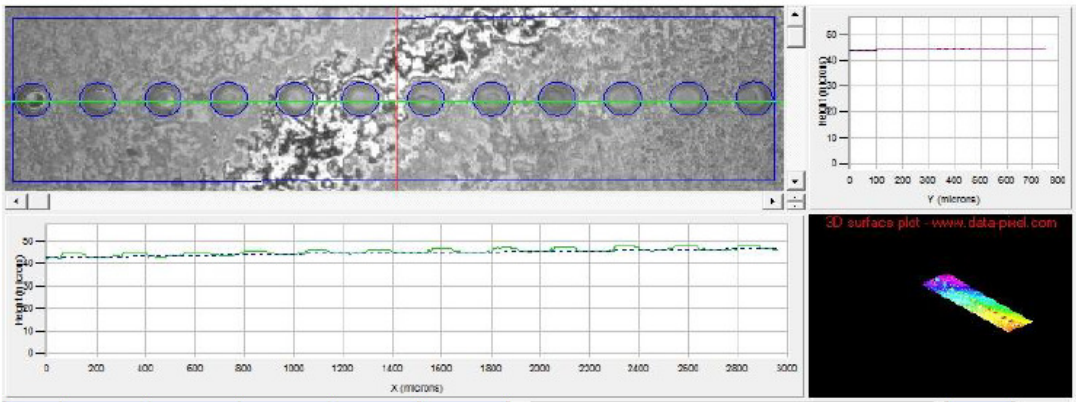
Ferrule Endface Geometry Measurement Report



Fiber #	Fiber Height (nm)	Diff. Height (nm)	Adj. Height (nm)	Core Dip (nm)	Tip radius (mm)
1	1645	-115	n/a	55	5.43
2	1702	-58	-58	84	5.71
3	1741	-19	-40	30	9.03
4	1794	34	-53	-29	16.39
5	1817	57	-24	68	12.96
6	1815	55	1	61	2.34
7	1809	49	6	52	4.91
8	1818	58	-9	98	4.86
9	1782	22	35	79	2.56
10	1759	-1	22	97	5.52
11	1755	-5	4	93	4.62
12	1675	-85	80	92	8.52

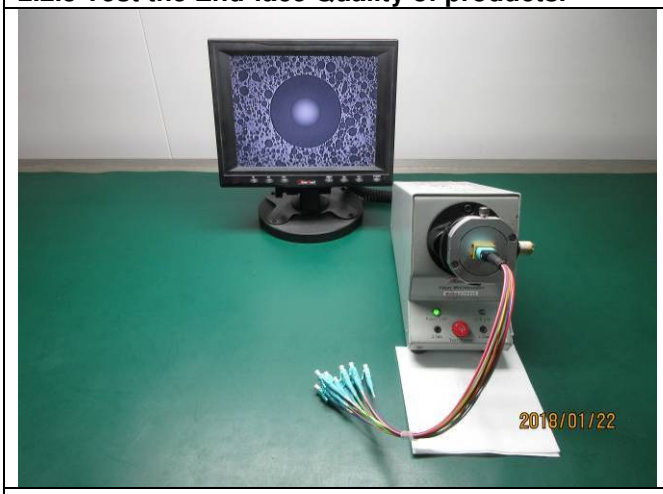
PASS

X Endface Angle (°)	0.019
Y Endface Angle (°)	-0.022
X Fibers Slope (°)	0.08
Y Fibers Slope (°)	-0.085
X ROC (mm)	5267
Y ROC (mm)	246
Max. Diff. Height All Fib. (nm)	172
Max. Diff. Height Adj. Fib. (nm)	80
Flatness Deviation (nm)	292
Max. Core Dip (nm)	98
Co-planarity (nm)	103
Valid Pixels Ration (%)	91.5
Geometry Limit (N)	n/a
Endface Definition File	Sample ID
MT_12_PC_MM_SUB2.efd	MM-MPOUPC-4

T1	
Date	
T3	
SN #	
T5	
T6	
T7	
T8	
T9	
T10	
T11	

End-face Geometry Test result

2.2.3 Test the End-face Quality of products.



End-face Quality

End-face Quality

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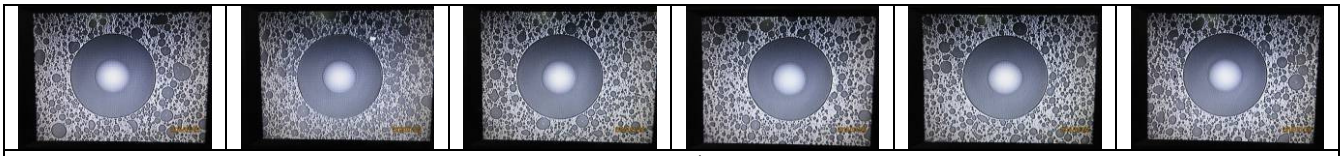
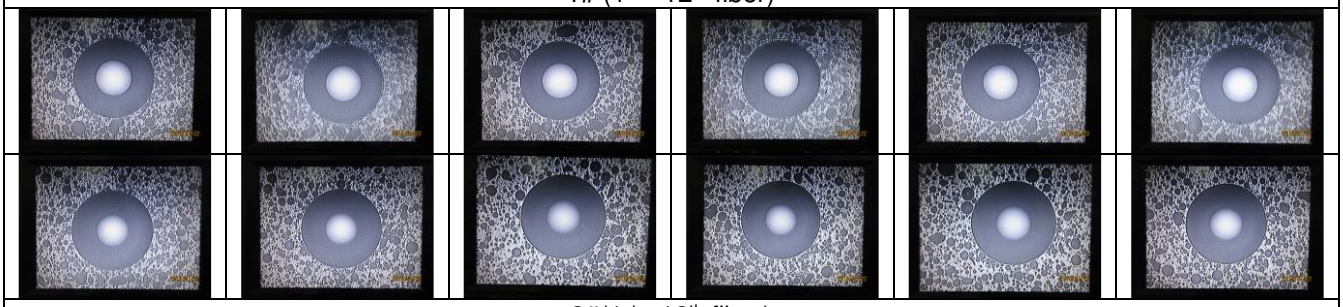
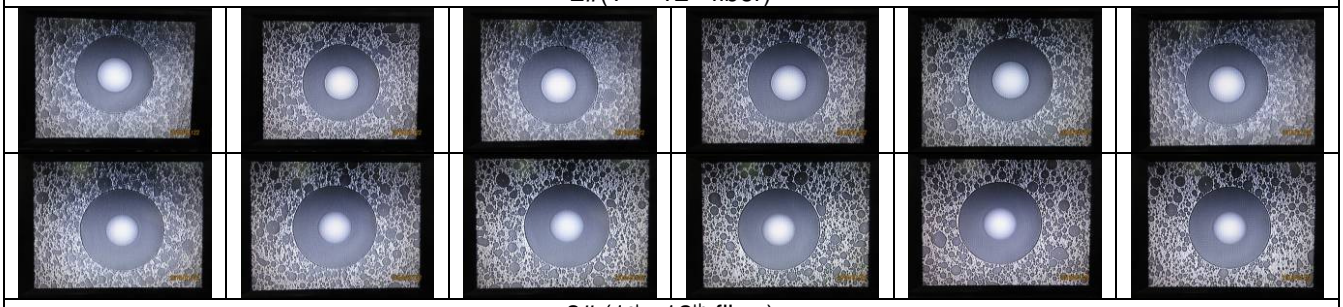


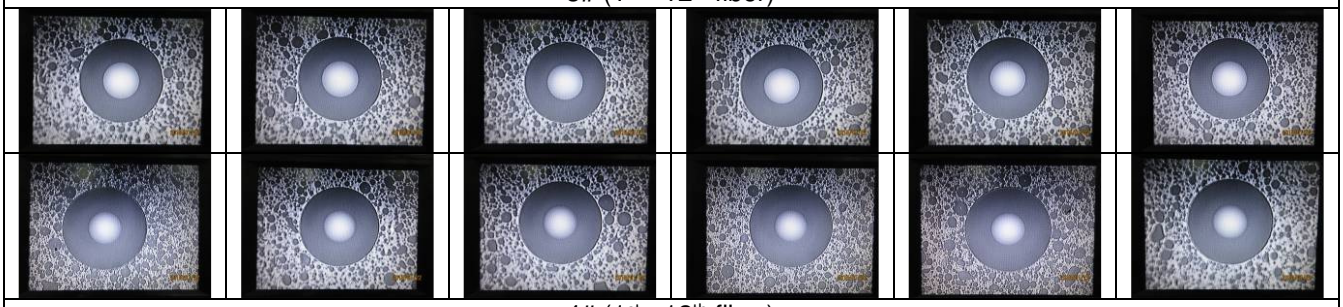
1# (1st ~12th fiber)



2#(1st ~12th fiber)



3# (1st ~12th fiber)



4# (1st ~12th fiber)

All End-face Quality

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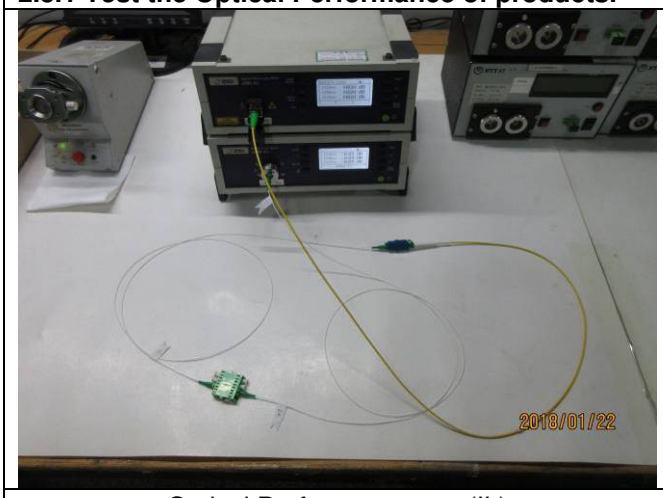
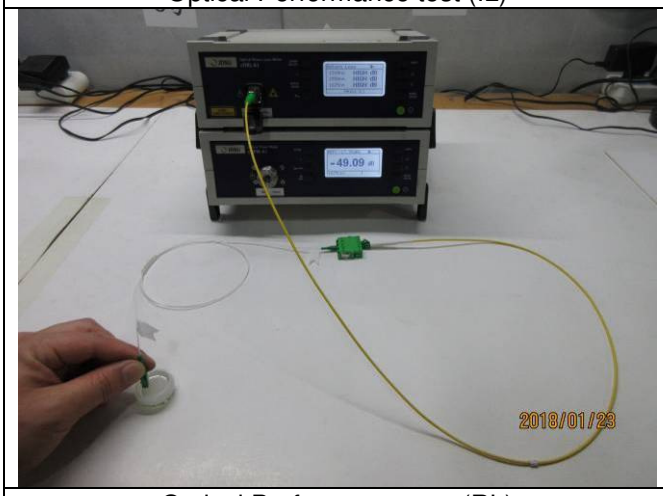
2.3 For item: LC/APC Jumper 10pcs	
2.3.1 Test the Optical Performance of products.	
	
Optical Performance test (IL)	Optical Performance test (IL)
	
Optical Performance test (RL)	Optical Performance test (RL)

Inspector: Zhenxing Peng Factory Representative:

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Channel		1		2		3		4		5		6		7		8		9		10	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
		1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm
1	A			0.06	0.05	0.02	0.03	0.04	0.04	0.01	0.03	0.07	0.00	0.07	0.10	0.06	0.04	0.08	0.04	0.01	0.09
	B			0.07	0.02	0.03	0.03	0.01	0.04	0.04	0.00	0.05	0.04	0.03	0.02	0.01	0.07	0.06	0.06	0.02	0.03
2	A	0.02	0.00			0.02	0.04	0.01	0.04	0.06	0.05	0.05	0.05	0.08	0.03	0.07	0.05	0.07	0.06	0.07	0.06
	B	0.05	0.05			0.03	0.03	0.02	0.03	0.06	0.08	0.09	0.05	0.06	0.05	0.07	0.03	0.02	0.02	0.03	0.03
3	A	0.06	0.03	0.04	0.08			0.04	0.03	0.07	0.06	0.11	0.01	0.05	0.06	0.07	0.05	0.05	0.05	0.01	0.01
	B	0.03	0.04	0.07	0.08			0.03	0.04	0.04	0.04	0.05	0.08	0.08	0.11	0.09	0.05	0.04	0.04	0.06	0.08
4	A	0.10	0.06	0.03	0.09	0.10	0.08			0.03	0.02	0.12	0.03	0.02	0.01	0.08	0.04	0.03	0.03	0.00	0.03
	B	0.09	0.03	0.06	0.06	0.07	0.06			0.05	0.06	0.09	0.06	0.08	0.06	0.01	0.02	0.11	0.03	0.03	0.04
5	A	0.05	0.06	0.01	0.05	0.04	0.03	0.05	0.02			0.02	0.01	0.10	0.07	0.07	0.03	0.09	0.01	0.04	0.02
	B	0.05	0.04	0.07	0.04	0.05	0.04	0.06	0.07			0.11	0.06	0.05	0.03	0.09	0.04	0.05	0.04	0.05	0.05
6	A	0.03	0.11	0.12	0.08	0.07	0.03	0.08	0.07	0.07	0.07			0.08	0.07	0.08	0.02	0.08	0.02	0.09	0.04
	B	0.02	0.03	0.07	0.06	0.09	0.08	0.03	0.05	0.02	0.03			0.04	0.03	0.08	0.08	0.07	0.05	0.04	0.03
7	A	0.09	0.06	0.03	0.07	0.08	0.09	0.02	0.02	0.01	0.03	0.03	0.00			0.09	0.08	0.07	0.08	0.06	0.05
	B	0.07	0.03	0.07	0.07	0.12	0.08	0.09	0.03	0.04	0.06	0.02	0.02			0.11	0.06	0.10	0.09	0.03	0.09
8	A	0.03	0.04	0.08	0.09	0.03	0.04	0.03	0.05	0.05	0.03	0.10	0.08	0.05	0.06			0.07	0.11	0.07	0.06
	B	0.01	0.02	0.09	0.10	0.04	0.02	0.04	0.02	0.00	0.02	0.02	0.03	0.06	0.05			0.05	0.06	0.08	0.08
9	A	0.06	0.07	0.05	0.05	0.05	0.06	0.03	0.04	0.09	0.06	0.02	0.03	0.08	0.09	0.03	0.05			0.09	0.03
	B	0.01	0.02	0.06	0.03	0.03	0.03	0.01	0.02	0.08	0.05	0.08	0.04	0.07	0.06	0.04	0.04			0.08	0.02
10	A	0.07	0.02	0.03	0.08	0.06	0.07	0.02	0.03	0.06	0.04	0.05	0.10	0.03	0.04	0.03	0.02	0.06	0.04		
	B	0.02	0.02	0.01	0.02	0.08	0.07	0.02	0.01	0.05	0.03	0.02	0.04	0.05	0.01	0.05	0.03	0.03	0.02		

Channel		1		2		3		4		5		6		7		8		9		10	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
		1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm
1	A			0.06	0.05	0.04	0.04	0.04	0.05	0.02	0.04	0.05	0.02	0.05	0.08	0.03	0.01	0.08	0.06	0.04	0.09
	B			0.05	0.03	0.04	0.03	0.02	0.05	0.04	0.00	0.06	0.06	0.04	0.01	0.01	0.07	0.04	0.03	0.02	0.03
2	A	0.00	0.00			0.06	0.04	0.02	0.05	0.06	0.02	0.04	0.06	0.06	0.03	0.07	0.03	0.04	0.04	0.06	0.03
	B	0.06	0.07			0.03	0.02	0.01	0.02	0.06	0.07	0.07	0.04	0.06	0.04	0.07	0.04	0.00	0.00	0.01	0.02
3	A	0.07	0.09	0.07	0.09			0.03	0.02	0.05	0.05	0.10	0.02	0.02	0.01	0.06	0.07	0.06	0.06	0.03	0.04
	B	0.03	0.04	0.05	0.06			0.06	0.05	0.04	0.04	0.06	0.08	0.08	0.09	0.08	0.04	0.03	0.03	0.05	0.07
4	A	0.04	0.00	0.05	0.03	0.08	0.07			0.03	0.02	0.06	0.04	0.02	0.01	0.05	0.05	0.01	0.02	0.02	0.03
	B	0.05	0.02	0.08	0.07	0.07	0.03			0.03	0.04	0.08	0.06	0.07	0.05	0.01	0.03	0.08	0.04	0.00	0.01
5	A	0.01	0.07	0.04	0.01	0.02	0.05	0.00	0.03			0.00	0.00	0.10	0.07	0.07	0.02	0.09	0.01	0.04	0.02
	B	0.03	0.03	0.05	0.02	0.03	0.07	0.03	0.09			0.08	0.05	0.02	0.01	0.06	0.04	0.03	0.02	0.03	0.04
6	A	0.04	0.08	0.10	0.09	0.04	0.02	0.06	0.06	0.05	0.05			0.07	0.05	0.09	0.03	0.08	0.03	0.11	0.07
	B	0.00	0.04	0.06	0.07	0.07	0.07	0.00	0.06	0.05	0.01			0.01	0.00	0.03	0.03	0.07	0.04	0.00	0.01
7	A	0.06	0.04	0.07	0.04	0.04	0.05	0.02	0.00	0.03	0.04	0.03	0.00			0.06	0.06	0.04	0.05	0.01	0.00
	B	0.08	0.04	0.05	0.02	0.11	0.07	0.08	0.04	0.02	0.02	0.00	0.03			0.07	0.05	0.07	0.07	0.05	0.05
8	A	0.02	0.05	0.05	0.04	0.01	0.05	0.04	0.02	0.02	0.05	0.07	0.06	0.02	0.01			0.08	0.08	0.05	0.05
	B	0.01	0.03	0.06	0.08	0.01	0.03	0.01	0.02	0.01	0.05	0.00	0.02	0.01	0.03			0.02	0.04	0.07	0.06
9	A	0.03	0.04	0.04	0.03	0.05	0.04	0.01	0.00	0.06	0.05	0.01	0.02	0.06	0.10	0.06	0.04			0.03	0.05
	B	0.02	0.01	0.04	0.04	0.02	0.04	0.01	0.01	0.02	0.06	0.05	0.05	0.07	0.06	0.03	0.03			0.08	0.01
10	A	0.09	0.00	0.05	0.05	0.02	0.02	0.02	0.03	0.05	0.01	0.04	0.06	0.02	0.02	0.01	0.03	0.03	0.03		
	B	0.01	0.00	0.00	0.02	0.03	0.04	0.01	0.02	0.02	0.01	0.02	0.05	0.02	0.03	0.01	0.02	0.01	0.03		

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Channel		1		2		3		4		5		6		7		8		9		10	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
		1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm
1	A			0.05	0.06	0.02	0.03	0.04	0.06	0.03	0.05	0.08	0.04	0.07	0.07	0.04	0.03	0.09	0.07	0.07	0.10
	B			0.04	0.04	0.04	0.02	0.04	0.08	0.04	0.01	0.07	0.09	0.08	0.01	0.02	0.09	0.04	0.04	0.05	0.07
2	A	0.03	0.02			0.06	0.06	0.05	0.10	0.06	0.03	0.06	0.07	0.07	0.07	0.06	0.06	0.07	0.05	0.05	0.04
	B	0.05	0.07			0.06	0.07	0.04	0.06	0.08	0.10	0.06	0.04	0.08	0.07	0.08	0.02	0.08	0.03	0.05	0.04
3	A	0.04	0.08	0.08	0.09			0.06	0.05	0.06	0.05	0.12	0.04	0.07	0.07	0.06	0.06	0.06	0.04	0.02	0.03
	B	0.01	0.02	0.05	0.04			0.02	0.02	0.02	0.03	0.04	0.08	0.06	0.10	0.08	0.03	0.02	0.01	0.04	0.08
4	A	0.03	0.01	0.06	0.02	0.05	0.02			0.02	0.01	0.05	0.02	0.02	0.03	0.03	0.02	0.04	0.02	0.04	0.04
	B	0.04	0.06	0.12	0.08	0.06	0.04			0.02	0.03	0.11	0.04	0.06	0.04	0.02	0.06	0.09	0.03	0.00	0.00
5	A	0.04	0.06	0.03	0.04	0.05	0.06	0.04	0.02			0.01	0.00	0.08	0.06	0.08	0.02	0.10	0.03	0.03	0.01
	B	0.05	0.04	0.06	0.05	0.05	0.05	0.06	0.08			0.12	0.04	0.03	0.00	0.07	0.03	0.03	0.03	0.03	0.04
6	A	0.05	0.07	0.09	0.08	0.06	0.03	0.08	0.05	0.08	0.06			0.06	0.11	0.10	0.04	0.09	0.04	0.08	0.08
	B	0.04	0.05	0.03	0.07	0.10	0.06	0.04	0.03	0.04	0.03			0.01	0.02	0.04	0.03	0.09	0.03	0.06	0.02
7	A	0.12	0.03	0.06	0.06	0.07	0.06	0.04	0.03	0.02	0.03	0.04	0.03			0.05	0.05	0.04	0.04	0.03	0.02
	B	0.09	0.06	0.06	0.04	0.06	0.04	0.06	0.04	0.04	0.05	0.03	0.01			0.10	0.03	0.09	0.06	0.05	0.04
8	A	0.02	0.06	0.03	0.04	0.02	0.03	0.06	0.01	0.01	0.04	0.08	0.05	0.04	0.03			0.06	0.07	0.08	0.06
	B	0.03	0.02	0.06	0.07	0.03	0.04	0.03	0.03	0.06	0.03	0.01	0.01	0.04	0.04			0.06	0.03	0.07	0.05
9	A	0.04	0.10	0.06	0.06	0.04	0.09	0.03	0.08	0.09	0.06	0.00	0.03	0.07	0.11	0.07	0.06			0.05	0.07
	B	0.03	0.04	0.04	0.05	0.05	0.03	0.02	0.05	0.10	0.04	0.02	0.03	0.05	0.04	0.03	0.04			0.05	0.03
10	A	0.02	0.01	0.00	0.05	0.06	0.08	0.05	0.05	0.06	0.05	0.04	0.08	0.01	0.05	0.02	0.04	0.02	0.03		
	B	0.03	0.04	0.03	0.04	0.08	0.05	0.04	0.01	0.06	0.02	0.05	0.08	0.05	0.02	0.03	0.06	0.03	0.01		

LC/APC Jumper random mated insertion loss test results

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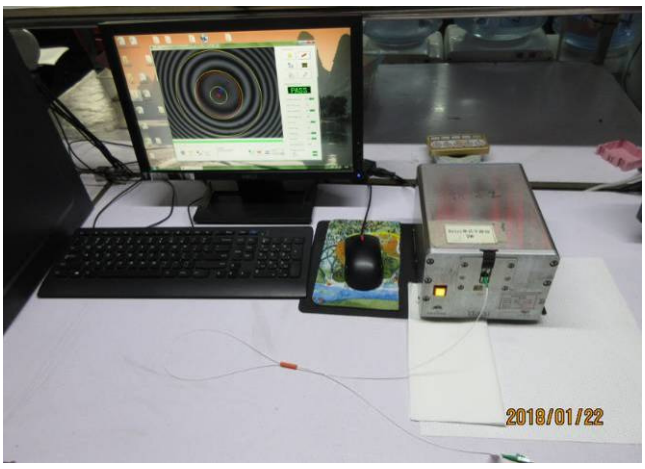
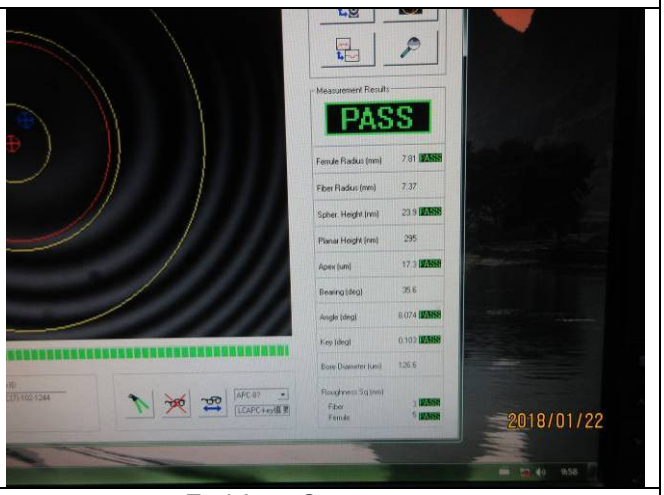
LC/APC				
Channel		1310nm	1550nm	1625nm
1	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
2	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
3	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
4	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
5	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
6	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
7	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
8	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
9	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
10	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH

LC/APC Jumper Return loss test results

2.3.2 Test the End-face Geometry of products.



End-face Geometry test



End-face Geometry test

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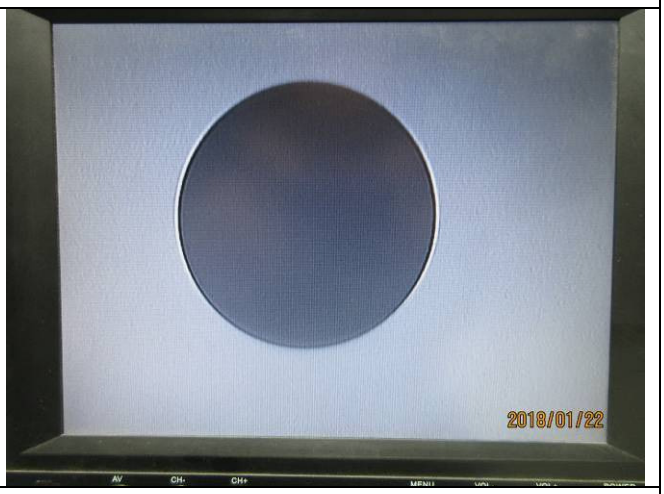
Sample		Passed or Failed	Ferrule Radius of Curv. (mm)	Spherical Fiber Height (nm)	Apex Offset (um)	Angle Error (deg)	Key Error (deg)	Date
ID	Type							
LCAPC-20	APC	PASS	7.71	19.6	17.5	8.115	-0.060	20180122 104740
LCAPC-19	APC	PASS	8.29	23.7	11.8	8.075	-0.034	20180122 104725
LCAPC-18	APC	PASS	7.33	27.7	12.0	8.086	-0.037	20180122 104706
LCAPC-17	APC	PASS	7.01	26.6	8.5	8.026	0.065	20180122 104657
LCAPC-16	APC	PASS	7.44	24.9	6.1	8.038	-0.027	20180122 104634
LCAPC-15	APC	PASS	7.37	28.7	7.8	8.034	0.050	20180122 104620
LCAPC-14	APC	PASS	7.95	19.9	11.0	8.050	0.062	20180122 104600
LCAPC-13	APC	PASS	8.13	24.6	21.5	8.060	-0.139	20180122 104539
LCAPC-12	APC	PASS	7.46	20.1	12.2	7.908	-0.019	20180122 104520
LCAPC-11	APC	PASS	7.32	21.7	12.1	8.004	0.094	20180122 104505
LCAPC-10	APC	PASS	7.12	21.2	12.5	8.017	-0.099	20180122 104447
LCAPC-9	APC	PASS	7.37	18.5	13.8	8.082	-0.069	20180122 104428
LCAPC-8	APC	PASS	7.33	22.7	24.3	7.854	-0.122	20180122 104404
LCAPC-7	APC	PASS	7.50	27.3	21.4	8.045	0.157	20180122 104328
LCAPC-6	APC	PASS	7.49	23.5	3.7	8.009	-0.027	20180122 104233
LCAPC-5	APC	PASS	7.99	19.9	0.5	8.003	-0.001	20180122 104221
LCAPC-4	APC	PASS	7.83	23.8	10.0	8.071	0.017	20180122 104202
LCAPC-3	APC	PASS	8.05	27.4	16.8	8.050	-0.108	20180122 104142
LCAPC-2	APC	PASS	8.11	20.1	17.0	7.967	-0.115	20180122 104122
LCAPC-1	APC	PASS	7.99	25.2	16.8	8.099	-0.068	20180122 104051
Number of Samples:		20	20	20	20	20	20	
Minimum:			7.01	18.5	0.5	7.854	-0.139	
Maximum:			8.29	28.7	24.3	8.115	0.157	
Mean:			7.64	23.4	12.9	8.030	-0.024	
standard Deviation			0.36	3.1	5.9	0.061	0.077	
Percentage Passed:		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

End-face Geometry Test result

2.3.3 Test the End-face Quality of products.

End-face Quality



End-face Quality

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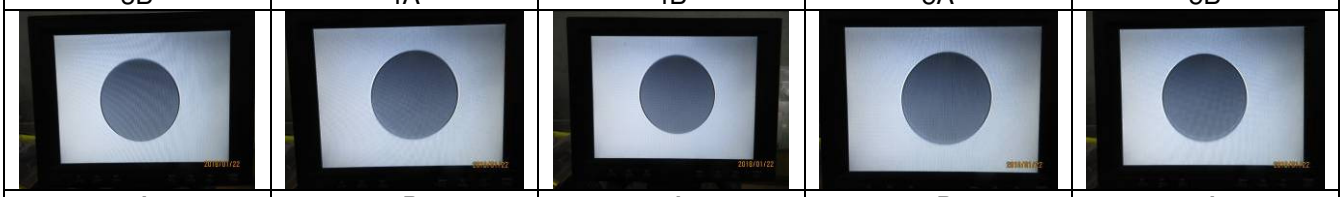
End-face Quality	End-face Quality

1A	1B	2A	2B	3A

3B	4A	4B	5A	5B



6A	6B	7A	7B	8A

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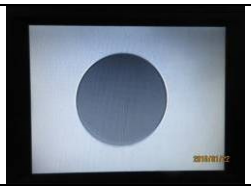
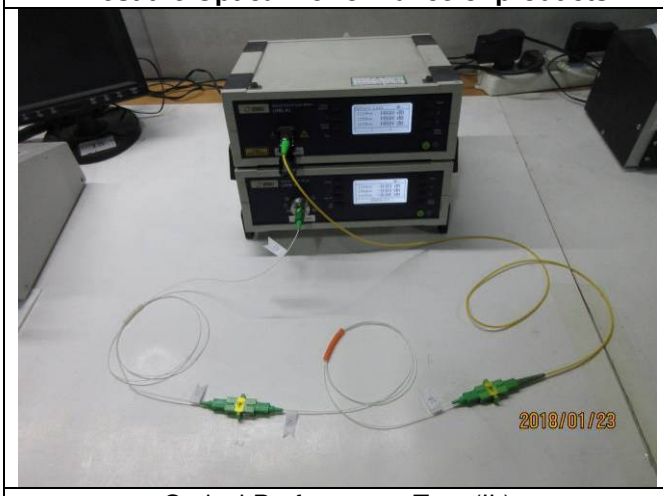
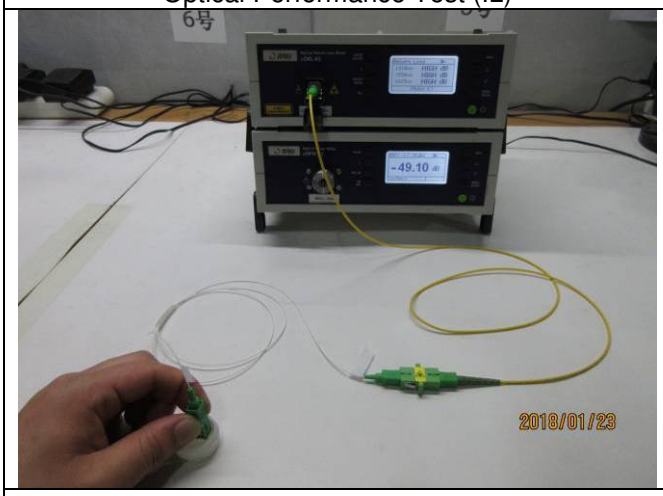
				
8B	9A	9B	10A	10B
All End-face Quality				

2.4 For item: SC/APC Jumper 10pcs	
2.4.1 Test the Optical Performance of products.	
	
Optical Performance Test (IL)	Optical Performance Test (IL)
	
Optical Performance Test (RL)	Optical Performance Test (RL)

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Channel		1		2		3		4		5		6		7		8		9		10	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
		1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm	1310nm
1	A			0.05	0.06	0.04	0.04	0.03	0.02	0.03	0.03	0.01	0.01	0.09	0.05	0.05	0.05	0.05	0.01	0.07	0.02
	B			0.05	0.03	0.07	0.04	0.04	0.08	0.02	0.01	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.01	0.05	0.06
2	A	0.04	0.05			0.05	0.04	0.02	0.05	0.08	0.05	0.03	0.03	0.02	0.05	0.03	0.09	0.07	0.05	0.05	0.05
	B	0.06	0.08			0.08	0.07	0.06	0.11	0.04	0.03	0.04	0.03	0.02	0.05	0.04	0.07	0.05	0.06	0.06	0.07
3	A	0.04	0.04	0.05	0.06			0.12	0.06	0.05	0.06	0.06	0.06	0.09	0.11	0.08	0.05	0.03	0.07	0.07	0.12
	B	0.07	0.05	0.04	0.06			0.05	0.04	0.07	0.08	0.06	0.04	0.06	0.03	0.03	0.04	0.03	0.04	0.05	0.08
4	A	0.06	0.04	0.10	0.08	0.02	0.02			0.05	0.04	0.05	0.11	0.03	0.03	0.02	0.07	0.11	0.05	0.11	0.08
	B	0.08	0.04	0.08	0.08	0.08	0.07			0.03	0.05	0.03	0.04	0.07	0.04	0.07	0.06	0.05	0.05	0.02	0.02
5	A	0.04	0.04	0.04	0.06	0.04	0.01	0.02	0.02			0.04	0.03	0.06	0.07	0.06	0.05	0.05	0.05	0.03	0.05
	B	0.04	0.02	0.02	0.00	0.01	0.01	0.04	0.05			0.07	0.07	0.07	0.06	0.10	0.02	0.04	0.05	0.09	0.01
6	A	0.06	0.04	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.03			0.12	0.04	0.04	0.04	0.04	0.08	0.04	0.08
	B	0.03	0.06	0.02	0.04	0.03	0.05	0.01	0.02	0.03	0.02			0.06	0.07	0.04	0.04	0.06	0.06	0.04	0.03
7	A	0.03	0.01	0.02	0.03	0.07	0.10	0.02	0.02	0.04	0.02	0.07	0.06			0.02	0.03	0.01	0.02	0.05	0.04
	B	0.04	0.04	0.05	0.03	0.02	0.01	0.05	0.03	0.02	0.03	0.02	0.08			0.09	0.07	0.06	0.06	0.07	0.07
8	A	0.03	0.00	0.03	0.02	0.05	0.04	0.04	0.03	0.01	0.01	0.00	0.02	0.10	0.11			0.05	0.06	0.04	0.03
	B	0.04	0.04	0.04	0.03	0.02	0.06	0.05	0.04	0.03	0.02	0.01	0.04	0.03	0.02			0.04	0.05	0.03	0.05
9	A	0.02	0.03	0.06	0.04	0.03	0.02	0.03	0.03	0.02	0.03	0.03	0.02	0.03	0.08	0.08	0.09			0.03	0.04
	B	0.03	0.04	0.01	0.01	0.03	0.02	0.08	0.07	0.06	0.00	0.04	0.03	0.03	0.04	0.03	0.08			0.04	0.05
10	A	0.05	0.04	0.03	0.03	0.06	0.04	0.04	0.02	0.08	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.06	0.04		
	B	0.03	0.02	0.05	0.05	0.07	0.07	0.04	0.04	0.05	0.07	0.04	0.03	0.08	0.02	0.06	0.04	0.04	0.04		

Channel		1		2		3		4		5		6		7		8		9		10	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
		1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm	1550nm
1	A			0.03	0.03	0.01	0.02	0.03	0.02	0.03	0.02	0.00	0.00	0.07	0.04	0.05	0.01	0.00	0.01	0.01	0.02
	B			0.05	0.01	0.07	0.04	0.07	0.07	0.03	0.00	0.05	0.06	0.07	0.04	0.08	0.04	0.05	0.02	0.05	0.06
2	A	0.03	0.07			0.05	0.03	0.03	0.07	0.07	0.06	0.05	0.05	0.02	0.04	0.04	0.12	0.09	0.03	0.08	0.06
	B	0.04	0.07			0.06	0.05	0.04	0.10	0.05	0.02	0.05	0.03	0.04	0.04	0.03	0.07	0.05	0.07	0.06	0.05
3	A	0.05	0.06	0.05	0.07			0.07	0.03	0.02	0.03	0.05	0.05	0.02	0.09	0.09	0.01	0.02	0.04	0.05	0.10
	B	0.08	0.07	0.05	0.07			0.06	0.06	0.03	0.03	0.05	0.05	0.09	0.04	0.06	0.06	0.04	0.04	0.05	0.07
4	A	0.03	0.05	0.09	0.08	0.06	0.05			0.07	0.03	0.06	0.11	0.02	0.02	0.03	0.11	0.11	0.06	0.12	0.07
	B	0.03	0.04	0.07	0.07	0.07	0.05			0.04	0.05	0.01	0.00	0.03	0.05	0.03	0.08	0.06	0.07	0.04	0.04
5	A	0.03	0.07	0.05	0.06	0.06	0.01	0.03	0.04			0.05	0.04	0.06	0.06	0.10	0.04	0.01	0.01	0.00	0.01
	B	0.01	0.00	0.05	0.05	0.02	0.02	0.04	0.05			0.06	0.02	0.04	0.03	0.08	0.00	0.04	0.03	0.09	0.02
6	A	0.04	0.01	0.02	0.01	0.02	0.01	0.03	0.02	0.05	0.04			0.11	0.01	0.05	0.04	0.05	0.08	0.03	0.09
	B	0.04	0.04	0.02	0.01	0.01	0.06	0.02	0.03	0.02	0.03			0.07	0.06	0.04	0.04	0.06	0.05	0.04	0.05
7	A	0.05	0.03	0.02	0.05	0.08	0.12	0.01	0.01	0.04	0.01	0.08	0.05			0.02	0.03	0.00	0.01	0.05	0.03
	B	0.06	0.03	0.08	0.06	0.01	0.00	0.05	0.03	0.02	0.05	0.02	0.09			0.05	0.05	0.04	0.04	0.08	0.07
8	A	0.00	0.02	0.03	0.02	0.04	0.03	0.04	0.02	0.01	0.01	0.01	0.01	0.08	0.08			0.06	0.06	0.05	0.04
	B	0.04	0.03	0.04	0.02	0.00	0.04	0.01	0.02	0.00	0.01	0.02	0.02	0.02	0.01			0.06	0.05	0.03	0.04
9	A	0.00	0.02	0.05	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.03	0.01	0.05	0.09	0.02	0.08			0.04	0.03
	B	0.02	0.02	0.01	0.01	0.03	0.04	0.10	0.06	0.05	0.01	0.02	0.00	0.03	0.03	0.04	0.08			0.03	0.01
10	A	0.04	0.04	0.04	0.05	0.05	0.05	0.02	0.01	0.07	0.03	0.03	0.03	0.03	0.02	0.03	0.04	0.04	0.02		
	B	0.02	0.01	0.00	0.03	0.09	0.06	0.06	0.05	0.06	0.08	0.03	0.03	0.07	0.02	0.04	0.05	0.03	0.04		

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Channel		1		2		3		4		5		6		7		8		9		10	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
		1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm	1625nm
1	A			0.08	0.04	0.08	0.06	0.04	0.04	0.03	0.04	0.01	0.00	0.11	0.03	0.08	0.07	0.02	0.06	0.09	0.05
	B			0.07	0.07	0.07	0.03	0.06	0.05	0.04	0.01	0.04	0.06	0.02	0.01	0.02	0.01	0.02	0.02	0.09	0.11
2	A	0.06	0.08			0.05	0.06	0.04	0.09	0.03	0.04	0.02	0.04	0.01	0.05	0.03	0.08	0.06	0.04	0.08	0.10
	B	0.09	0.09			0.06	0.03	0.04	0.09	0.02	0.02	0.03	0.01	0.00	0.01	0.02	0.05	0.03	0.05	0.06	0.04
3	A	0.04	0.05	0.04	0.07			0.08	0.07	0.06	0.04	0.07	0.06	0.06	0.09	0.10	0.05	0.03	0.07	0.06	0.12
	B	0.07	0.05	0.02	0.04			0.06	0.07	0.08	0.10	0.08	0.05	0.11	0.02	0.04	0.04	0.05	0.05	0.04	0.06
4	A	0.04	0.04	0.10	0.05	0.10	0.01			0.05	0.06	0.06	0.07	0.01	0.02	0.02	0.03	0.05	0.01	0.04	0.07
	B	0.03	0.05	0.04	0.04	0.05	0.04			0.03	0.09	0.04	0.04	0.07	0.01	0.01	0.02	0.01	0.00	0.02	0.03
5	A	0.01	0.05	0.02	0.04	0.07	0.02	0.01	0.03			0.02	0.03	0.05	0.08	0.12	0.04	0.03	0.01	0.03	0.01
	B	0.06	0.02	0.07	0.04	0.03	0.01	0.01	0.02			0.08	0.06	0.06	0.06	0.09	0.02	0.04	0.05	0.12	0.03
6	A	0.05	0.02	0.01	0.00	0.02	0.01	0.02	0.02	0.02	0.02			0.10	0.04	0.04	0.03	0.06	0.08	0.07	0.08
	B	0.05	0.04	0.03	0.03	0.02	0.05	0.07	0.04	0.05	0.01			0.03	0.09	0.06	0.05	0.03	0.09	0.05	0.10
7	A	0.01	0.01	0.02	0.06	0.09	0.11	0.03	0.02	0.04	0.01	0.09	0.06			0.05	0.02	0.04	0.07	0.06	0.07
	B	0.03	0.01	0.08	0.05	0.02	0.01	0.05	0.03	0.01	0.06	0.03	0.10			0.09	0.06	0.04	0.06	0.09	0.10
8	A	0.02	0.01	0.04	0.01	0.05	0.03	0.03	0.02	0.02	0.00	0.02	0.00	0.11	0.12			0.07	0.06	0.08	0.06
	B	0.01	0.03	0.02	0.01	0.01	0.03	0.02	0.04	0.02	0.02	0.01	0.03	0.02	0.02			0.04	0.04	0.07	0.07
9	A	0.04	0.06	0.05	0.07	0.05	0.06	0.07	0.03	0.04	0.06	0.06	0.05	0.06	0.10	0.12	0.10			0.04	0.03
	B	0.04	0.05	0.02	0.00	0.02	0.06	0.09	0.05	0.05	0.05	0.04	0.02	0.06	0.02	0.07	0.06			0.07	0.08
10	A	0.06	0.03	0.06	0.02	0.07	0.03	0.02	0.02	0.09	0.04	0.02	0.04	0.06	0.04	0.10	0.02	0.08	0.06		
	B	0.04	0.04	0.05	0.05	0.12	0.05	0.04	0.02	0.07	0.05	0.05	0.03	0.09	0.05	0.09	0.06	0.04	0.06		

SC/APC Jumper random mated insertion loss test results

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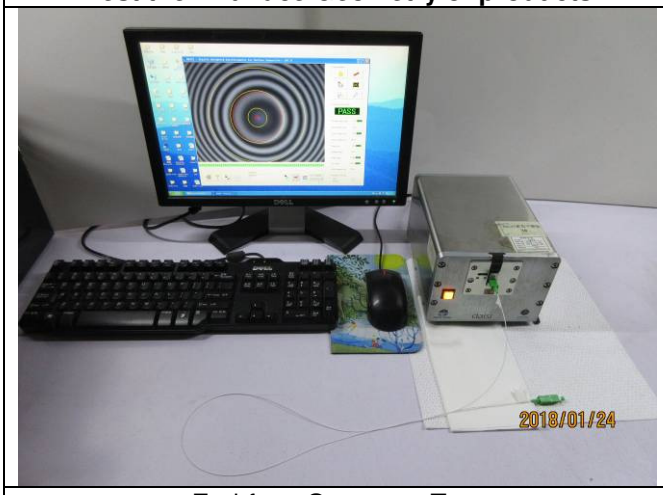
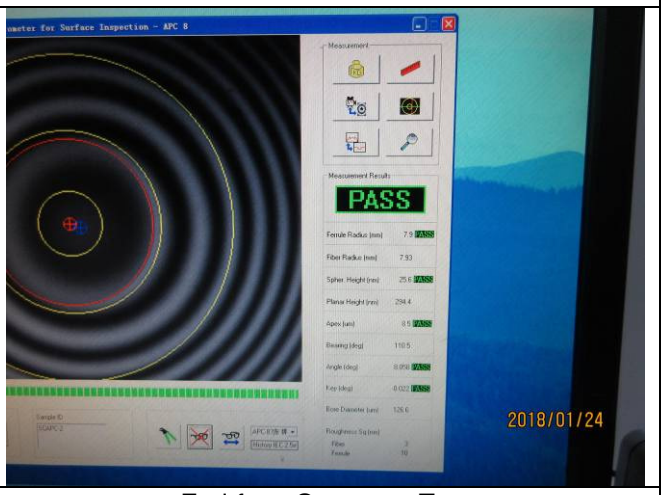
SC/APC				
Channel		1310nm	1550nm	1625nm
1	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
2	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
3	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
4	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
5	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
6	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
7	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
8	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
9	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
10	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH

SC/APC Jumper Return loss test results

2.4.2 **Test the End-face Geometry of products.**



End-face Geometry Test



End-face Geometry Test

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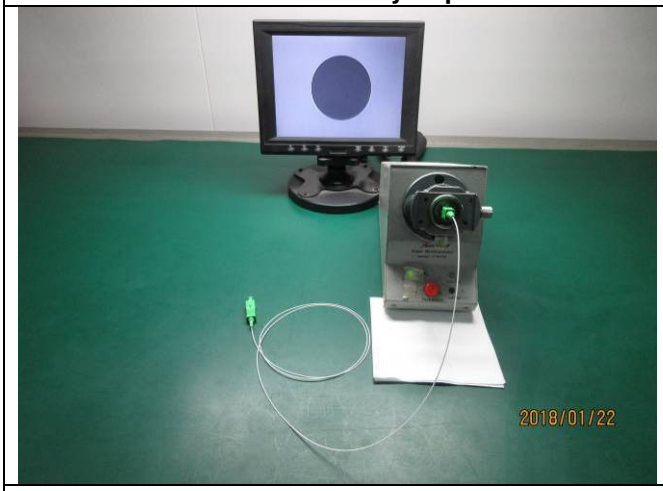
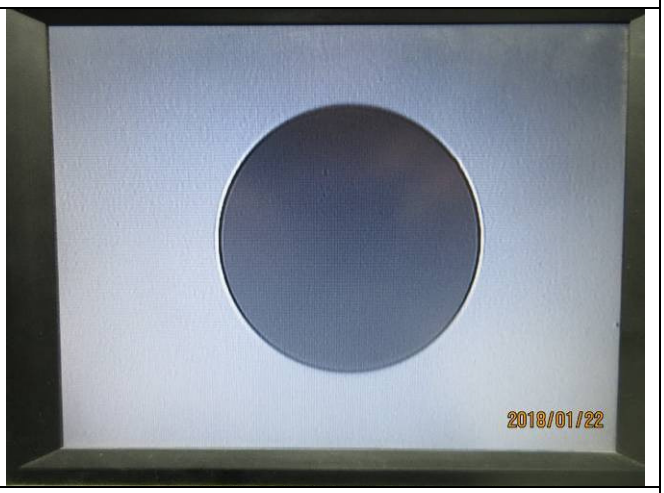
Sample ID	Type	Passed or Failed	Ferrule Radius of Curv. (mm)	Spherical Fiber Height (nm)	Apex Offset (um)	Angle Error (deg)	Key Error (deg)	Date
SCAPC-20	APC	PASS	7.81	22.8	10.5	8.060	-0.048	20180124 130941
SCAPC-19	APC	PASS	8.32	7.8	11.5	7.989	-0.078	20180124 130925
SCAPC-18	APC	PASS	7.98	26.4	14.9	8.103	-0.027	20180124 130902
SCAPC-17	APC	PASS	7.92	19.4	12.2	8.037	-0.080	20180124 130845
SCAPC-16	APC	PASS	7.76	24.4	11.9	8.087	-0.013	20180124 130826
SCAPC-15	APC	PASS	7.90	20.6	4.7	8.028	-0.019	20180124 130810
SCAPC-14	APC	PASS	8.23	23.2	4.6	7.998	-0.032	20180124 130749
SCAPC-13	APC	PASS	8.58	27.3	11.4	8.010	-0.076	20180124 130732
SCAPC-12	APC	PASS	7.60	23.4	15.2	7.945	-0.101	20180124 130709
SCAPC-11	APC	PASS	8.02	28.4	11.3	8.050	-0.064	20180124 130644
SCAPC-10	APC	PASS	8.31	23.1	13.5	8.092	-0.010	20180124 130623
SCAPC-9	APC	PASS	8.52	17.9	17.5	8.114	-0.028	20180124 130607
SCAPC-8	APC	PASS	8.46	22.3	5.3	8.036	0.001	20180124 130548
SCAPC-7	APC	PASS	8.63	21.8	18.5	8.109	-0.056	20180124 130532
SCAPC-6	APC	PASS	7.51	21.1	1.2	7.996	0.009	20180124 130513
SCAPC-5	APC	PASS	8.26	24.7	14.9	8.098	0.030	20180124 130453
SCAPC-4	APC	PASS	7.83	18.9	19.7	8.140	-0.033	20180124 130429
SCAPC-3	APC	PASS	8.17	20.5	8.9	8.038	-0.049	20180124 130412
SCAPC-2	APC	PASS	8.17	23.5	3.0	8.021	0.001	20180124 130348
SCAPC-1	APC	PASS	7.90	25.6	8.5	8.058	-0.022	20180124 130245
Number of Samples:		20	20	20	20	20	20	
Minimum:			7.51	7.8	1.2	7.945	-0.101	
Maximum:			8.63	28.4	19.7	8.140	0.030	
Mean:			8.09	22.2	11.0	8.050	-0.035	
standard Deviation:			0.31	4.3	5.1	0.049	0.033	
Percentage Passed:		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

End-face Geometry Test result

2.4.3 Test the End-face Quality of products.



End-face Quality



End-face Quality

Inspector: Zhenxing Peng Factory Representative:

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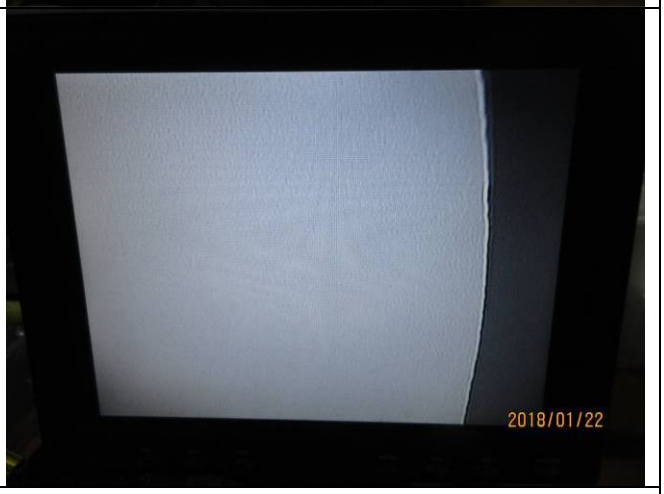
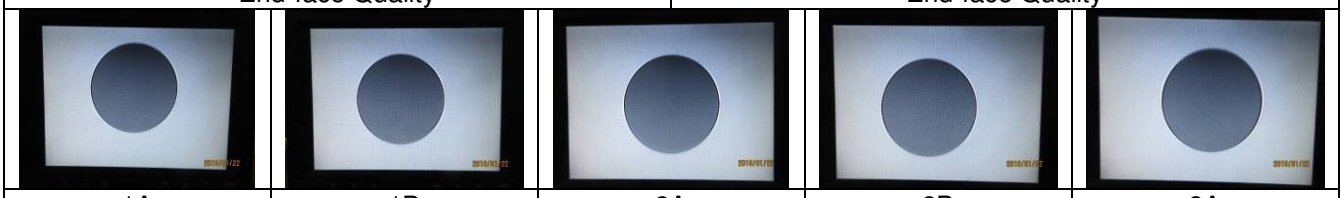
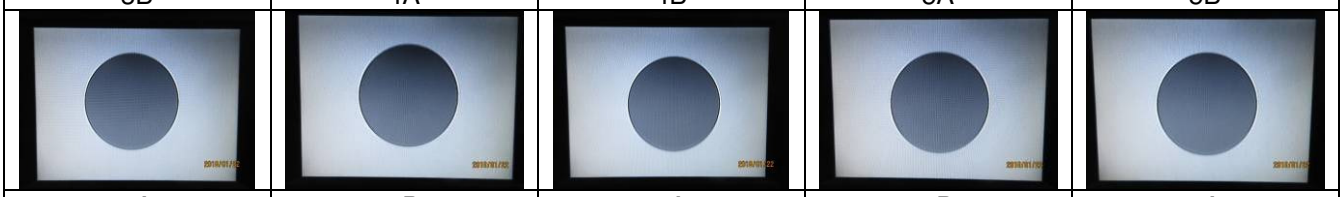


End-face Quality	End-face Quality



1A	1B	2A	2B	3A

3B	4A	4B	5A	5B



6A	6B	7A	7B	8A

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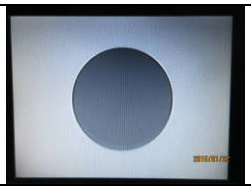
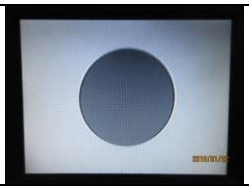
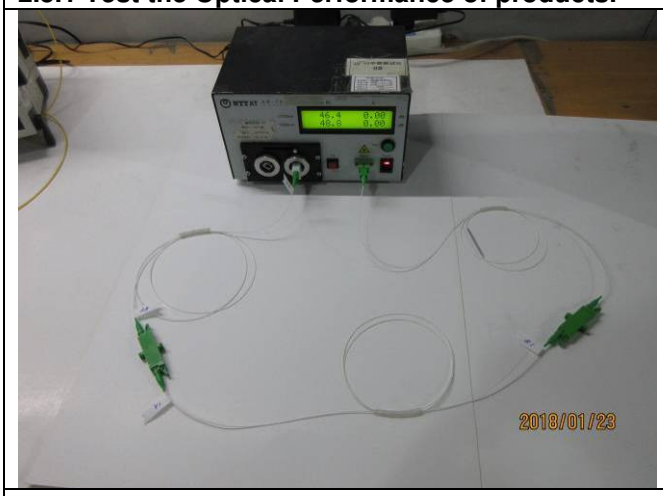
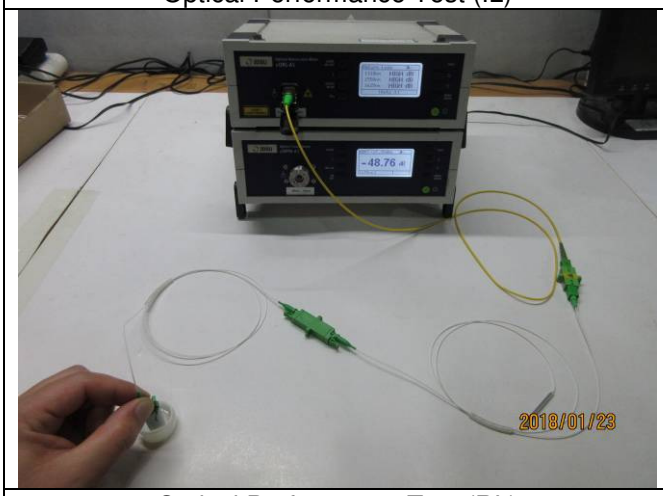
				
8B	9A	9B	10A	10B
All End-face Quality				

2.5 For item: LSH/APC Jumper 5pcs	
2.5.1 Test the Optical Performance of products.	
	
Optical Performance Test (IL)	Optical Performance Test (IL)
	
Optical Performance Test (RL)	Optical Performance Test (RL)

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Channel		1				2				3				4				5			
		A		B		A		B		A		B		A		B		A		B	
		1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm	1310nm	1550nm
1	A					0.11	0.09	0.00	0.00	0.01	0.00	0.09	0.04	0.03	0.06	0.10	0.09	0.12	0.08	0.10	0.05
	B					0.08	0.01	0.09	0.02	0.03	0.01	0.02	0.07	0.02	0.04	0.02	0.02	0.03	0.04	0.05	0.00
2	A	0.02	0.03	0.03	0.04					0.09	0.02	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.03	0.04	0.04
	B	0.04	0.05	0.03	0.06					0.07	0.05	0.09	0.08	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.03
3	A	0.07	0.07	0.06	0.05	0.04	0.07	0.03	0.03					0.10	0.09	0.06	0.03	0.04	0.00	0.04	0.01
	B	0.02	0.01	0.03	0.02	0.05	0.04	0.03	0.02					0.05	0.02	0.04	0.02	0.06	0.02	0.03	0.02
4	A	0.07	0.06	0.06	0.06	0.03	0.02	0.04	0.05	0.02	0.06	0.04	0.03					0.06	0.06	0.09	0.07
	B	0.07	0.05	0.02	0.02	0.10	0.08	0.09	0.07	0.06	0.06	0.02	0.01					0.06	0.07	0.03	0.04
5	A	0.06	0.08	0.04	0.08	0.07	0.10	0.00	0.04	0.02	0.03	0.07	0.08	0.07	0.08	0.08	0.08				
	B	0.01	0.02	0.02	0.01	0.01	0.00	0.02	0.00	0.02	0.01	0.02	0.02	0.00	0.00	0.01	0.02				

LSH/APC Jumper random mated insertion loss test results

LSH/APC				
Channel		1310nm	1550nm	1625nm
1	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
2	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
3	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
4	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH
5	A	HIGH	HIGH	HIGH
	B	HIGH	HIGH	HIGH

LSH/APC Jumper Return loss test results

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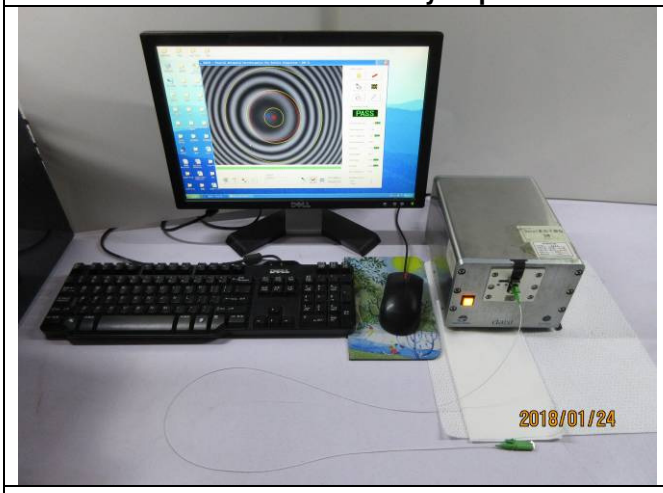
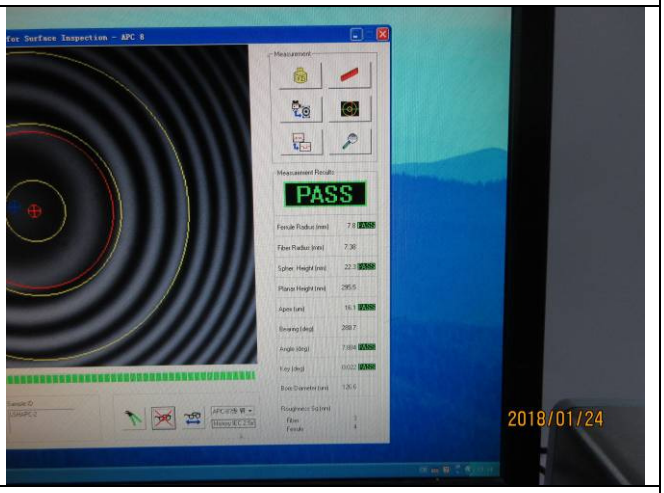
2.5.2 Test the End-face Geometry of products.



End-face Geometry Test



End-face Geometry Test

Sample		Passed or Failed	Ferrule Radius of Curv. (mm)	Spherical Fiber Height (nm)	Apex Offset (um)	Angle Error (deg)	Key Error (deg)	Date
ID	Type							
LSHAPC-10	APC	PASS	7.89	17.1	5.6	8.035	0.021	20180124_131725
LSHAPC-9	APC	PASS	7.97	15.9	3.8	7.984	0.023	20180124_131707
LSHAPC-8	APC	PASS	7.85	17.5	9.7	8.065	-0.026	20180124_131645
LSHAPC-7	APC	PASS	7.87	20.4	11.8	8.019	0.084	20180124_131626
LSHAPC-6	APC	PASS	7.84	24.2	13.2	7.953	0.084	20180124_131558
LSHAPC-5	APC	PASS	7.47	22.6	3.6	8.024	-0.014	20180124_131543
LSHAPC-4	APC	PASS	8.14	16.6	21.0	8.136	-0.058	20180124_131524
LSHAPC-3	APC	PASS	7.97	12.4	2.1	7.985	-0.001	20180124_131508
LSHAPC-2	APC	PASS	7.30	30.2	6.8	7.988	0.052	20180124_131443
LSHAPC-1	APC	PASS	7.80	22.3	16.1	7.884	0.022	20180124_131327
Number of Samples:		10	10	10	10	10	10	
Minimum:			7.30	12.4	2.1	7.884	-0.058	
Maximum:			8.14	30.2	21.0	8.136	0.084	
Mean:			7.81	19.9	9.4	8.007	0.019	
standard Deviatior			0.23	4.8	5.8	0.064	0.044	
Percentage Passed:		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

End-face Geometry Test result

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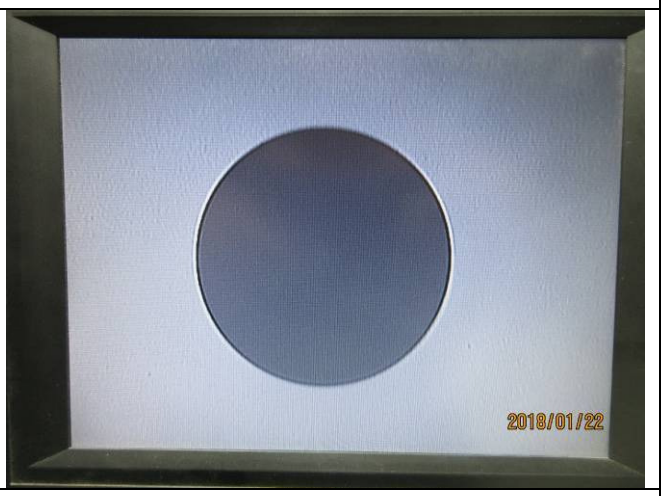
2.5.3 Test the End-face Quality of products.

End-face Quality



End-face Quality

End-face Quality

End-face Quality

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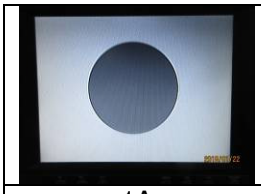
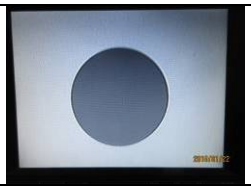
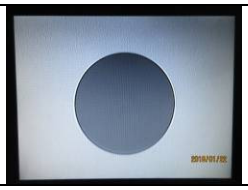
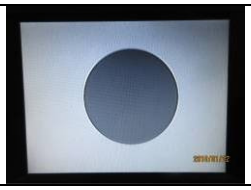
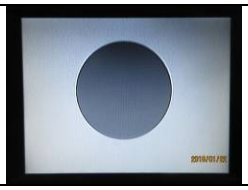
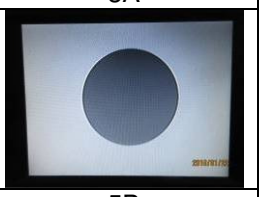
				
1A	1B	2A	2B	3A
				
3B	4A	4B	5A	5B
All End-face Quality				

3. Informative Remark:

The Insertion Loss (IL) measurements on LC/APC, SC/APC and LSH/APC jumpers are done in accordance with IEC 61300-3-34 random mating method.

– 10 – 61300-3-34 © IEC:2009(E)

"Reference" configuration		Patchcord under test																	
		1a	1b	2a	2b	3a	3b	4a	4b	5a	5b	6a	6b	7a	7b	8a	8b	9a	9b	10a	10b
Adaptor 1	1a	-	-																		
	1b	-	-																		
Adaptor 2	2a			-	-																
	2b			-	-																
Adaptor 3	3a					-	-														
	3b					-	-														
Adaptor 4	4a							-	-												
	4b							-	-												
Adaptor 5	5a									-	-										
	5b									-	-										
Adaptor 6	6a											-	-								
	6b											-	-								
Adaptor 7	7a													-	-						
	7b													-	-						
Adaptor 8	8a															-	-				
	8b															-	-				
Adaptor 9	9a																	-	-		
	9b																	-	-		
Adaptor 10	10a																			-	-
	10b																			-	-

--The End--

Inspector: Zhenxing Peng Factory Representative: _____

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