ETK1524099

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SUMITOMO ELECTRIC

Sumitomo Electric Fusion Splicer T-55

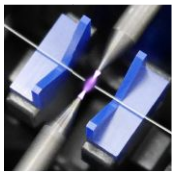
SUMITOMO ELECTRIC INDUSTRIES, LTD.

2015 /00/00

Confidential

Automatic Adaptive Core Fusion Splicer

T-55



Excellent Performance

User Friendly

High Environment Durability

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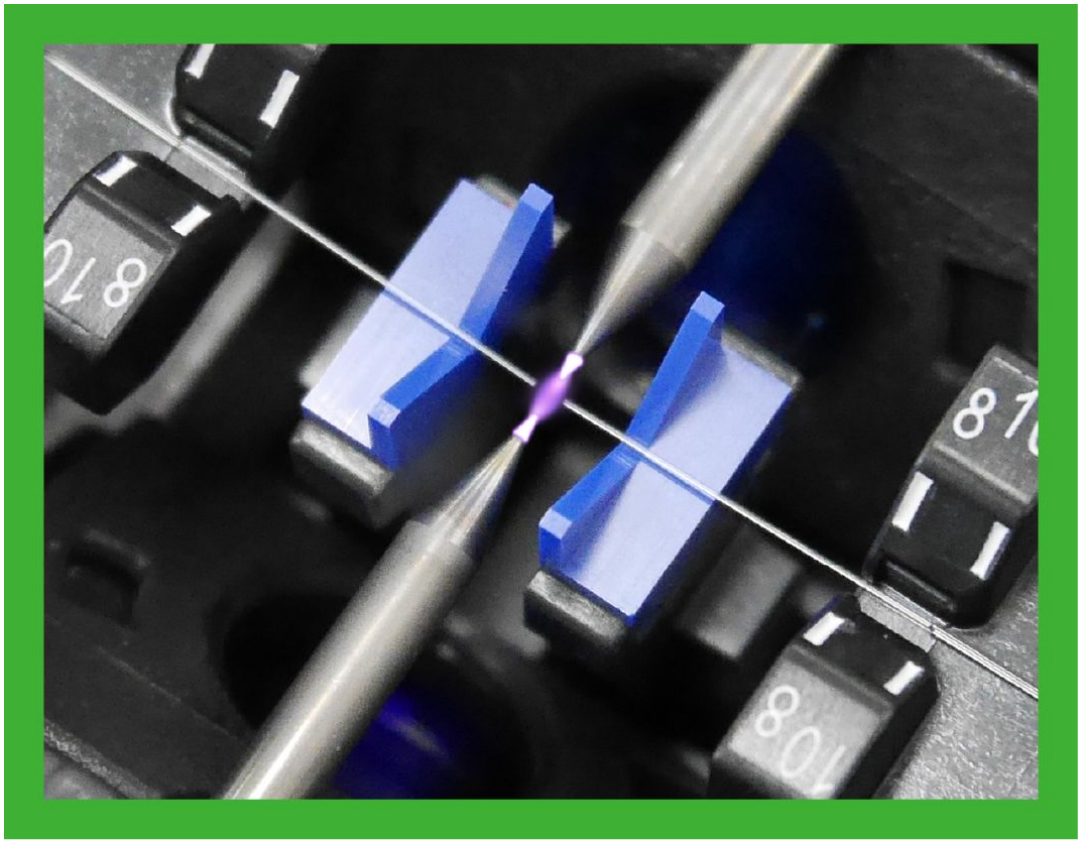
Excellent Performance

Splicing Speed

Rapid 7 sec. splice time "SM G652 Quick" Mode



Comparison
T-55 vs T-71C+

Model	Splice time
T-55	7 sec
T-71C+	6 sec

Excellent Performance

Heater Performance

20 sec. heating time

Comparison
T-55 vs T-71C+

Model	#of heater	Heating time
T-55	Single	**20 sec**
T-71C+	Dual	**14 sec**

Excellent Performance

Splicing Loss

Splice Loss 0.02dB(Typical)

Comparison
T-55 vs T-71C+

Model	SMF G652D loss	G655 NZDSF loss
T-55	0.02dB	0.04dB
T-71C+	0.01dB	0.03dB

User Friendly

Size／Weight

Compact and lightweight

1.7kg
without battery

1.9kg with battery BU-11S

Note: The size above does not include rubber protection parts.

User Friendly

Touch Panel

Touch optimised user interface for intuitive and easy operation

User Friendly

Splice & Heating Programme and Data Storage

Select and customise

Splicing Programme
Max **300**

Heating Programme
Max **100**

Splice Data
internal Max **10,000**
\+
8GB SD Card **10,000**

Splice Image
internal Max **200**
\+
8GB SD Card **50,000**

Durability

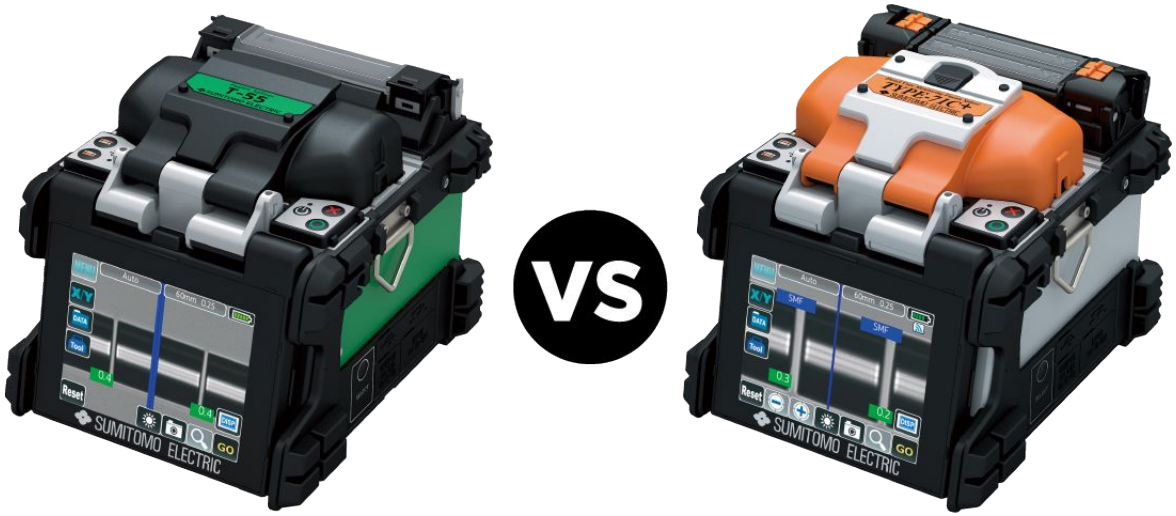
Water Proof

High Environmental Durability

Passes IPx2 test

IPx2

Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15°from its normal position.
Test duration: 10 min,
Water equivalent to 3 mm rainfall per minute.



T-55 vs T-71C+ Comparison

T-55 vs T-71C+ Comparison

T-71C+

- x8 microscopes
- High Definition Core Monitoring
- Most precise fibre alignment including core alignment on all commercially available G657 fibres
- Most accurate loss estimates, reducing rework and cost of cable installations

T-55

- x4 microscopes
- Innovative Automatic Adaptive Core Alignment
- Splice loss performance broadly equivalent to other machines
- Loss estimate accuracy better than other machines

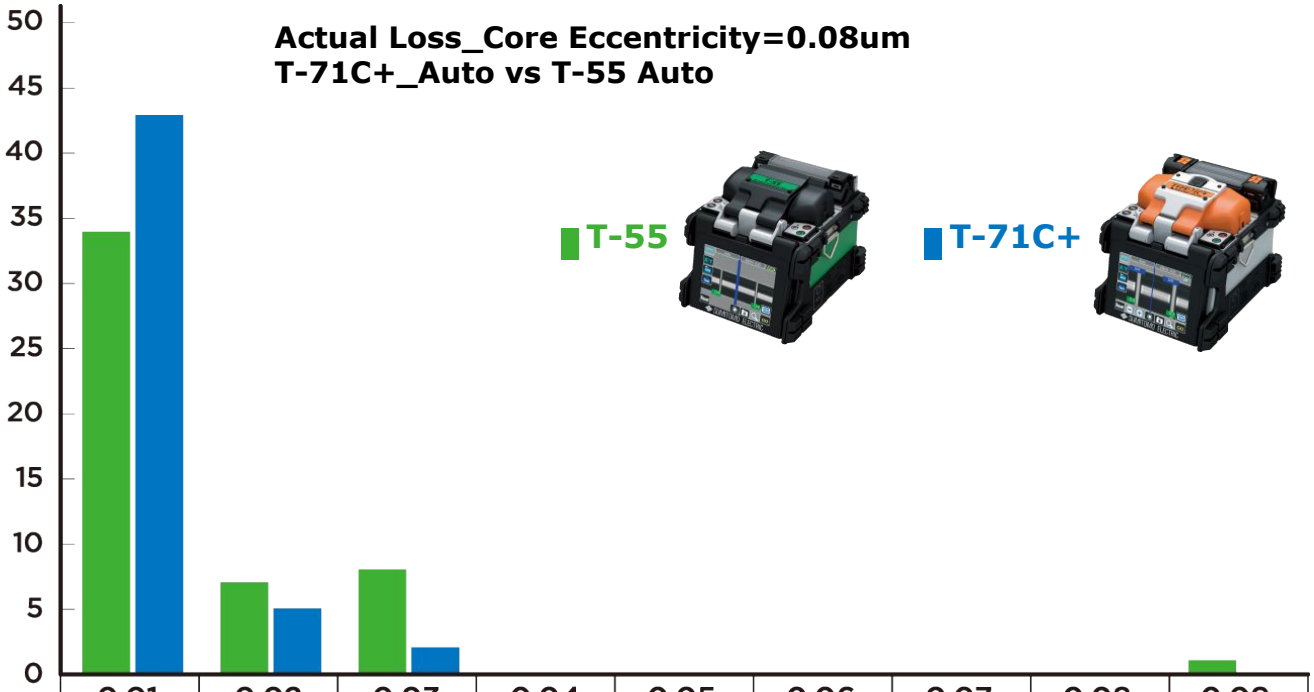
T-55 vs T-71C+ Comparison Overview

		T-55	T-71C+
Fibre type	Common	SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF (G.657)	
	Specialty	—	EDF etc
Splice loss (typ.)		SMF : 0.02 dB MMF : 0.01 dB DSF/NZDSF : 0.04 dB	SMF : 0.01 dB MMF : 0.01 dB DSF/NZDSF : 0.03 dB
Splice time (typ.)		7 sec.(SM Quick Mode) 9 sec.(Auto Mode)	6 sec.(SM Quick Mode) 8 sec.(Auto Mode)
Heating time (typ.)		20 sec.	14 sec.
Dual independent heaters		Not Available (Single)	Available
Splice & Heat cycles per battery		Approx. 230 (BU-11)	Approx. 230 (BU-11)
Automatic fibre identification		SMF / MMF / Other	SMF / MMF / DSF & NZDSF / BIF / Other
Fibre magnification		200X X and / or Y view 88X XY dual view (Digital Zoom : 525X)	320X X and / or Y view 88X XY dual view (Digital Zoom : 700X)
Data storage		200 image captures / 10,000 splice data (+SD card slot)	
Wireless LAN connectivity		Not Available	Available
Remote maintenance		Not Available	Available
Touch screen monitor		4.1” touch screen LCD	
Environmental durability		Shock : Drop from 76cm on 5 faces Water : IPx2 Dust : IP5x	
Carrying case		CC-Z1	CC-71+

Excellent Performance

T-55 vs T-71C+ Splice loss Comparison

Splice loss with High Quality Fibre (good core eccentricity)



	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
T-55 Auto	34	7	8	0	0	0	0	0	1
T-71C+ Auto	43	5	2	0	0	0	0	0	0

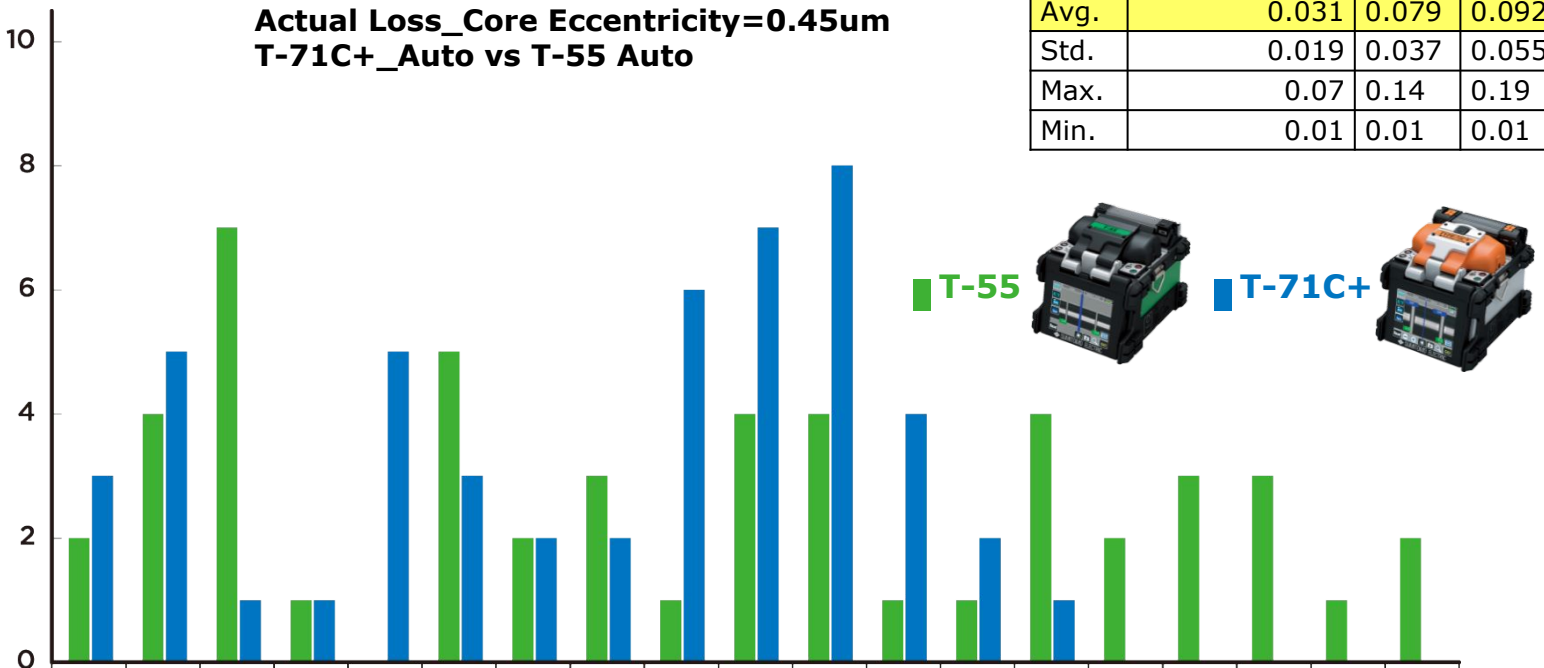
T-55 splice loss mostly equivalent to T-71C+

Excellent Performance

T-55 vs T-71C+ Splice loss Comparison

Splice loss with Low Quality Fibre (bad core eccentricity)

	T-71C+		T-55
Mode	SM G652 AIAS	Auto	Auto
N	50	50	50
Avg.	0.031	0.079	0.092
Std.	0.019	0.037	0.055
Max.	0.07	0.14	0.19
Min.	0.01	0.01	0.01



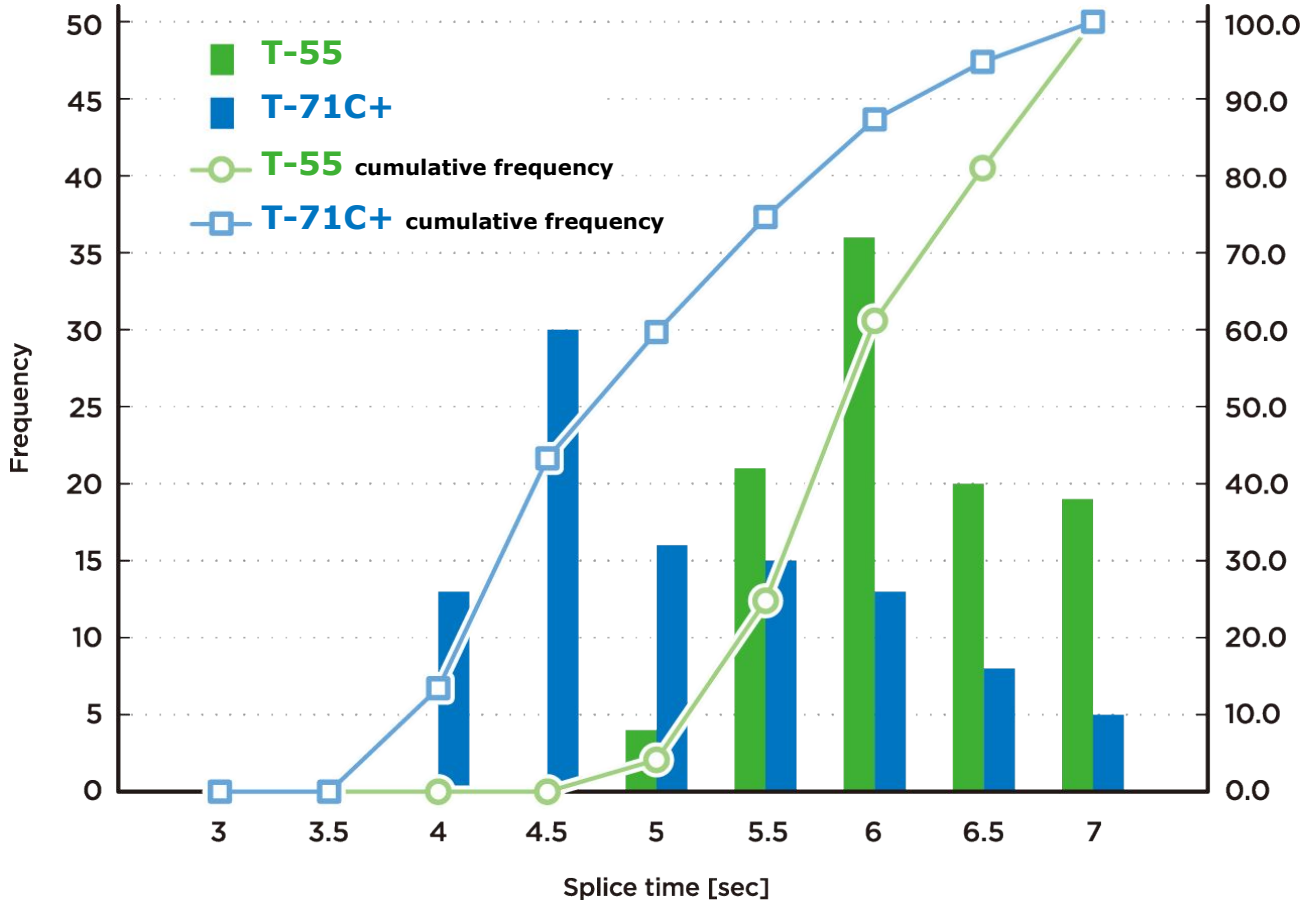
	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
T-55 Auto	2	4	7	1	0	5	2	3	1	4	4	1	1	4	2	3	3	1	2
T-71C+ Auto	3	5	1	1	5	3	2	2	6	7	8	4	2	1	0	0	0	0	0

T-71C+ achieves better loss than T-55

Excellent Performance

T-55 vs T-71C+ Splice loss Comparison

Test condition
-Fibre : SMF
-Splice program : SM G652 Quick mode
-Number of splices : 100



T-55

Ave. 5.9sec.

T-71C+

Ave. 4.9sec.

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T-55 vs Cladding Aligner

(Fujikura 22S & Inno View3)

Comparison with "Active V-groove"

T-55 can see the core, cladding aligner=22S and View3 cannot

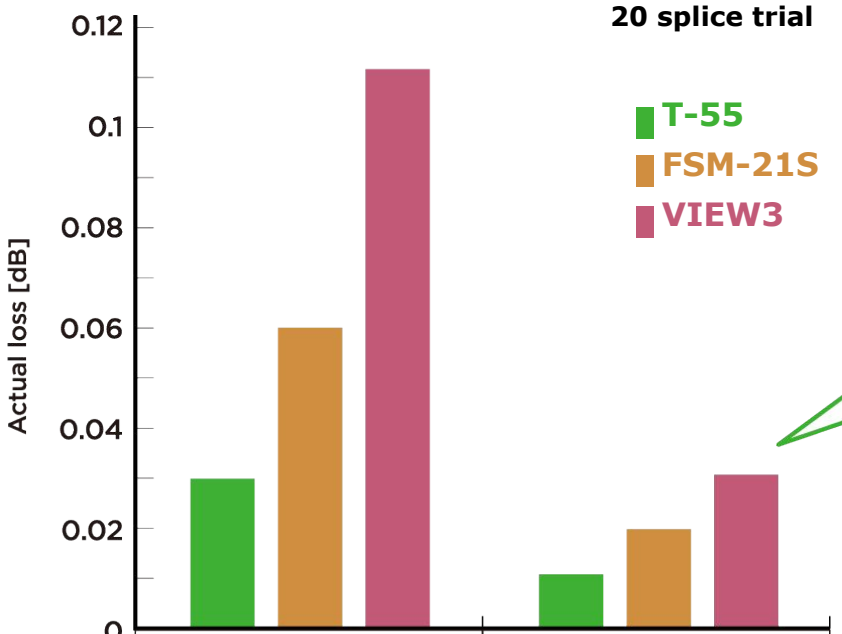
		T-55	Fujikura 22S	INNO View3
Fibre type	Common	SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655)		
	Specialty	BIF (G.657)	–	
Alignment method		Automatic Adaptive Core Alignment	Active V-groove (Cladding) Alignment	
Can see core image		Yes	No	No
Splice loss (typ.)*		SMF : 0.02 dB MMF : 0.01 dB DSF/NZDSF : 0.04 dB	ESMF : 0.03 dB MMF : 0.01 dB DSF/NZDSF : 0.05 dB	SMF : 0.03 dB MMF : 0.02 dB DSF/NZDSF : 0.05 dB
Splice time (typ.)		7 sec.(SM Quick Mode) 9 sec.(Auto Mode)	9 sec. (SM FAST) 11 sec. (SM AUTO)	7 sec.(Quick Mode) 9 sec.(SM Mode)
Fibre identification		Available (SM / MM / Other) Internally=Not displayed	Not Available	Not Available
Heating time (typ.)		20 sec.	30 sec.	30 sec.
Splice & Heat cycles per battery		115 (BU-11S) 230 (BU-11)	200 (BTR-11)	170 (LBT-40 4200mAh)
Data storage		200 image captures (+50,000 with 8GB SD Card) 10,000 splice data (+10,000 with 8GB SD card)	8 image captures Last 10,000 splice data	0 image captures 2,000 splice data
Touch screen monitor		Available 4.1" touch screen LCD	Not Available 4.73 LCD	Available 5.0" touch screen LCD
Fibre magnification		200X X and/or Y view 88X XY dual view (Digital Zoom : 525X)	132X magnification 200X after splice	520X magnification
Size and weight		120x154x130mm, 1.9kg	120x189x72mm, 1.14kg	177x147x149mm, 2.31kg

*) Actual splice Loss must be lower even if poor core concentration fibre. To be conducted benchmark test with 21S and View3

Excellent Performance

Splicing Loss Comparison

As the T-55 can view and process the core image it consistently achieves lower splice loss than simple cladding alignment splicers.



	SM(G.652)	
	Max.	Ave.
T-55	0.03	0.0115
FSM-21S	0.06	0.0185
VIEW3	0.11	0.0305

SUMITOMO
T-55

Ave.
0.01dB

Fujikura
FSM-21S

Ave.
0.02dB

INNO
VIEW3

Ave.
0.03dB

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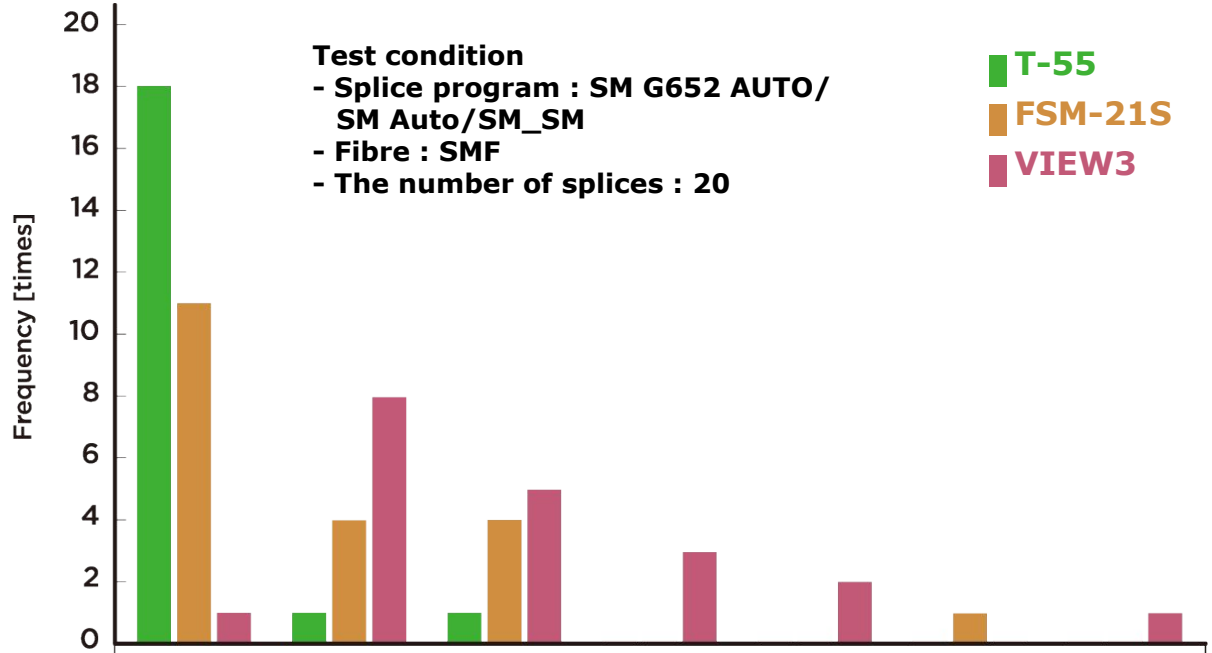
Excellent Performance

Percentage of splice success with less than or equal to 0.02dB



	Actual loss[dB]						
	0.01	0.02	0.03	0.04	0.05	0.06	0.07
T-55	18	1	1	0	0	0	0
FSM-21S	11	4	4	0	0	1	0
VIEW3	1	8	5	3	2	0	1

% of less than 0.02dB Splicing

SUMITOMO
T-55
95%

Fujikura
FSM-21S
75%

INNO
VIEW3
45%

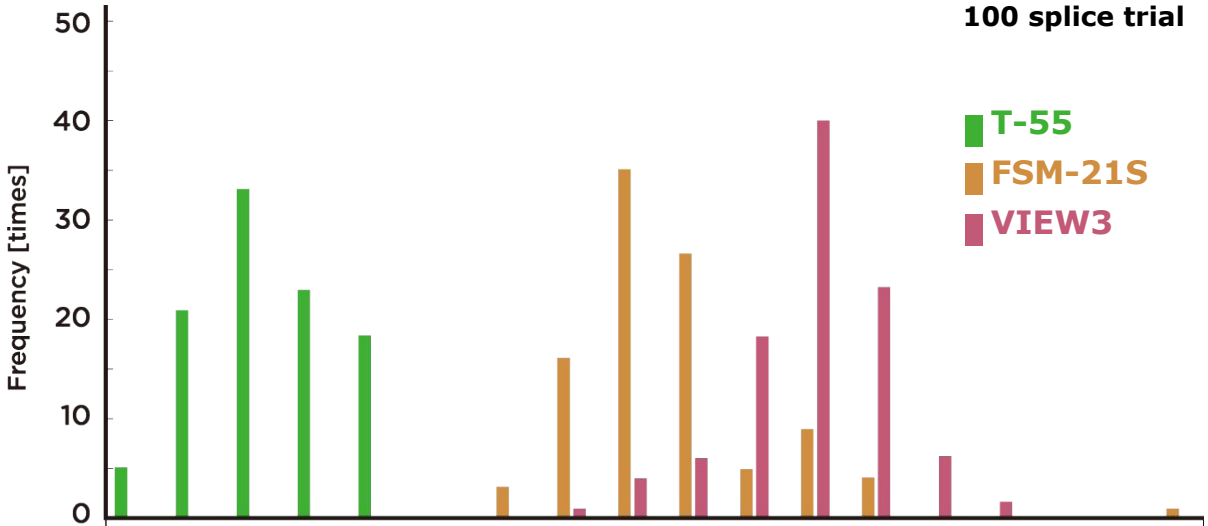
Automatic adaptive core alignment beats simple cladding alignment

Excellent Performance

Splicing Speed Comparison

G.652 Quick Mode

Why use slow cladding alignment when T-55 uses faster Automatic Adaptive Core Alignment.



	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5
T-55	5	21	33	23	18	0	0	0	0	0	0	0	0	0	0	0	0	0
FSM-21S	0	0	0	0	0	0	3	16	35	27	5	9	4	0	0	0	0	1
VIEW3	0	0	0	0	0	0	0	1	4	6	18	40	23	6	2	0	0	0

SUMITOMO
T-55
Ave.
5.9sec.

Fujikura
FSM-21S
Ave.
9.1sec.

INNO
VIEW3
Ave.
10.2sec.

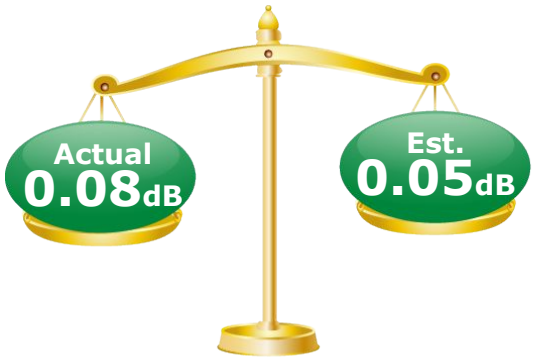
T-55, the fastest and with core image processing

Excellent Performance

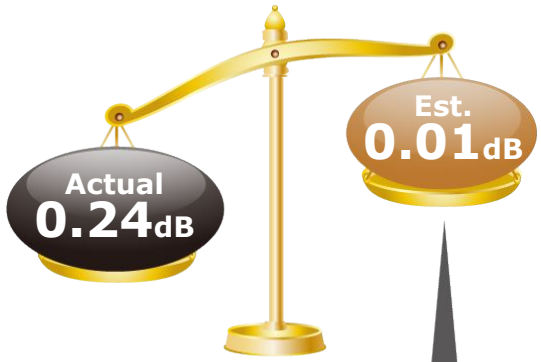
Accurate Loss Estimate Comparison

Sumitomo Splicers guide you in RIGHT direction.
Other Splicer brands guide you NOWHERE.

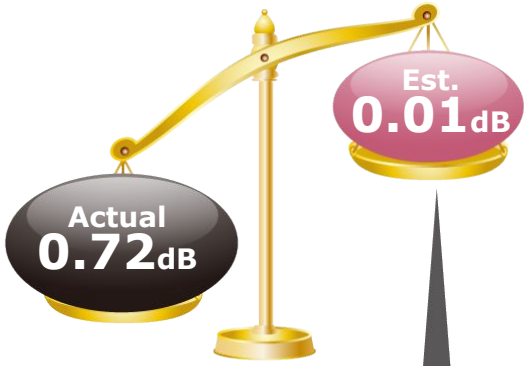
SUMITOMO
T-55



Fujikura
FSM-21S



INNO
VIEW3

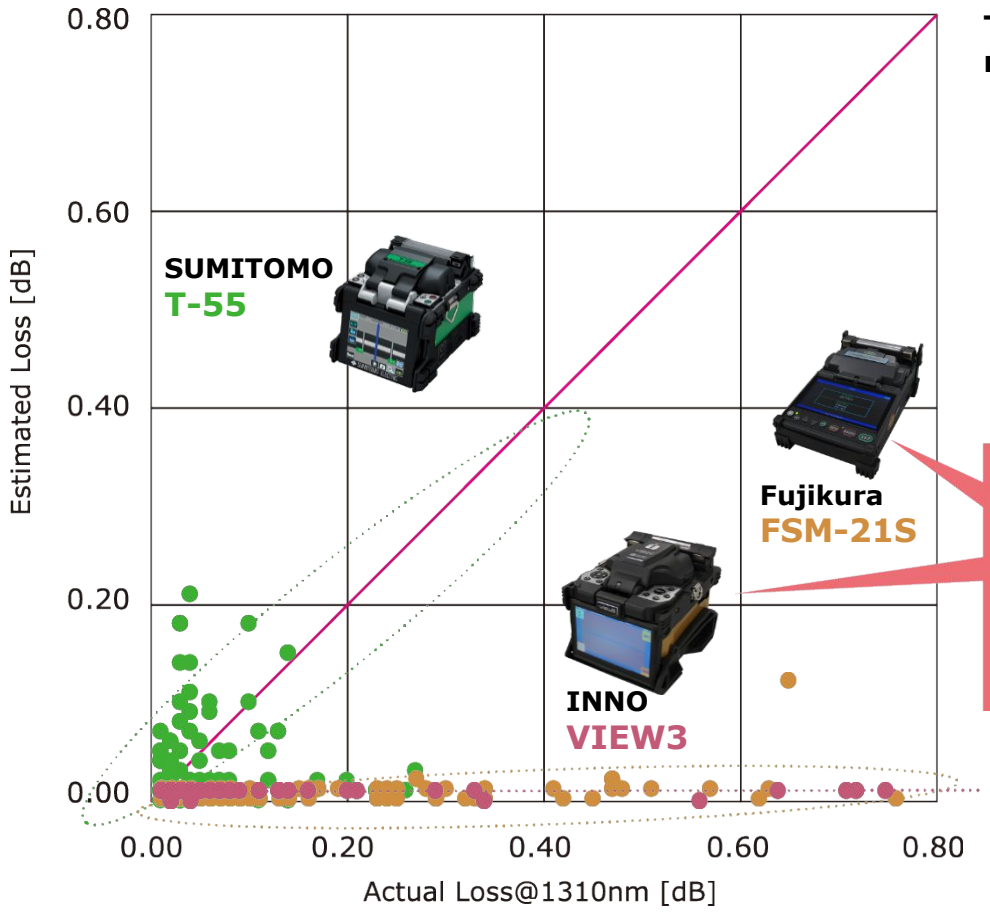


Not telling you the truth

Excellent Performance

Accurate Loss Estimate Comparison

Thanks to its ability to process the core image, the Sumitomo T-55 beats the cladding aligners on loss estimate accuracy.



The better performance, the nearer to pink line on the graph.

Poor loss estimate accuracy causes more splicing reworks and increases operational costs.

User Friendly

Splicing / Heating Programme & Data Storage

Sumitomo T-55 provides the highest number of splicing programme, data & image.