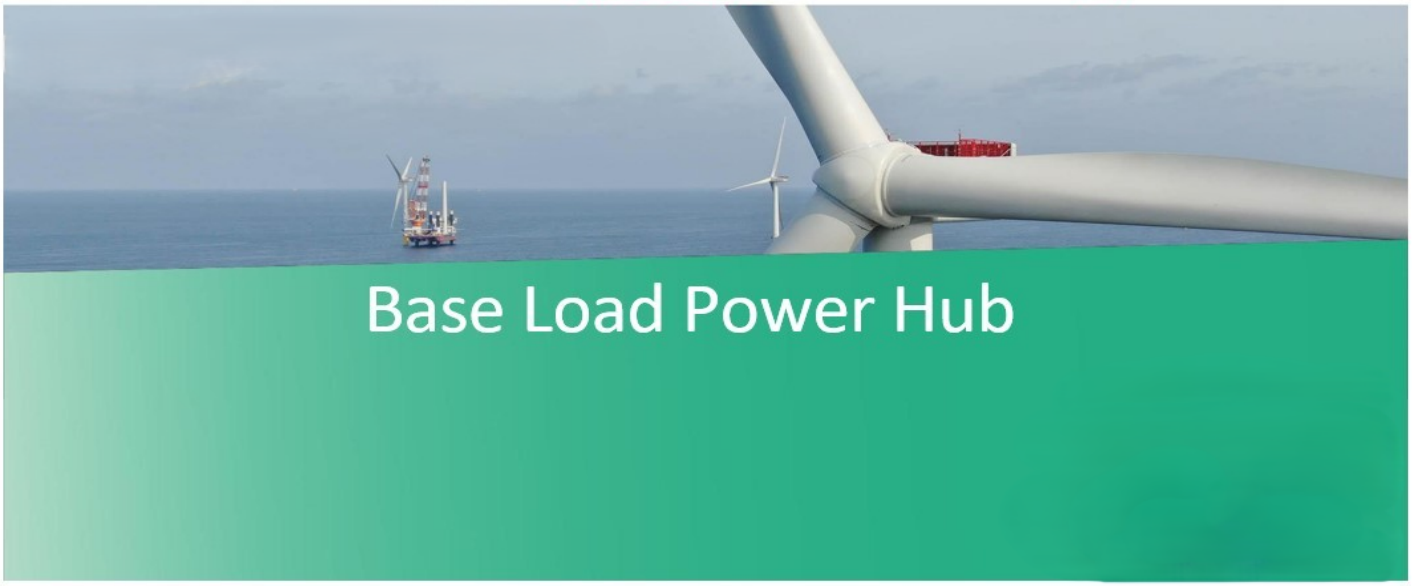
CROSSWIND

ROSETTI MARINO

PROVERLIS

PROJECT **123A90 - HOLLANDSE KUST NOORD WIND PARK**
BLPH Project



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	86 Telecommunication
SUBSYSTEM	86-20 Fibre Optic Links

CROSSWIND	123A90 - HOLLANDSE KUST NOORD WIND PARK BLPH Project MECHANICAL COMPLETION DOSSIER INDEX	ROSETTI MARINO

Sub System N°:	86-20	Tick as appropriate	ONSHORE	O
Description:	Fibre Optic Links		OFFSHORE	NA

1.	***READY FOR COMMISSIONING CERTIFICATE*** *Ready For Commissioning Certificate (RFC)*	O
2.	***CONSOLIDATED PUNCH LISTS*** *Cleared and Residual Items*	O
3.	***SYSTEM/SUB-SYSTEM LIMIT DRAWINGS*** *Mark-up drawings showing the limits of the relevant System/Sub-System*	NA
4.	***MECHANICAL COMPLETION STATUS INDEX – BUILDING DISCIPLINE*** *Building Sub-System Status Index (Print out) and Check/Test sheets*	NA
5.	***MECHANICAL COMPLETION STATUS INDEX – ELECTRICAL DISCIPLINE*** *Electrical Sub-System Status Index (Print out) and Check/Test Sheets* *Hazardous Area Equipment Detailed Inspection*	NA
6.	***MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE*** *Instrumental Sub-System Status Index (Print out) and Check/Test Sheets*	NA
7.	***MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE*** *Mechanical SubSystem Status Index (Print out) and Check/Test Sheets*	NA
8.	***MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE*** *Telecommunication Sub-System Status Index (Print out) and Check/Test Sheets*	O
9.	***MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE*** *HVAC Sub-System Status Index (Print out) and Check/Test Sheets*	NA
10.	***MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE*** *Piping Sub-System Status Index and Check/Test Sheets*	NA
11.	***MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE*** *Safety Sub-System Status Index (Print out) and Check/Test Sheets*	NA
12.	***FAT / VENDOR REPORTS*** *Fat reports issued by vendors and/or vendor reports*	NA
13.	***MECHANICAL COMPLETION CHANGES / MARK-UPS*** *A copy of the changes initiated during the Mechanical Completion process pertaining to the relevant Sub-System will be incorporated in this section*	NA

Note: Under the generic terminology “Building” are also covered the following disciplines: **Structural, Painting**

Under the generic terminology “Instrumental” is also covered the following discipline: **Fire & Gas**

ROSETTI MARINO	123A90 - HOLLANDSE KUST NOORD WIND PARK BLPH Project	CROSSWIND

Ready For Commissioning (RFC) Certificate

COMPLETE	●	PARTIAL	

Revision:	1		Issued on:	2025-02-10	
System:	86	/	Telecommunication		
SubSystem:	86-20	/	Fibre Optic Links		

1	COMPANY has, at its option and if required, reviewed the mechanical completion associated with the above-named system/sub-system of the SCOPE and observed that such functional sub-system has been brought into readiness for commencement of the associated pre-commissioning and commissioning activities, but for the outstanding punch list items, if any, attached and referred in this Certificate.
2	Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.
3	Mechanical Completion Status Index attached (per Discipline) Punch List report attached (Outstanding and Cleared)

PUNCH LIST	PENDING POINTS	
Note: All Category "A" Items must be cleared prior to issue a Ready For Commissioning (RFC) Certificate	A '0	B '0

REMARKS: RFC Complete for ONSHORE FASE

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Anthony Iveson	CPY NOT PRESENT	CPY NOT PRESENT
Date	2025-02-10	2025-02-11	2025-02-12	2025-02-12
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2025-02-10T13:43:53.183Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-02-11T17:34:33.757Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-02-12T12:06:37.544Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-02-12T12:06:43.405Z

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 86-20 & process: MC

Telecom	86-20 Fibre Optic Links						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
CP-100E1/B400-NET-001.01	66 kV GIS Local Control Panel / Network Cabinet / EMCS System	ONSHORE	C10004359	CIX11	100	2025-02-04	RFC 1
CP-100E1/B400-NET-001.02	66 kV GIS Local Control Panel / Network Cabinet / EMCS System	ONSHORE	C10004360	CIX11	100	2025-02-04	RFC 1
HNA6/B400-NET-001	COMMUNICATION / NETWORK CABINET	OFFSHORE	C10004356	CIX11	0	-	-
		ONSHORE	C10004803	CIX11	100	2025-02-04	-
HNA6/CN-200N1	COMMUNICATION / ICCP UCP PANEL	OFFSHORE	C10004514	CIX11	0	-	-
		ONSHORE	C10004804	CIX11	100	2025-02-04	-

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 86 Telecommunication

SUBSYSTEM 86-20 Fibre Optic Links

Telecom									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003511	B	HNA6/B400-NET-001 C10004803	Missing cable tag bot side the cable and inside and outside the panel Cabinet (B400-NET-001) . See attached photo.	.		Gtangianu 2025-02-03	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30003512	B	HNA6/CN-200N1 C10004804	Missing identification cable tag inside the (CN-200N1). See attached photo.	.		Gtangianu 2025-02-03	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30003514	B	HNA6/CN-200N1 C10004804	Missing identification tag side INTERNAL/EXTERNAL MCT (B200).	.		Gtangianu 2025-02-03	2025-02-04	Gtangianu 2025-02-04	2025-02-04

Section 2 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	86	Telecommunication
SUBSYSTEM	86-20	Fibre Optic Links

Telecom									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003511	B	HNA6/B400-NET-001 C10004803	Missing cable tag bot side the cable and inside and outside the panel Cabinet (B400-NET-001) . See attached photo.	.		Gtangianu 2025-02-03	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30003512	B	HNA6/CN-200N1 C10004804	Missing identification cable tag inside the (CN-200N1). See attached photo.	.		Gtangianu 2025-02-03	2025-02-04	Gtangianu 2025-02-04	2025-02-04
C30003514	B	HNA6/CN-200N1 C10004804	Missing identification tag side INTERNAL/EXTERNAL MCT (B200).	.		Gtangianu 2025-02-03	2025-02-04	Gtangianu 2025-02-04	2025-02-04

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003511

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004803	1.4 Discipline	Telecom
1.2 Item	HNA6/B400-NET-001	COMMUNICATION / NETWORK CABINET	
1.3 Subsystem	86-20	Fibre Optic Links	

2 - OBSERVATION

Missing cable tag bot side the cable and inside and outside the panel Cabinet (B400-NET-001) .

See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-04

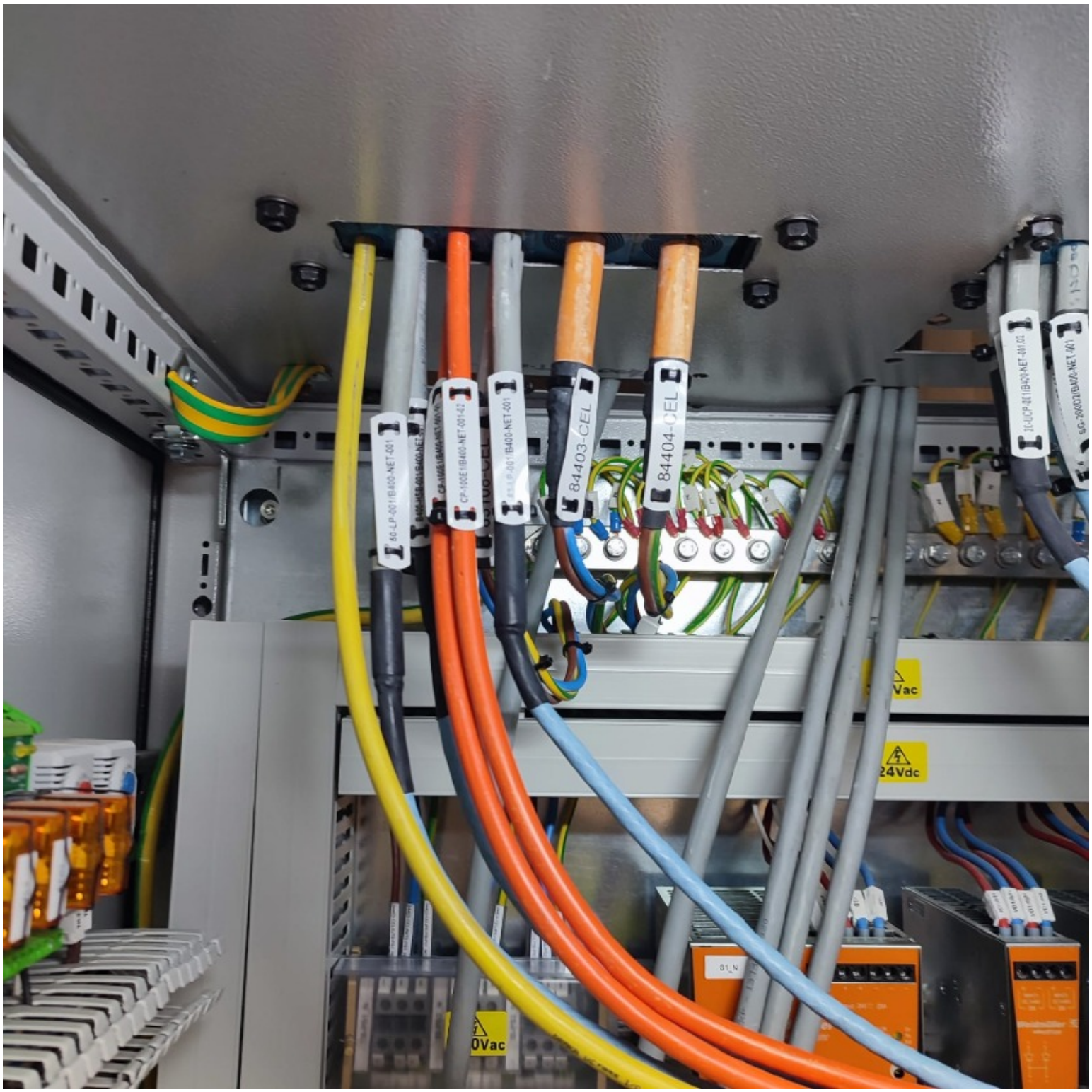
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


84403-CEL
84404-CEL
24Vdc



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003512

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004804	1.4 Discipline	Telecom
1.2 Item	HNA6/CN-200N1	COMMUNICATION / ICCP UCP PANEL	
1.3 Subsystem	86-20	Fibre Optic Links	

2 - OBSERVATION

Missing identification cable tag inside the (CN-200N1). See attached photo.

Name: Giovanni Tangianu

Date: 2025-02-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-04

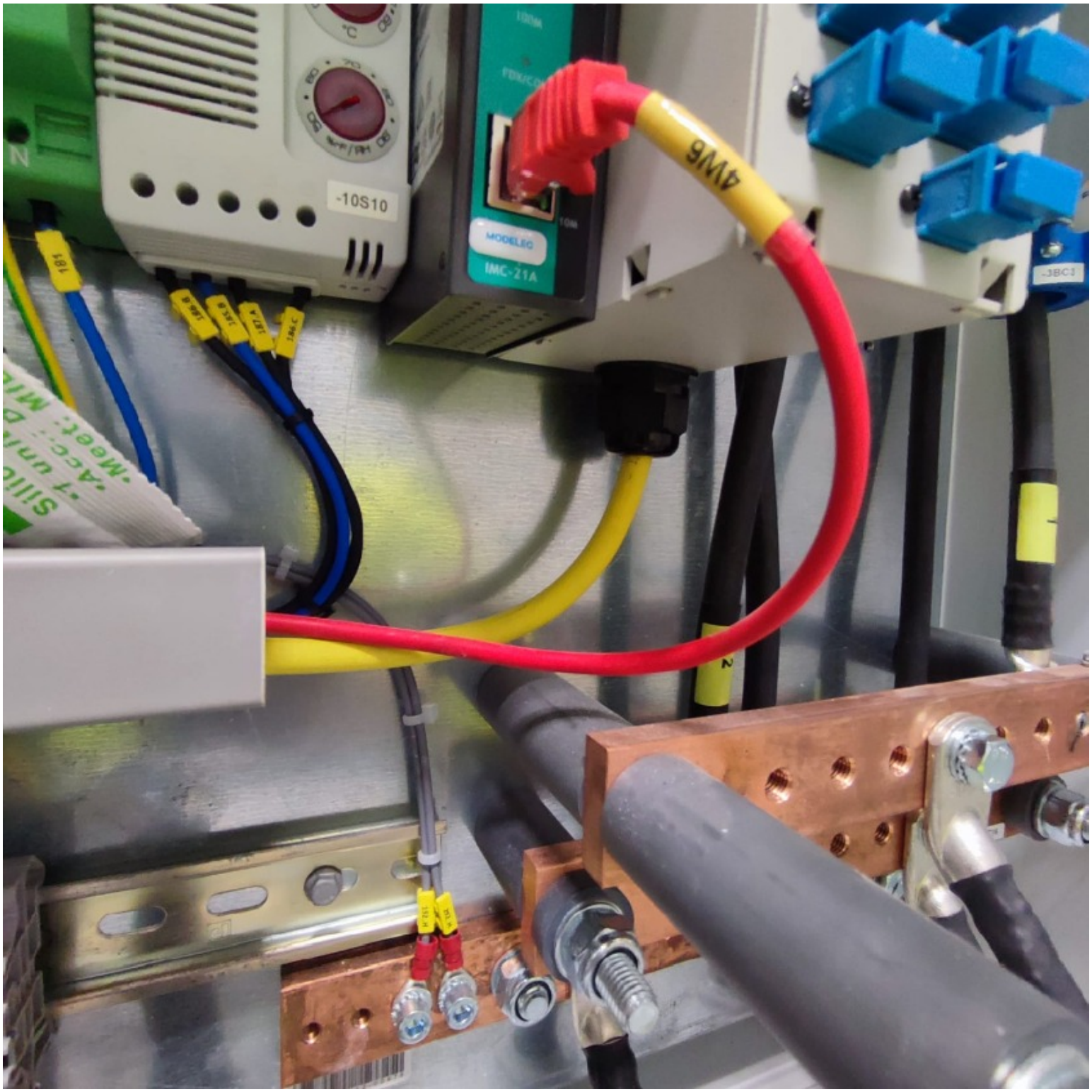
Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:


-10S10
MODELEC
IMC-21A
4W6

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003514

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004804	1.4 Discipline	Telecom
1.2 Item	HNA6/CN-200N1	COMMUNICATION / ICCP UCP PANEL	
1.3 Subsystem	86-20	Fibre Optic Links	

2 - OBSERVATION

Missing identification tag side INTERNAL/EXTERNAL MCT (B200).

Name: Giovanni Tangianu

Date: 2025-02-03

Signature:

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2025-02-03
3.5 Action by	RM_CONSTR RM	Signature	

4 - PERFORMED ACTION

Name:

Date:

Signature:

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-02-04

Signature:

6- CLEARANCE APPROVAL

Name:

Date:

Signature:

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS

NOT APPLICABLE

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

NOT APPLICABLE

Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

NOT APPLICABLE

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 86-20 & process: MC & discipline : T

Telecom	86-20 Fibre Optic Links						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
CP-100E1/B400-NET-001.01	66 kV GIS Local Control Panel / Network Cabinet / EMCS System	ONSHORE	C10004359	CIX11	100	2025-02-04	RFC 1
CP-100E1/B400-NET-001.02	66 kV GIS Local Control Panel / Network Cabinet / EMCS System	ONSHORE	C10004360	CIX11	100	2025-02-04	RFC 1
HNA6/B400-NET-001	COMMUNICATION / NETWORK CABINET	OFFSHORE	C10004356	CIX11	0	-	-
		ONSHORE	C10004803	CIX11	100	2025-02-04	-
HNA6/CN-200N1	COMMUNICATION / ICCP UCP PANEL	OFFSHORE	C10004514	CIX11	0	-	-
		ONSHORE	C10004804	CIX11	100	2025-02-04	-

ITEM	Tag	CP-100E1/B400-NET-001.01	: 66 kV GIS Local Control Panel / Network Cabinet / EMCS System			Dwg	123A90-DDL-IN-LIS-40091
	S/Sys	86-20	: Fibre Optic Links			Module	LD_B-100/LD_B-400
TASK	code	C10004359		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Telecom	Form	CIX11 Fibre Optic/Patch Panel

CABLE DATA

Type	FO-LSZH-SWB-LSZH	Cores/Size mm²	12FO	Color	ORANGE
From	CP-100E1		To	B400-NET-001	

1	Check Fiber optical cable features is adapted and according to the project (type, cores number, structure, Fire resistance, etc..)	OK
2	Check cable physical integrity	OK
3	Check cable routing against drawings (segregation, distance, …)	OK
4	Check cable gland suit for cable type	OK
5	Check that Fibre Optic cable and core are correctly tagged against drawings	OK
6	Check correct interconnection as per wiring	OK
7	Check fibres are terminated correctly and secured.	OK
8	Check splicing box and protection adapted to environmental conditions	OK
9	Check End to End link is terminated in Optical Distribution Frame according to type of connectors (SC, ST, etc…).	OK
10	Check that minimum bending radius of fibre optic cables is met in cabinet/patch panel.	OK
11	Check visual installation complete.	OK
12	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-02-03	2025-02-04	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-02-03T13:59:07.005Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-02-04T13:11:28.380Z	

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
001	PASS	General Fiber RL = 35 dB	85.7 m	N/A	31-01-2025 08:58
002	PASS	General Fiber RL = 35 dB	85.7 m	N/A	31-01-2025 08:58
003	PASS	General Fiber RL = 35 dB	85.6 m	N/A	31-01-2025 09:00
004	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:01
005	PASS	General Fiber RL = 35 dB	85.7 m	N/A	31-01-2025 09:25
006	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:20
007	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:24
008	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:25
009	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:28
010	PASS	General Fiber RL = 35 dB	85.6 m	N/A	31-01-2025 09:26
011	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:28
012	PASS	General Fiber RL = 35 dB	85.7 m	N/A	31-01-2025 09:29

Total Length:	1028.8 m
Number of Reports:	12
Number of Passing Reports:	12
Number of Failing Reports:	0
Number of Warning Reports:	0
Documentation Only:	0

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Cable ID: 001

Date / Time: 31-01-2025 08:58:34
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

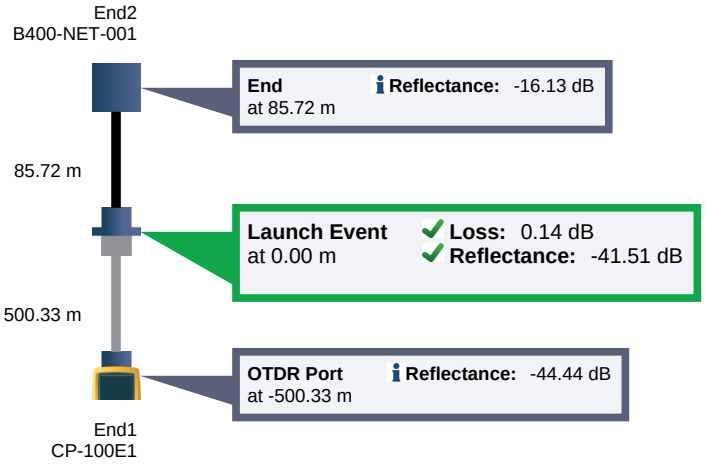
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.72 m
Overall Loss: 0.41 dB

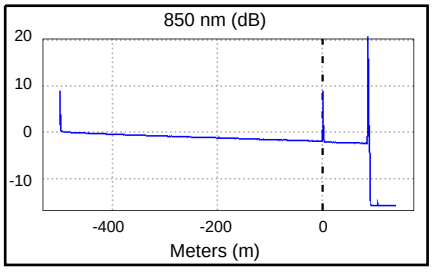


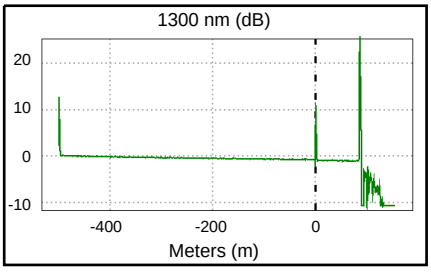
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:42:32
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	656 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.72			
Overall Loss (dB)		0.41		0.20	
ORL (dB)		37.28		42.47	
Events					
85.72 m End					
Reflectance (dB)		-16.13		-16.50	
Attn Coeff (dB/km)		3.24		0.86	

Cable ID: 001

Date / Time: 31-01-2025 08:58:34
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

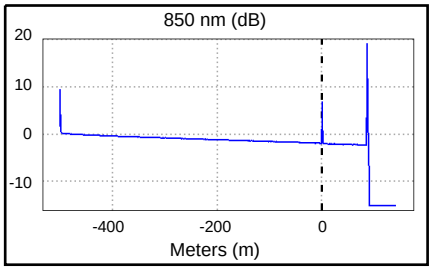
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.14	0.75	0.13	0.75
Reflectance (dB)		-41.51	-35.00	-43.88	-35.00
Attn Coeff (dB/km)		3.93		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-45.45		-44.44	

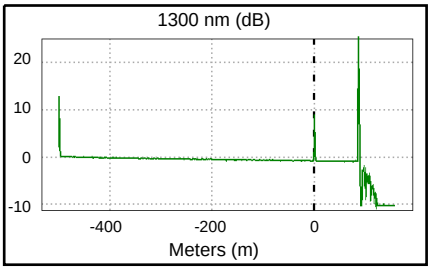
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:58:34
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	659 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.72			
Overall Loss (dB)		0.35		0.08	
ORL (dB)		38.32		44.51	
Events					
85.72 m End					
Reflectance (dB)		-16.53		-17.24	
Attn Coeff (dB/km)		3.21		0.67	
0.00 m Launch Event	PASS				
Loss (dB)		0.07	0.75	0.02	0.75
Reflectance (dB)		-45.81	-35.00	-48.11	-35.00
Attn Coeff (dB/km)		3.93		1.67	
-500.33 m OTDR Port					
Reflectance (dB)		-44.69		-44.07	

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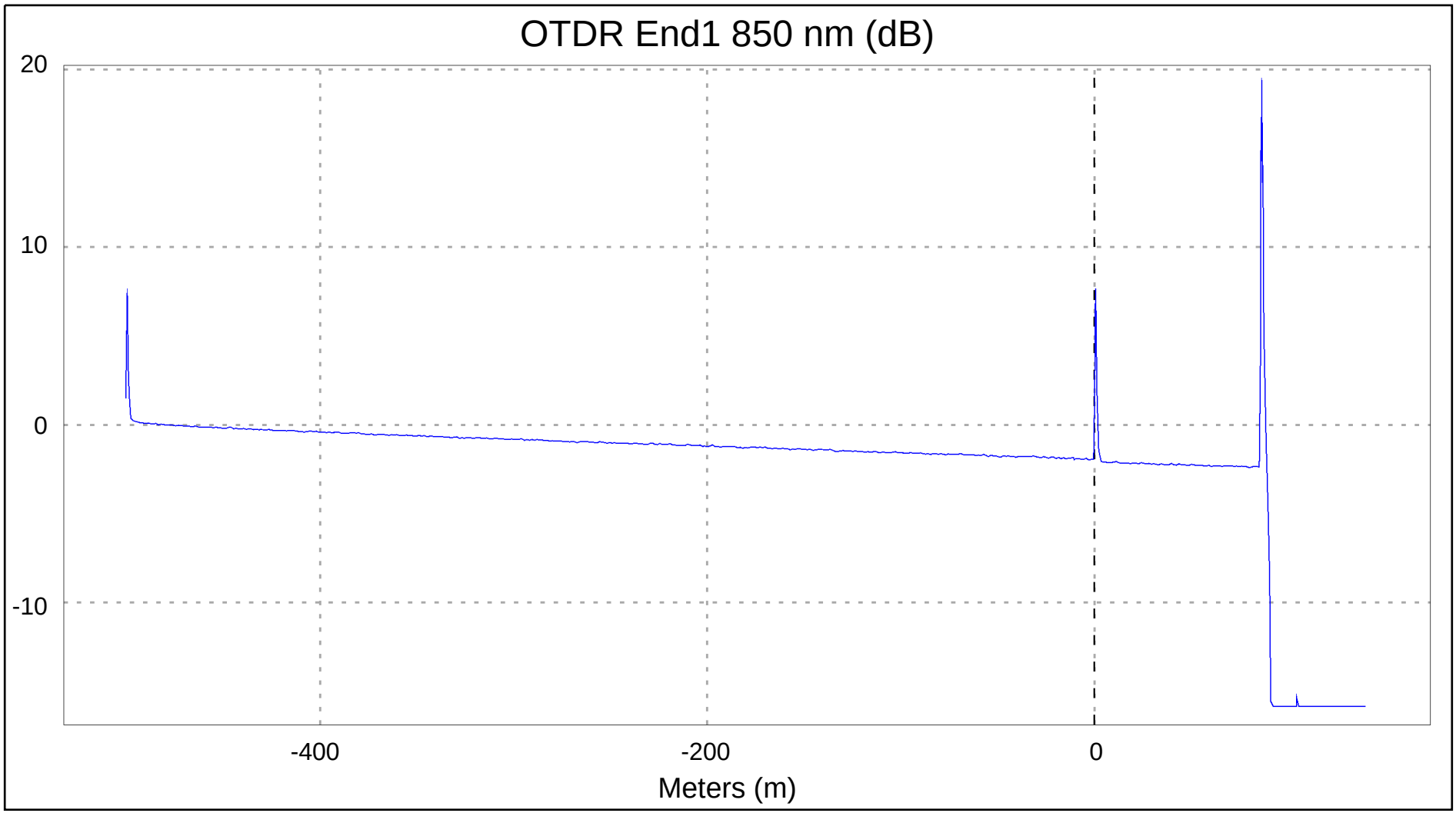
Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 08:58:34
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

FLUKE networks

ROSETTI MARINO

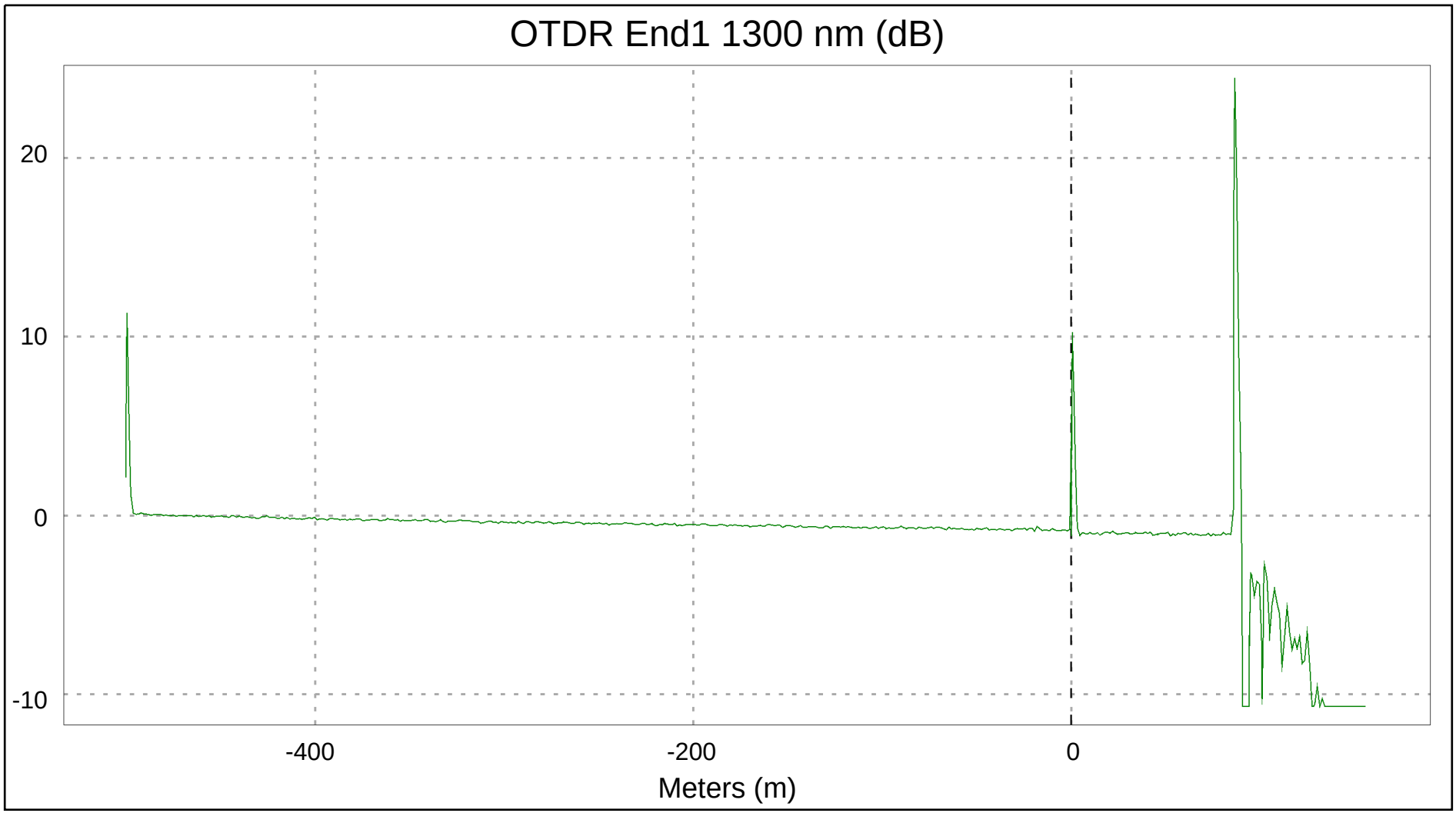
Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 08:58:34
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

ROSETTI MARINO

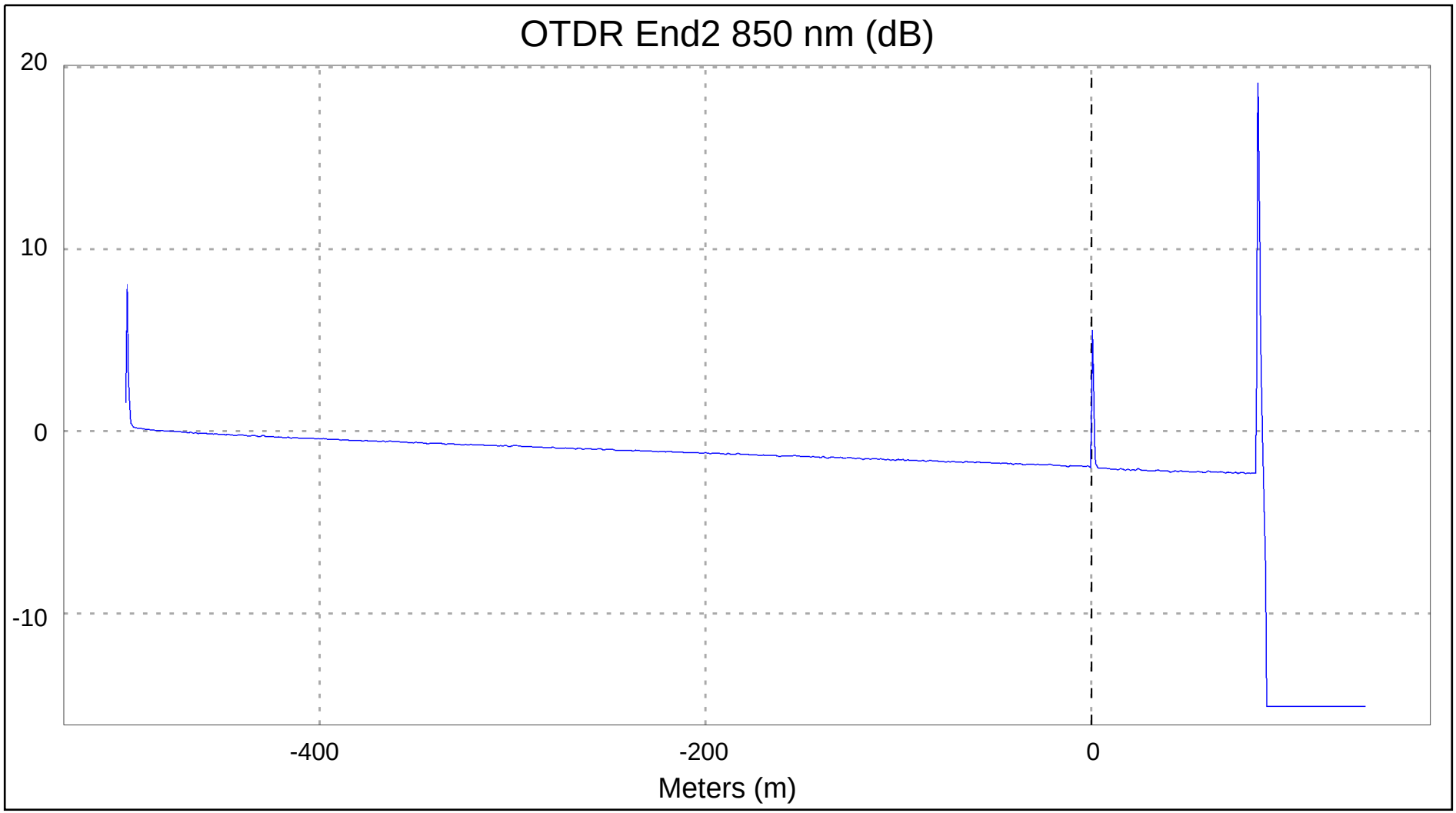
Cable ID: 001

Date / Time: 31-01-2025 08:58:34
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

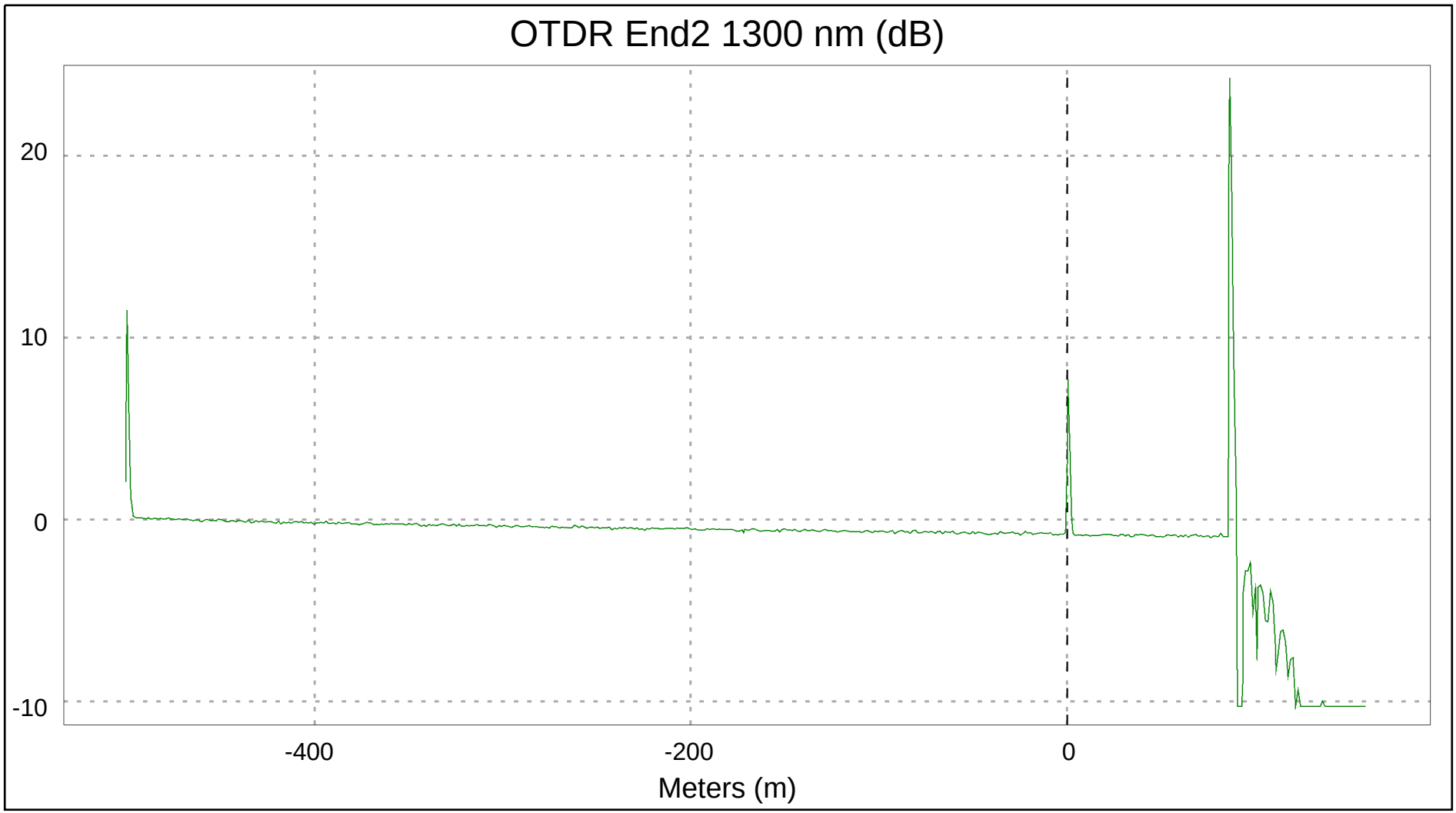
Cable ID: 001

Date / Time: 31-01-2025 08:58:34
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

Cable ID: 002

Date / Time: 31-01-2025 08:58:56
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

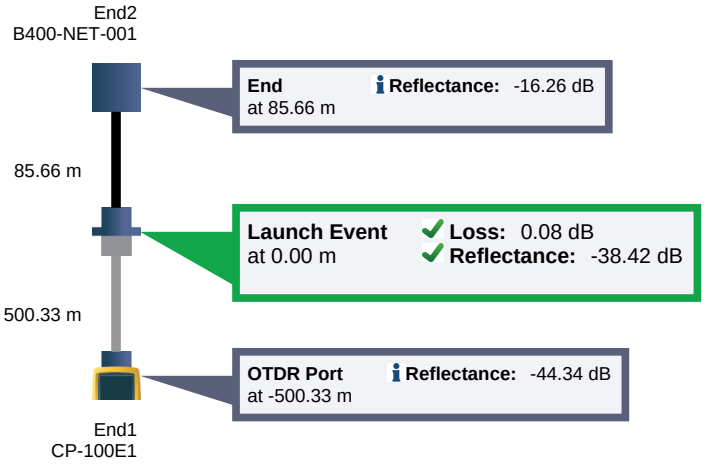
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.66 m
Overall Loss: 0.34 dB

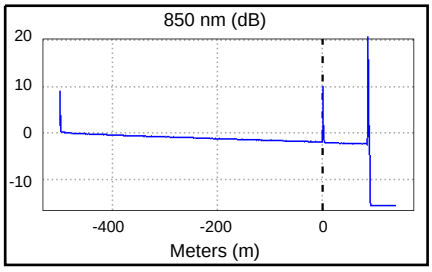


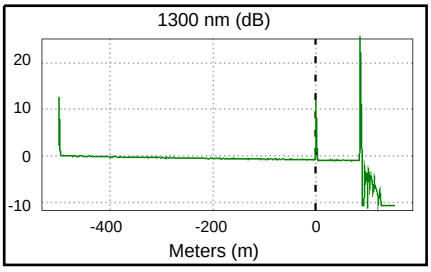
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:43:19
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	655 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.66			
Overall Loss (dB)		0.34		0.11	
ORL (dB)		36.51		41.53	
Events					
85.66 m End					
Reflectance (dB)		-16.26		-16.76	
Attn Coeff (dB/km)		3.11		0.39	

Cable ID: 002

Date / Time: 31-01-2025 08:58:56
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

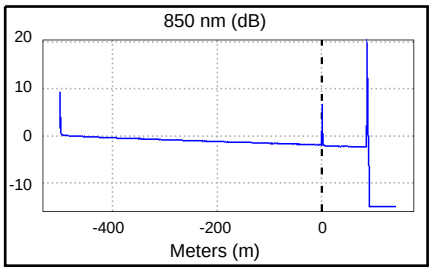
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.08	0.75	0.07	0.75
Reflectance (dB)		-38.42	-35.00	-42.57	-35.00
Attn Coeff (dB/km)		3.93		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-45.34		-44.34	

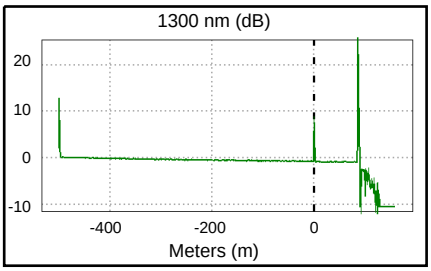
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:58:56
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	660 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.69			
Overall Loss (dB)		0.38		0.08	
ORL (dB)		38.42		44.66	
Events					
85.69 m End					
Reflectance (dB)		-15.96		-16.51	
Attn Coeff (dB/km)		2.78		0.43	
0.00 m Launch Event	PASS				
Loss (dB)		0.14	0.75	0.04	0.75
Reflectance (dB)		-45.89	-35.00	-48.47	-35.00
Attn Coeff (dB/km)		3.93		1.67	
-500.33 m OTDR Port					
Reflectance (dB)		-44.69		-44.18	

ROSETTI MARINO

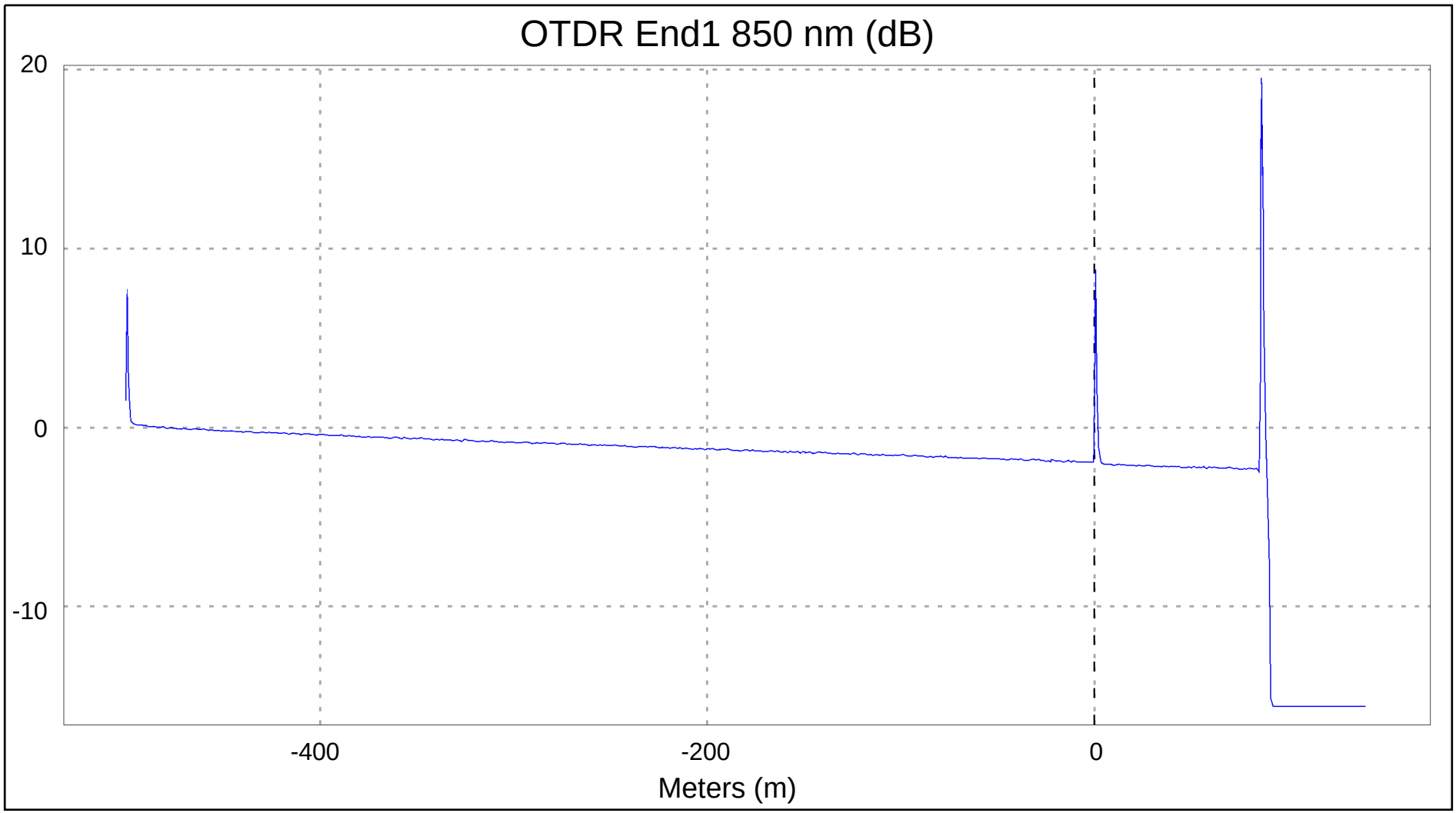
Cable ID: 002

Date / Time: 31-01-2025 08:58:56
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

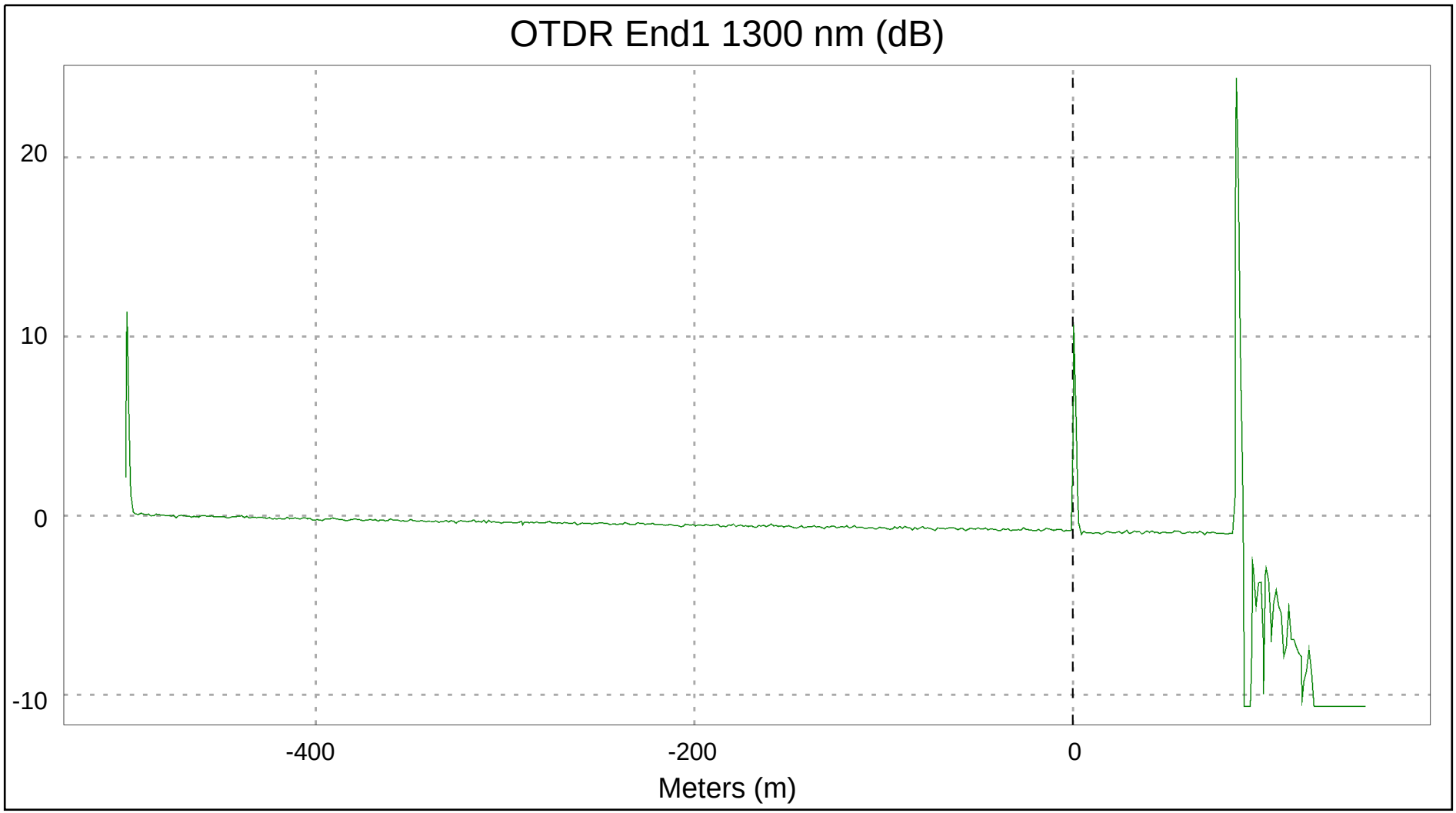
Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 08:58:56
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

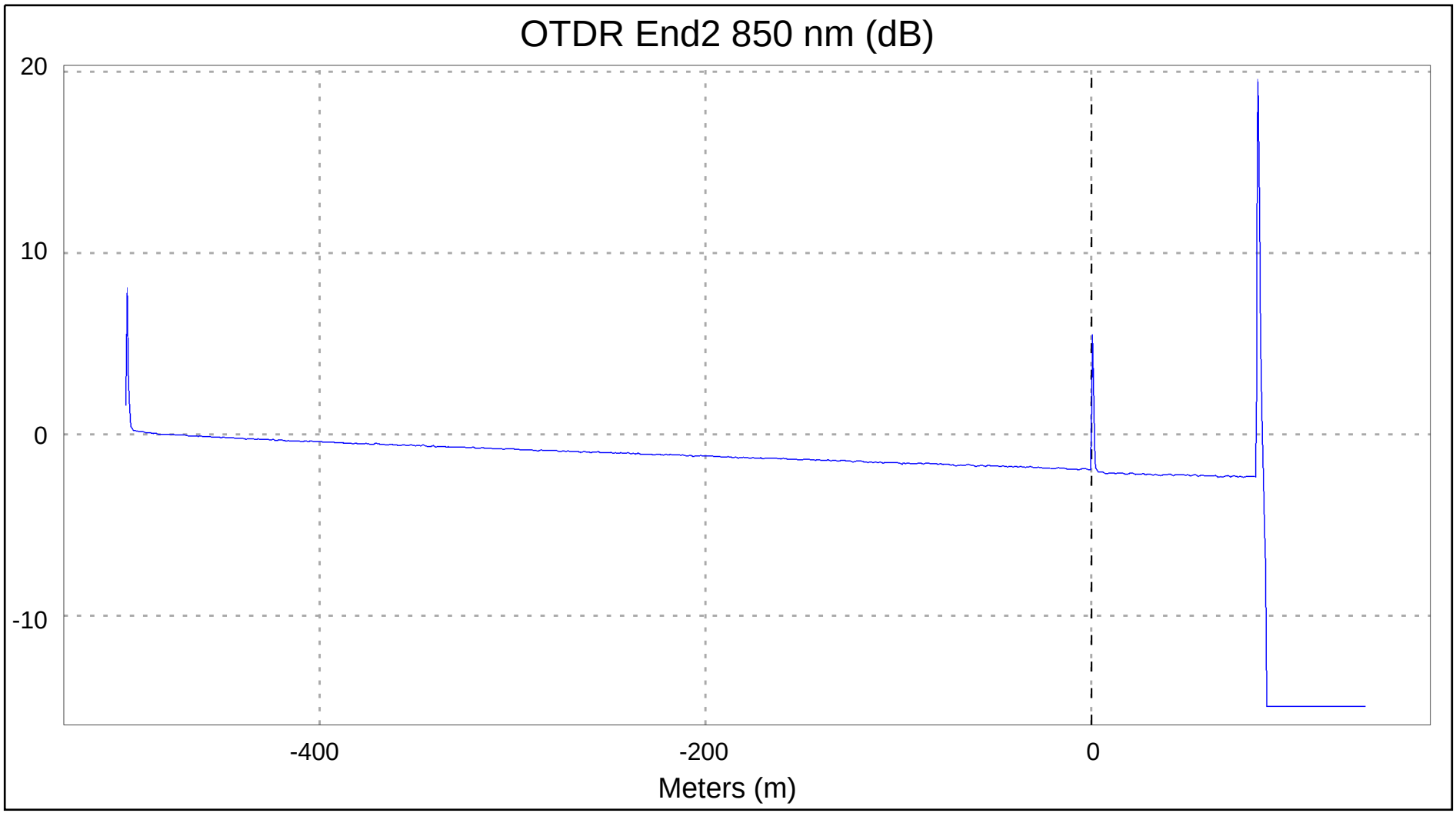
Cable ID: 002

Date / Time: 31-01-2025 08:58:56
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

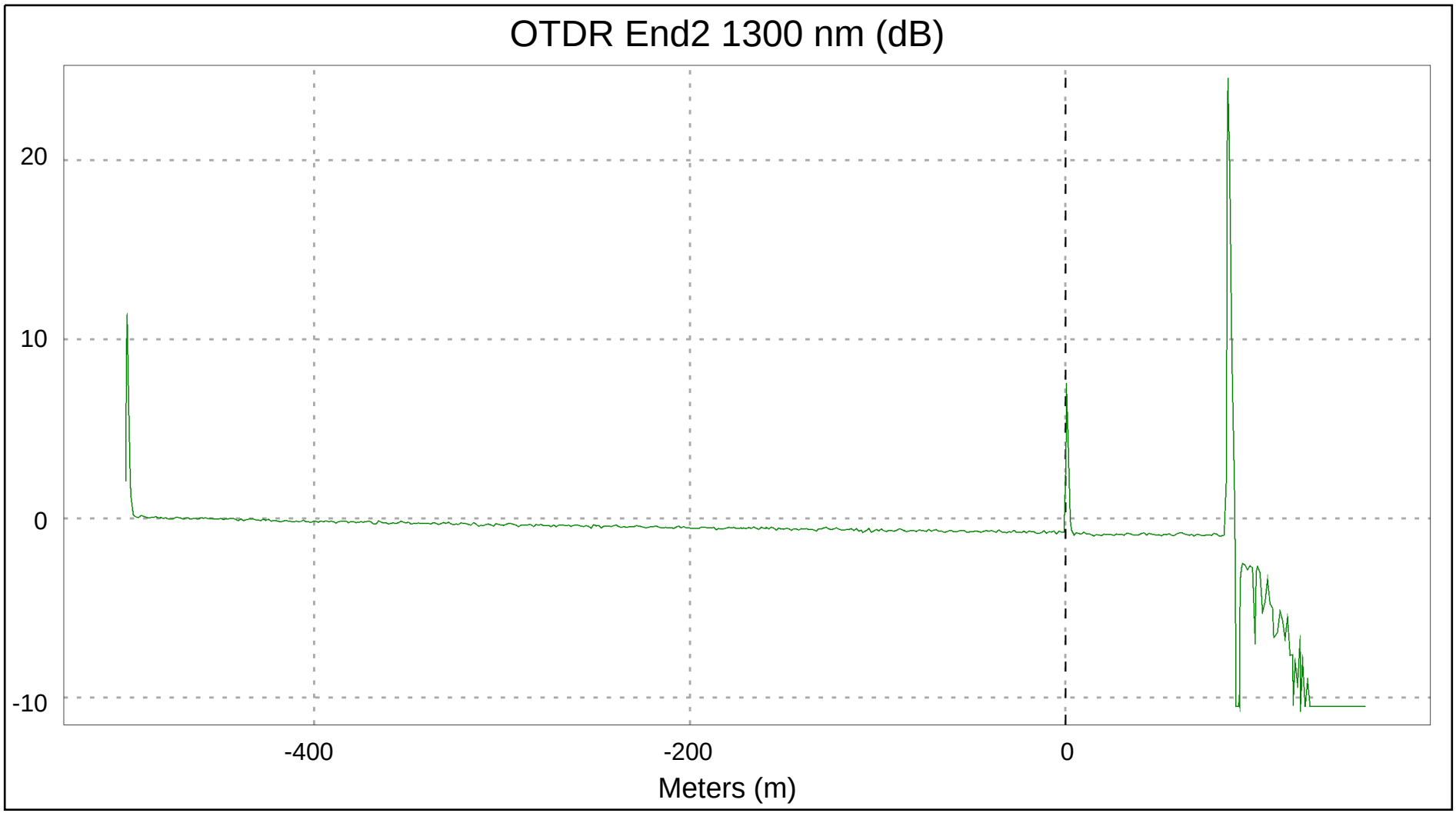
Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 08:58:56
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 003

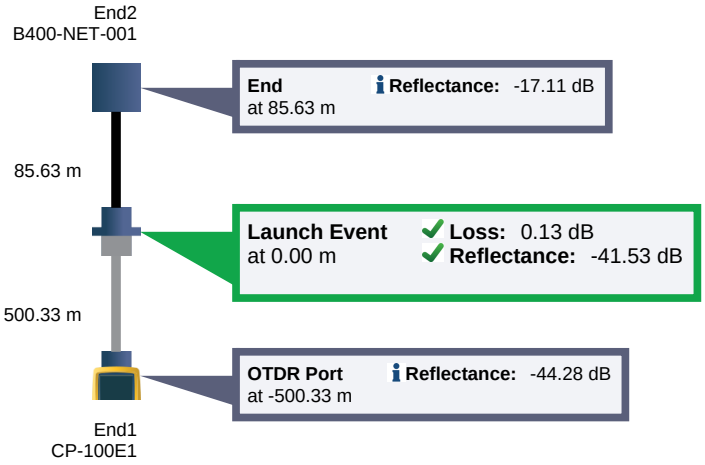
Date / Time: 31-01-2025 09:00:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.63 m
Overall Loss: 0.34 dB

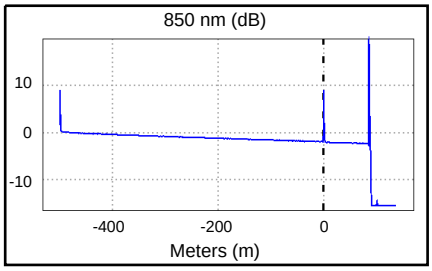


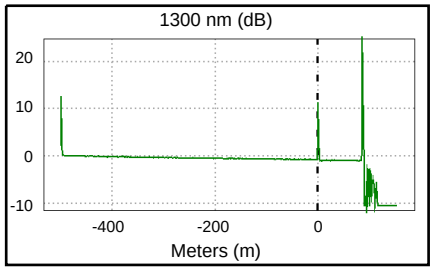
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:43:44
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	639 m	655 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.63			
Overall Loss (dB)		0.34		0.16	
ORL (dB)		37.22		42.41	
Events					
85.63 m End					
Reflectance (dB)		-17.11		-17.53	
Attn Coeff (dB/km)		3.03		0.36	

Cable ID: 003

Date / Time: 31-01-2025 09:00:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

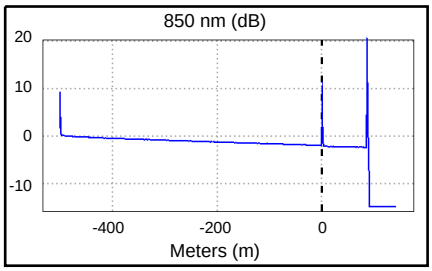
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.08	0.75	0.13	0.75
Reflectance (dB)		-41.53	-35.00	-43.83	-35.00
Attn Coeff (dB/km)		3.93		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-45.22		-44.28	

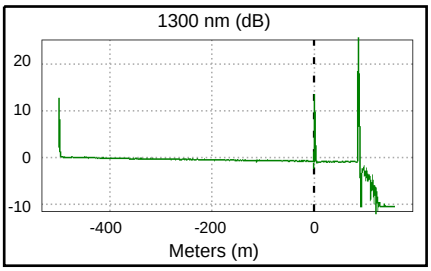
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:00:42
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	659 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.63			
Overall Loss (dB)		0.34		0.08	
ORL (dB)		34.78		38.70	
Events					
85.63 m End					
Reflectance (dB)		-16.14		-16.73	
Attn Coeff (dB/km)		2.38		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.13	0.75	0.00	0.75
Reflectance (dB)		-35.47	-35.00	-38.90	-35.00
Attn Coeff (dB/km)		3.95		1.67	
-500.33 m OTDR Port					
Reflectance (dB)		-44.54		-44.10	

ROSETTI MARINO

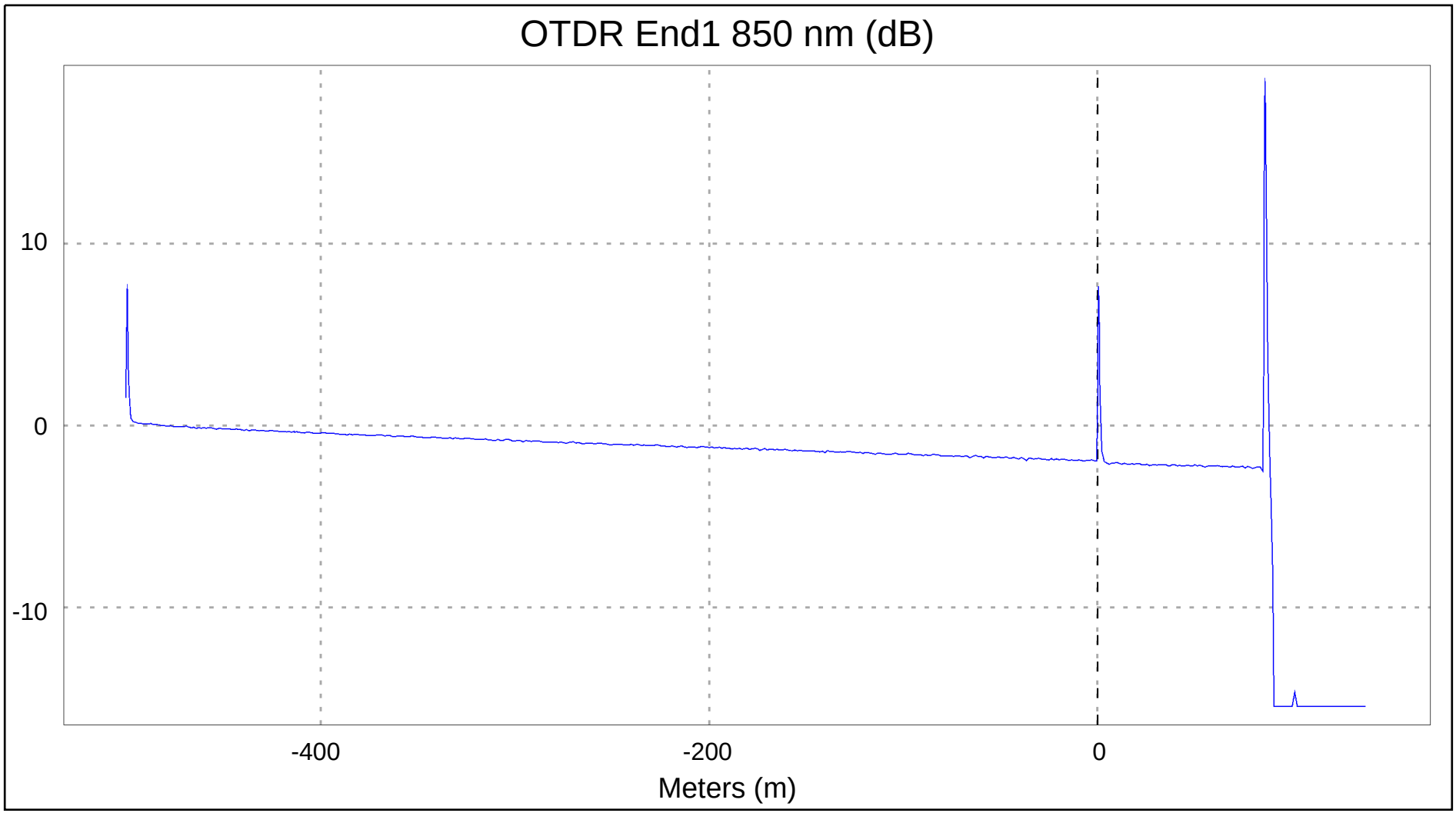
Cable ID: 003

Date / Time: 31-01-2025 09:00:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

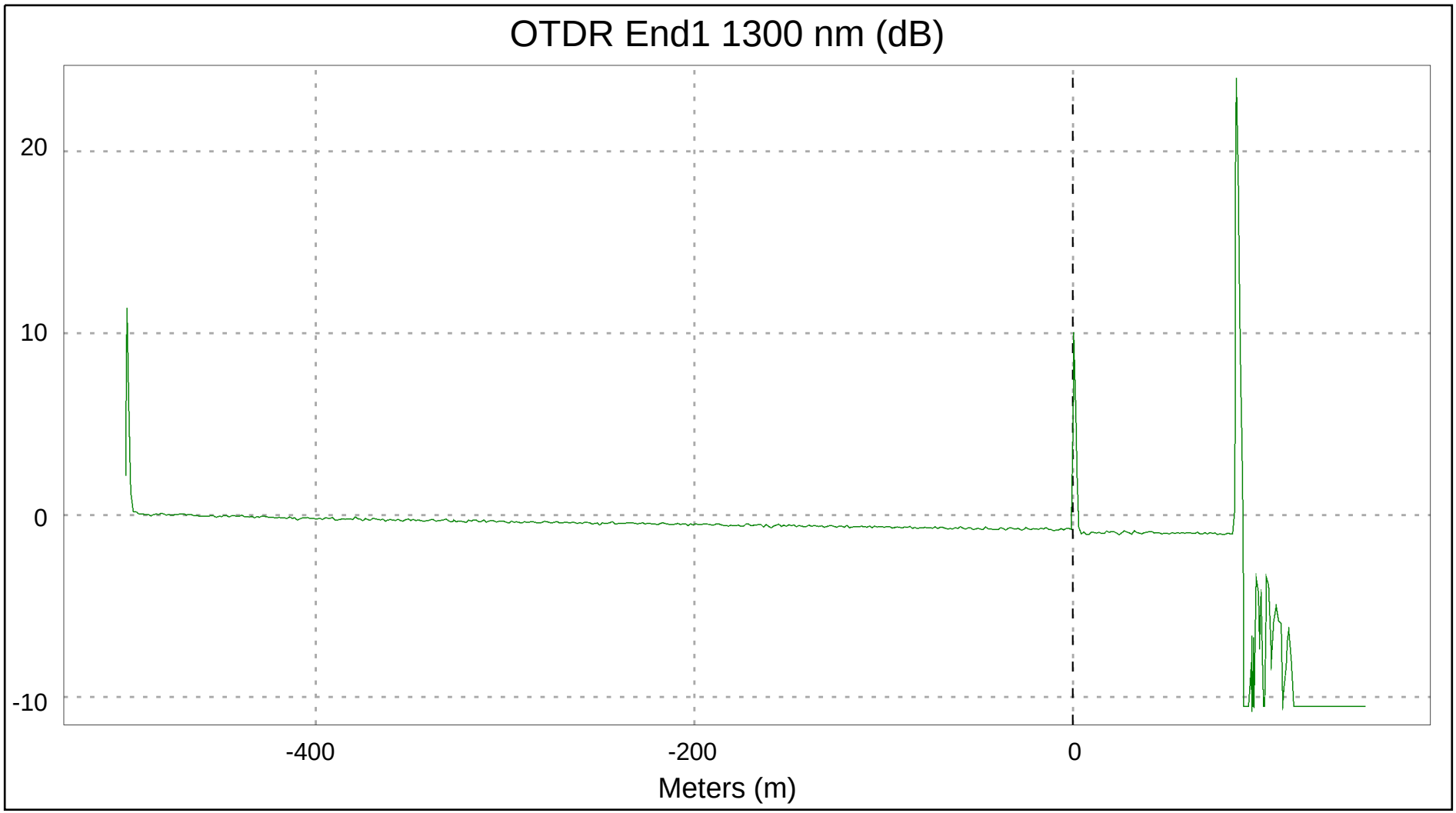
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 09:00:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

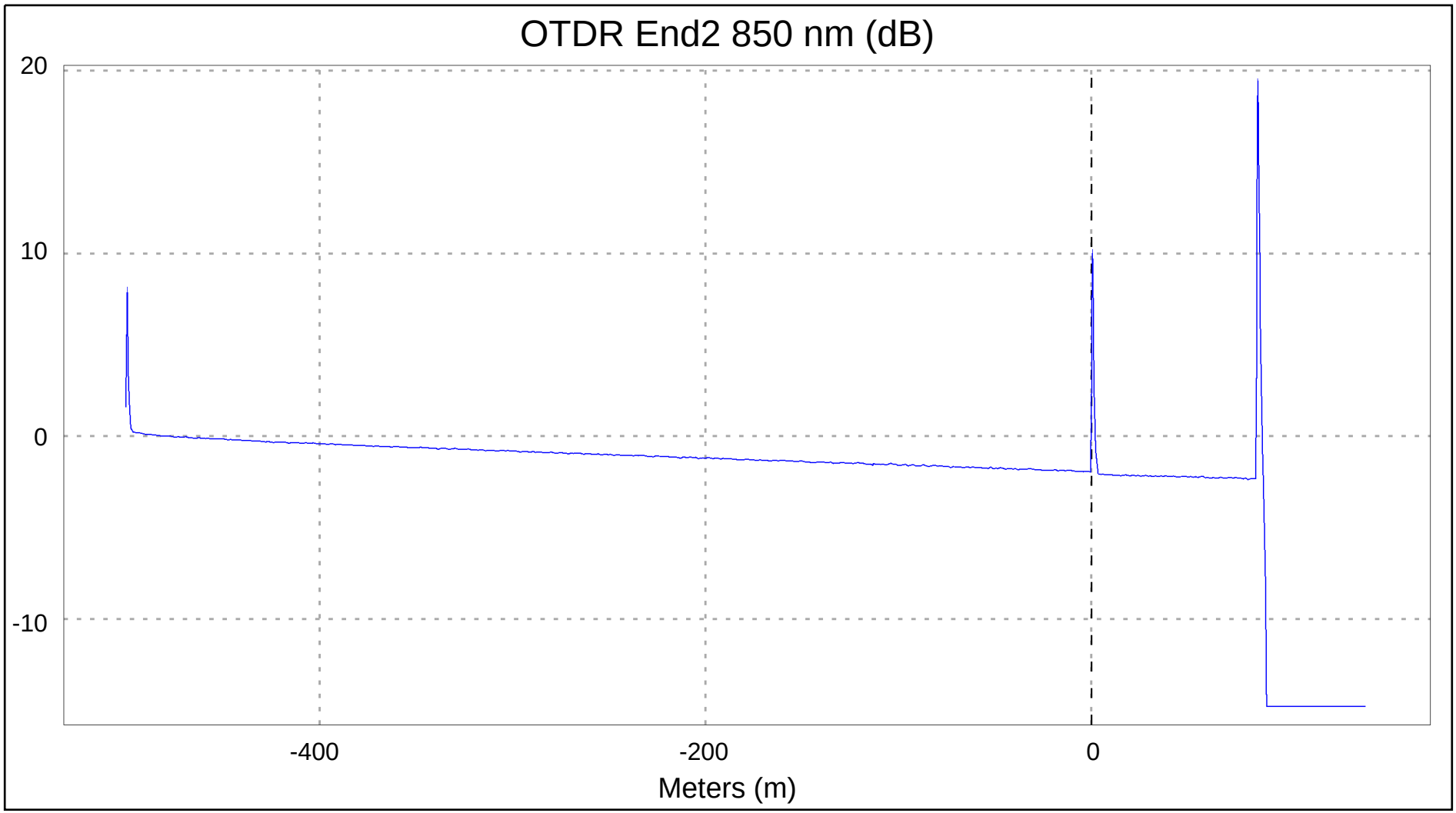
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 09:00:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

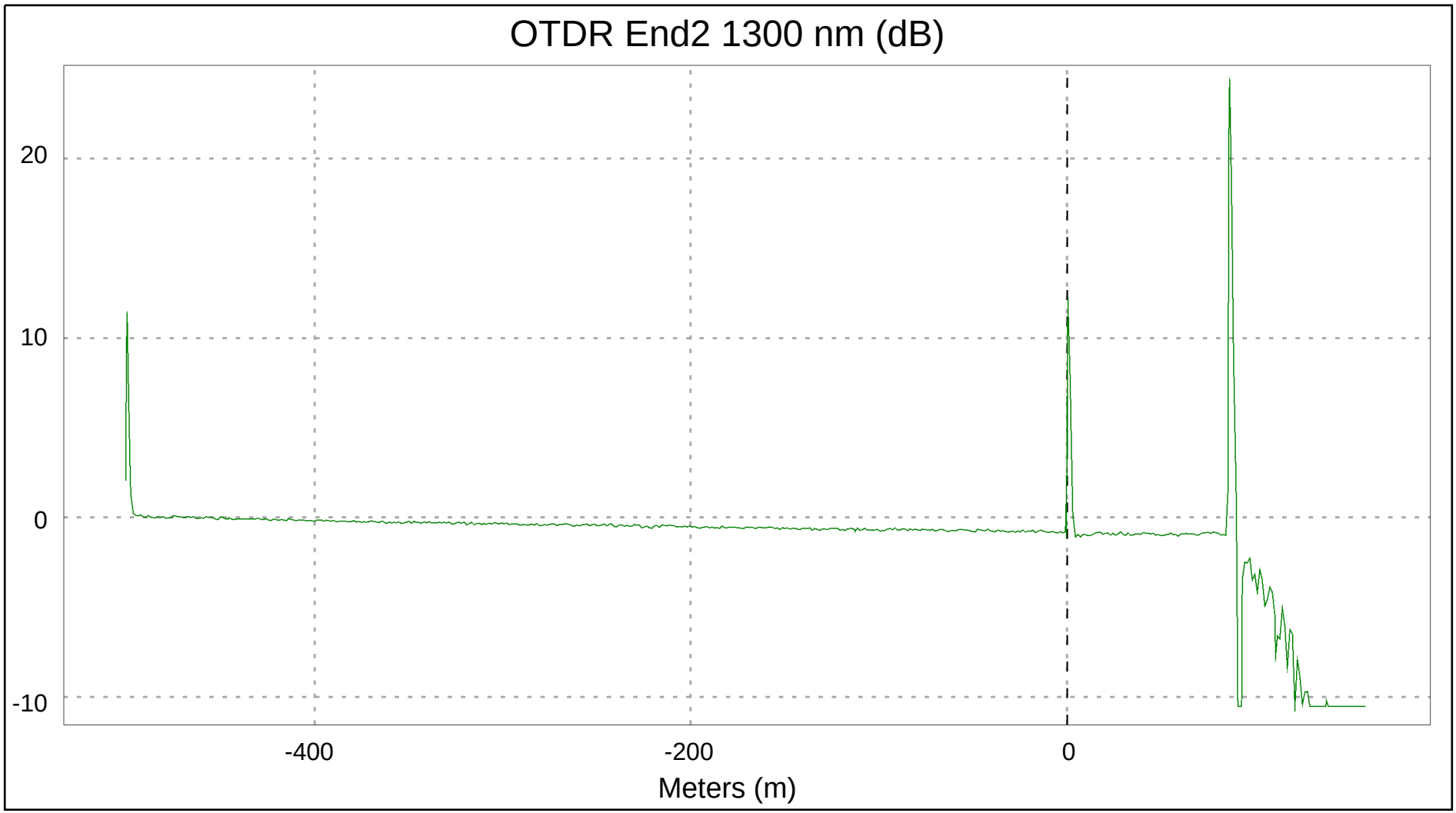
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 09:00:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 004

Date / Time: 31-01-2025 09:01:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

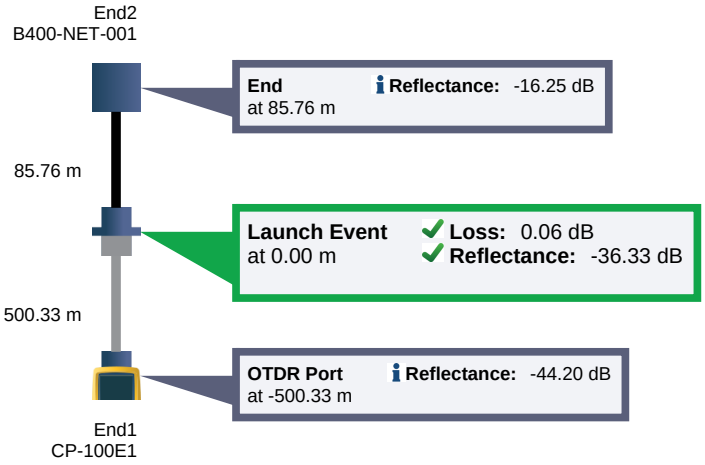
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.76 m
Overall Loss: 0.31 dB

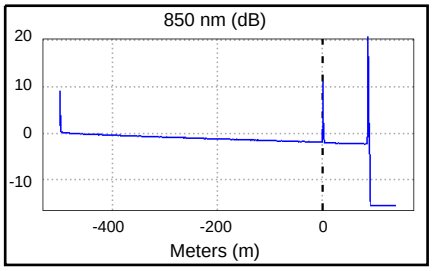


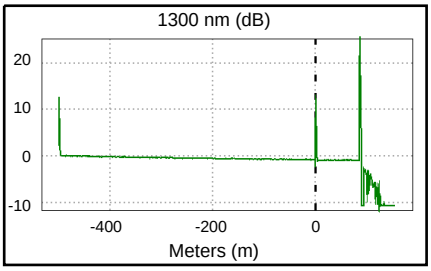
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:44:16
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	656 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.31		0.10	
ORL (dB)		35.34		40.18	
Events					
85.76 m End					
Reflectance (dB)		-16.25		-16.78	
Attn Coeff (dB/km)		2.88		1.00	

Cable ID: 004

Date / Time: 31-01-2025 09:01:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

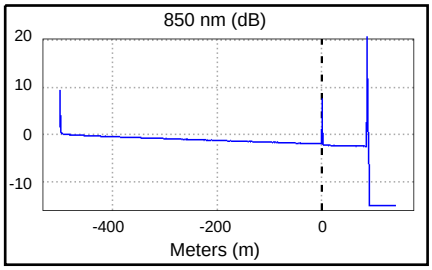
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.06	0.75	0.01	0.75
Reflectance (dB)		-36.33	-35.00	-40.76	-35.00
Attn Coeff (dB/km)		3.95		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-45.09		-44.20	

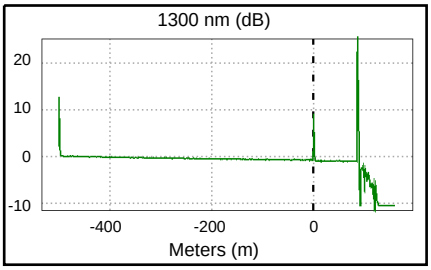
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:01:01
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	661 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.46		0.18	
ORL (dB)		38.18		44.54	
Events					
85.76 m End					
Reflectance (dB)		-16.10		-16.67	
Attn Coeff (dB/km)		2.50		0.30	
0.00 m Launch Event	PASS				
Loss (dB)		0.25	0.75	0.16	0.75
Reflectance (dB)		-44.01	-35.00	-47.82	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.54		-44.15	

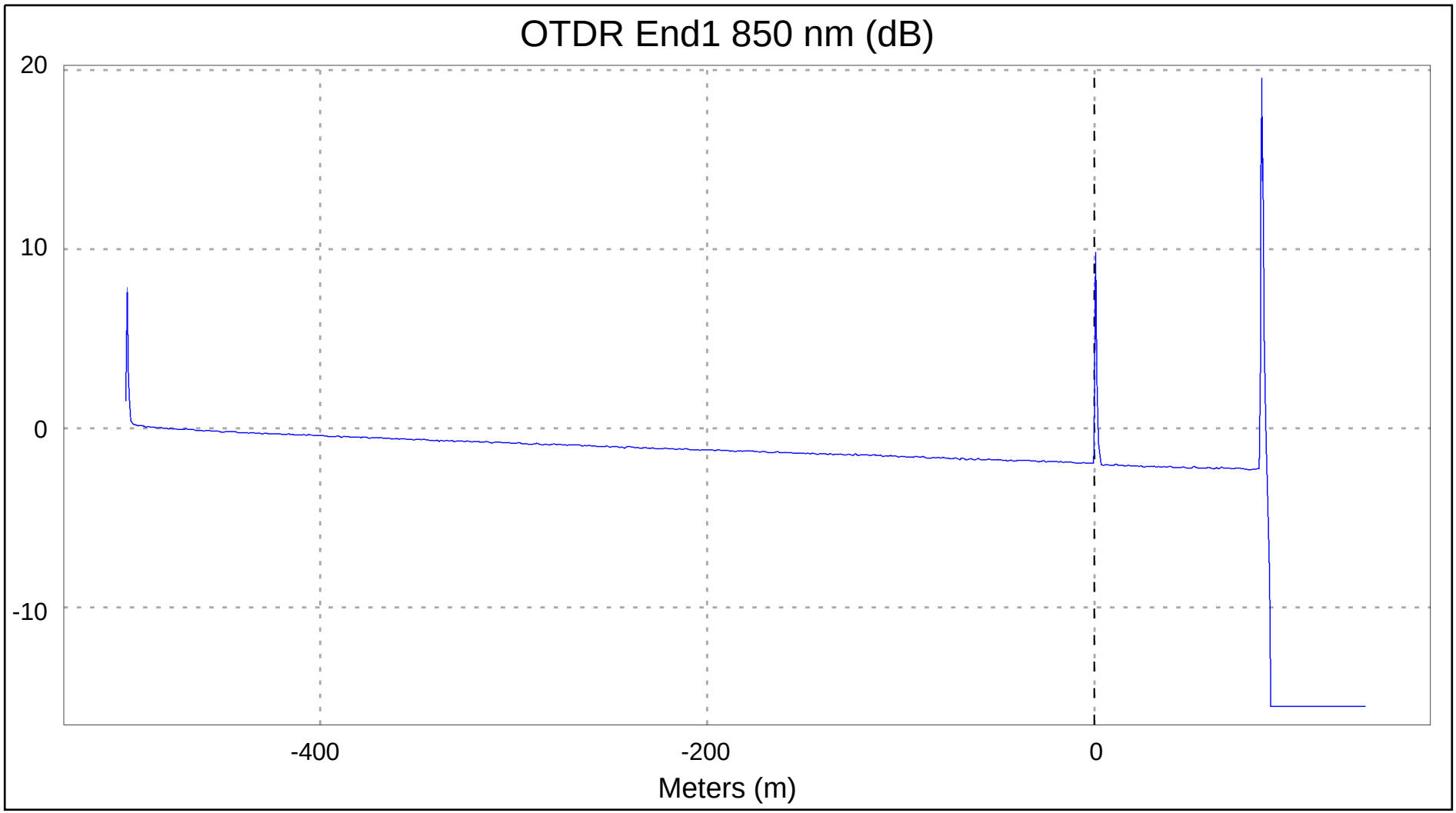
Cable ID: 004

Date / Time: 31-01-2025 09:01:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

ROSETTI MARINO

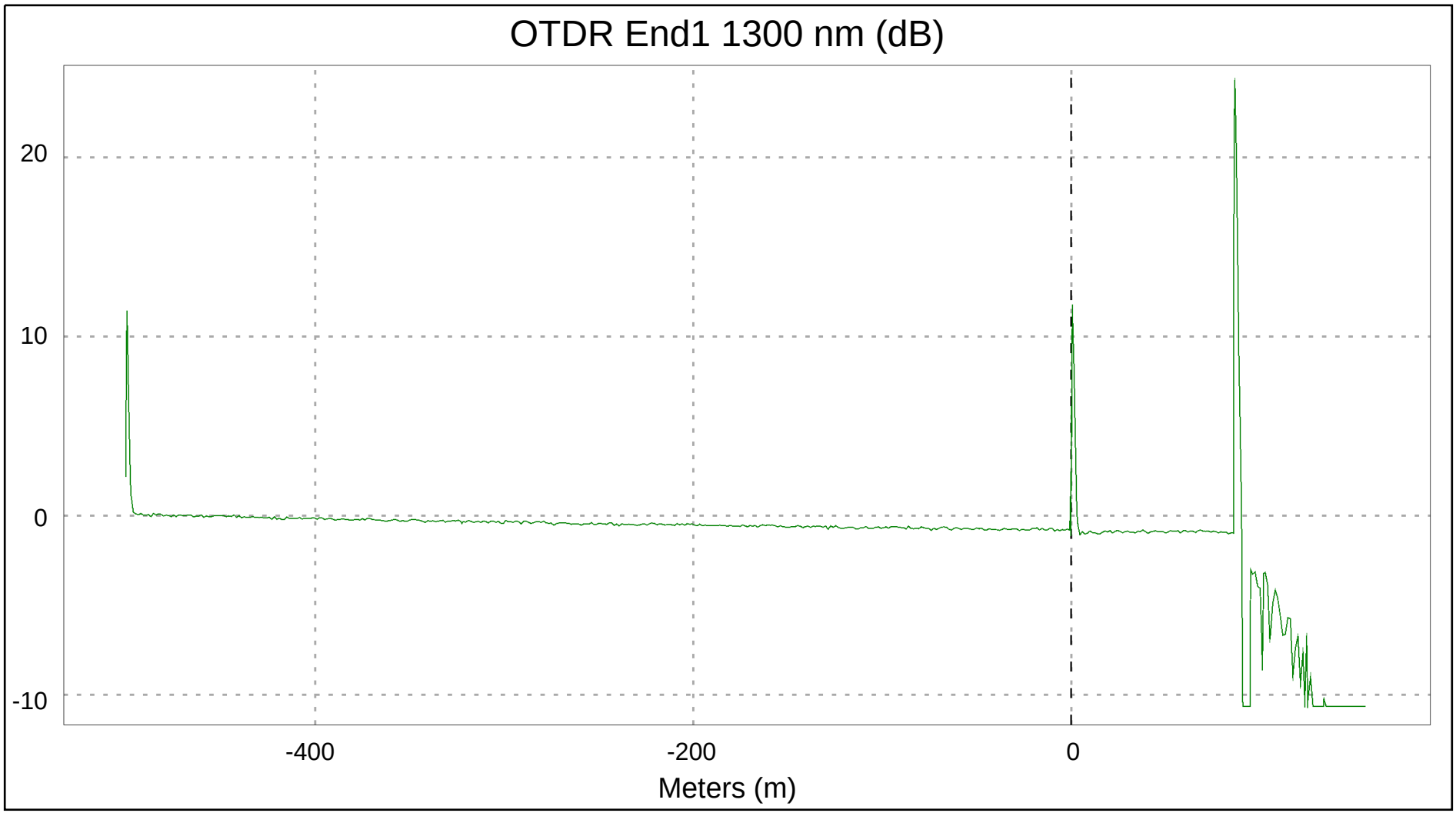
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 09:01:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

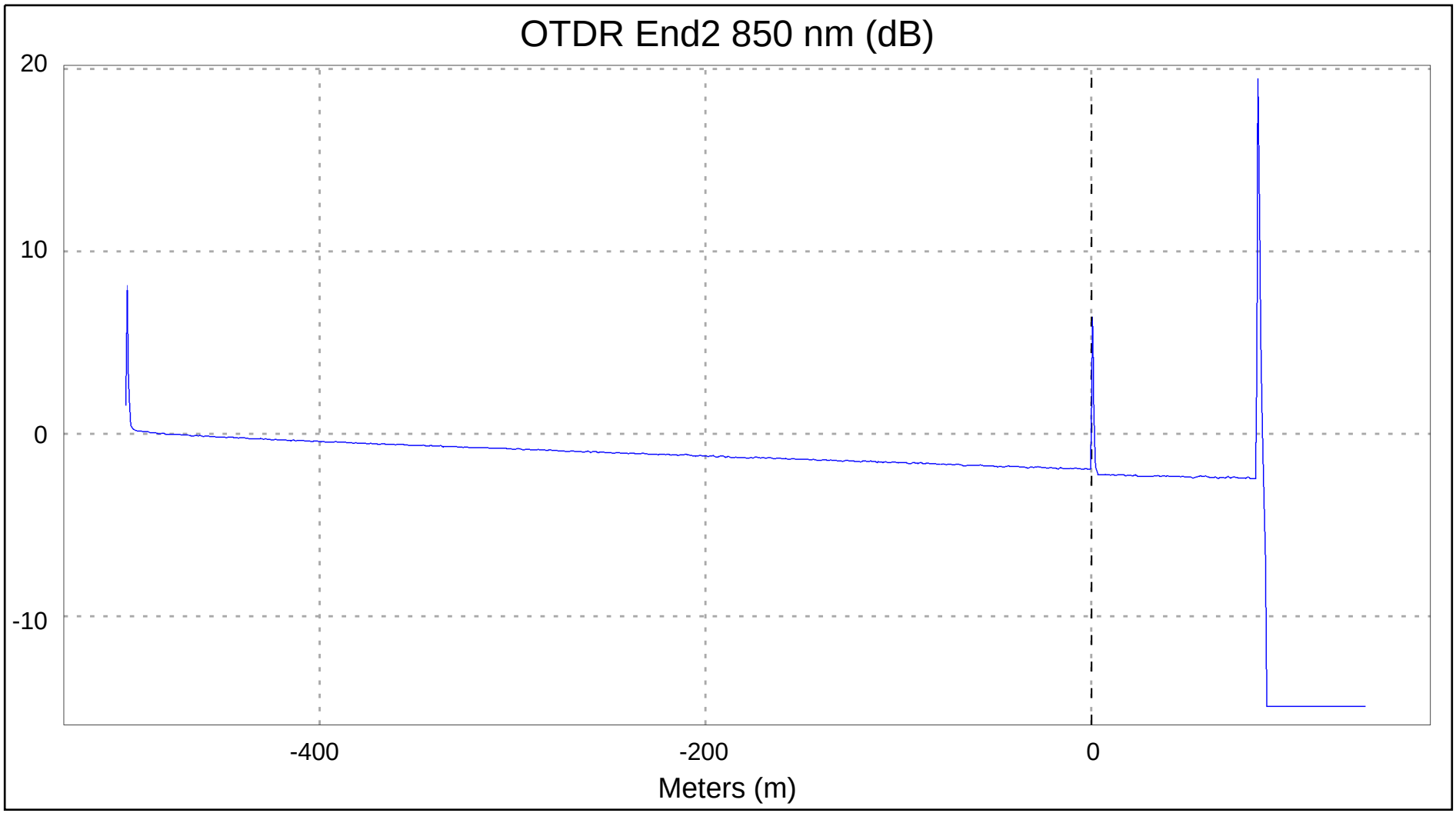
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 09:01:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

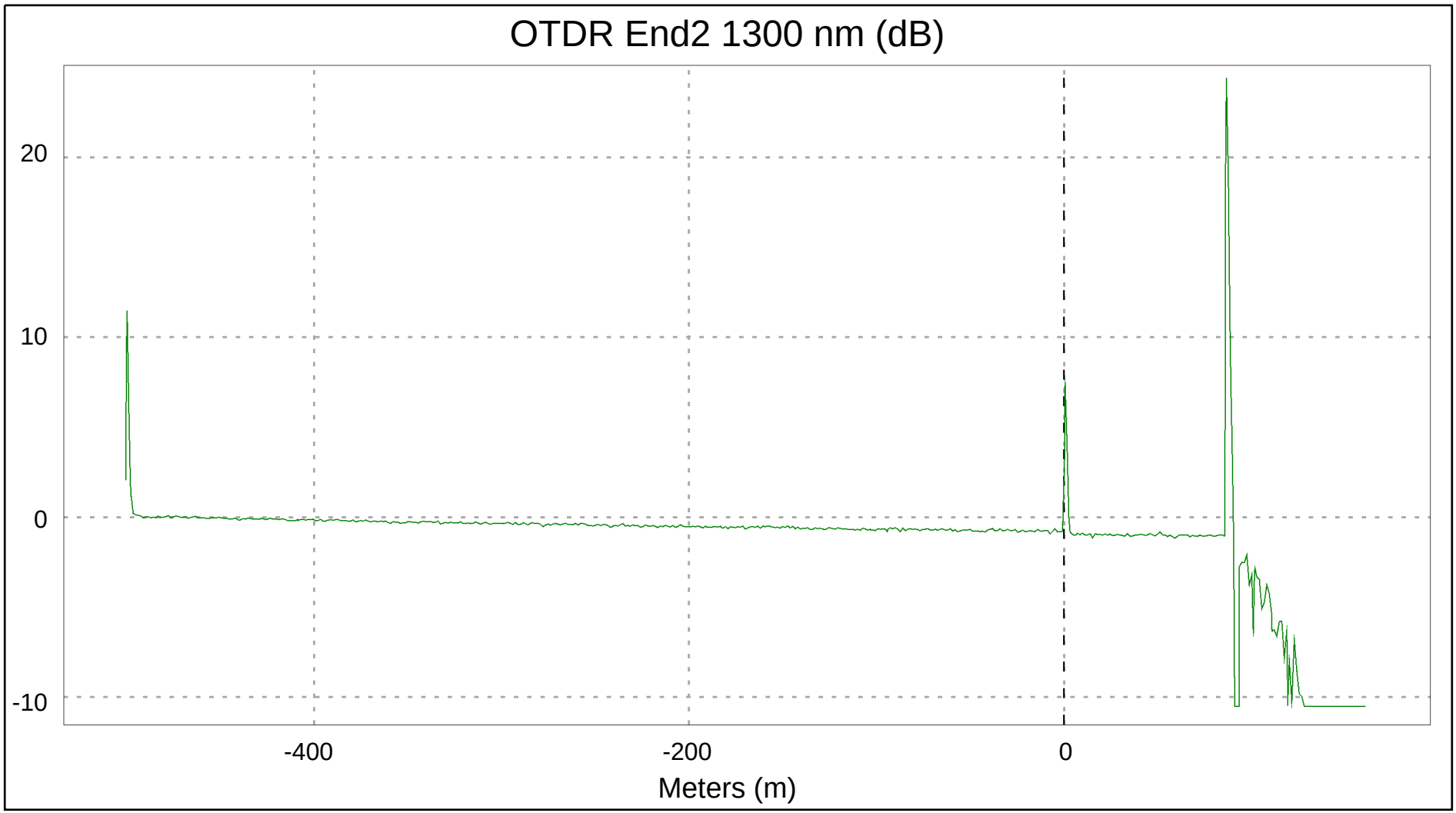
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 09:01:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

ROSETTI MARINO

Cable ID: 005

Date / Time: 31-01-2025 09:25:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

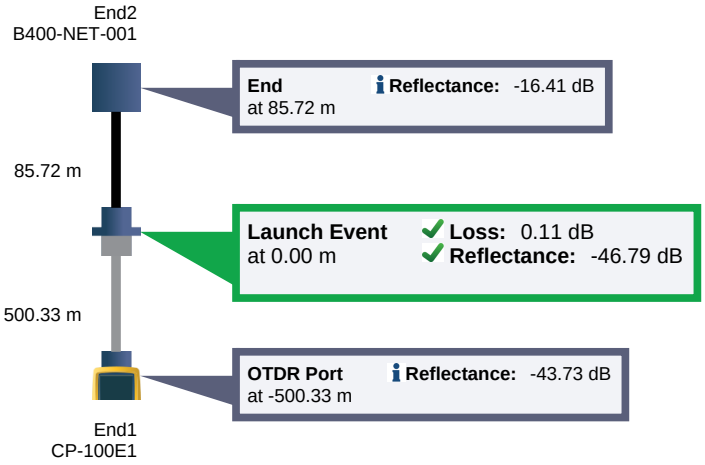
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.72 m
Overall Loss: 0.38 dB

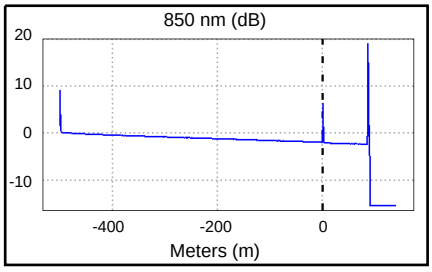


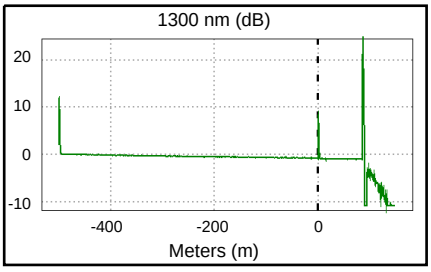
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:46:54
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	649 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	5 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.72			
Overall Loss (dB)		0.38		0.17	
ORL (dB)		38.52		44.94	
Events					
85.72 m End					
Reflectance (dB)		-16.41		-16.42	
Attn Coeff (dB/km)		3.12		0.85	

Cable ID: 005

Date / Time: 31-01-2025 09:25:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

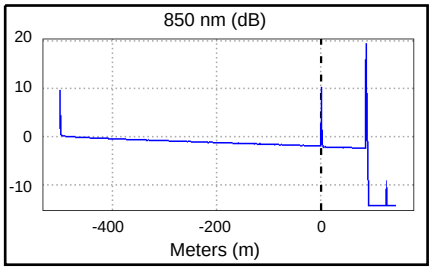
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.11	0.75	0.09	0.75
Reflectance (dB)		-46.79	-35.00	-48.53	-35.00
Attn Coeff (dB/km)		3.95		1.70	
-500.33 m OTDR Port					
Reflectance (dB)		-45.13		-43.73	

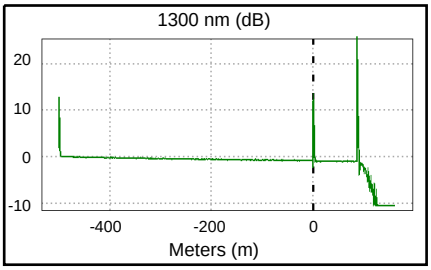
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:25:45
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.72			
Overall Loss (dB)		0.39		0.10	
ORL (dB)		35.96		37.97	
Events					
85.72 m End					
Reflectance (dB)		-15.89		-16.51	
Attn Coeff (dB/km)		2.98		0.30	
0.00 m Launch Event	PASS				
Loss (dB)		0.14	0.75	0.08	0.75
Reflectance (dB)		-38.43	-35.00	-38.05	-35.00
Attn Coeff (dB/km)		3.95		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-44.18		-43.95	

ROSETTI MARINO

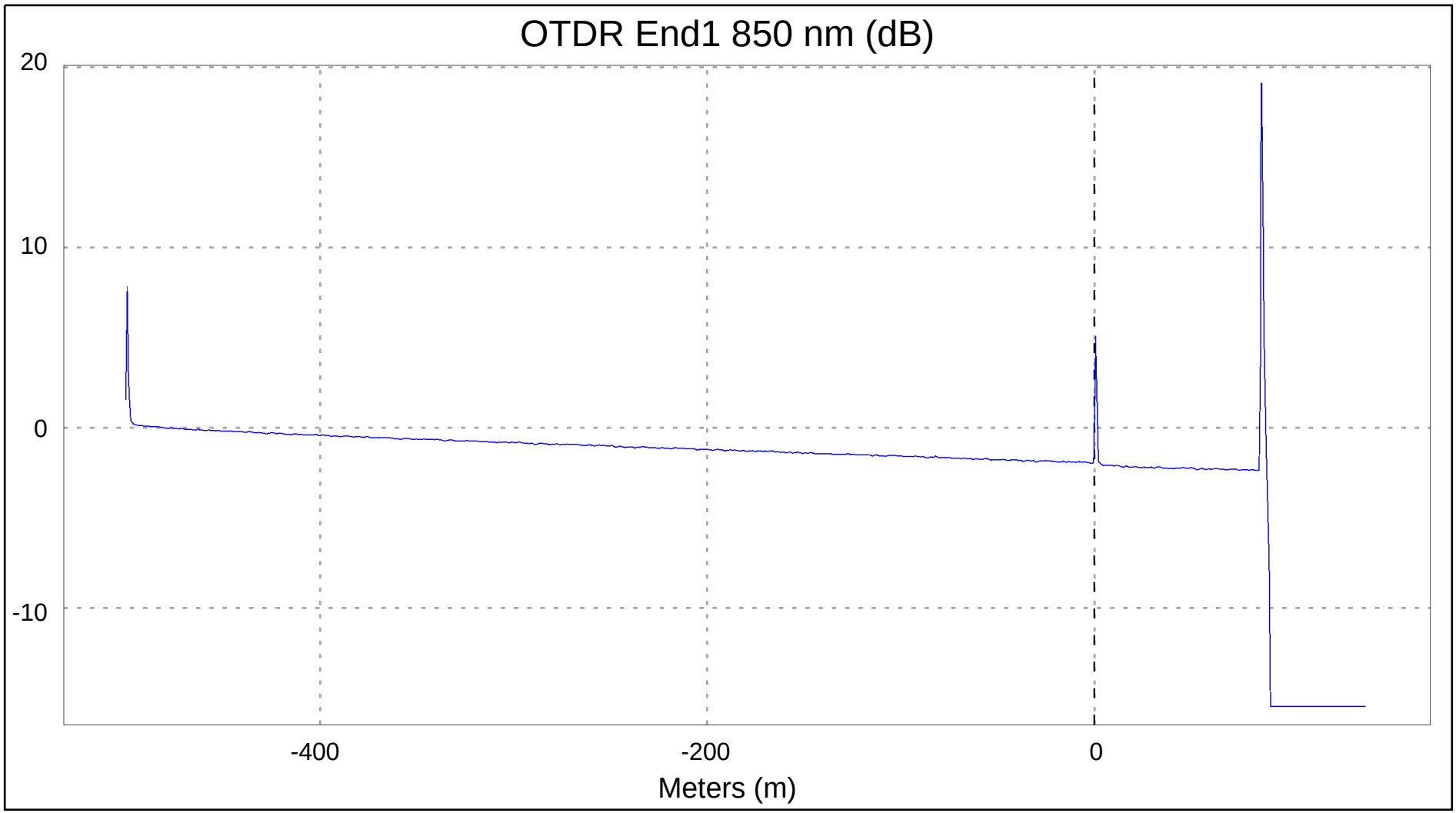
Cable ID: 005

Date / Time: 31-01-2025 09:25:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

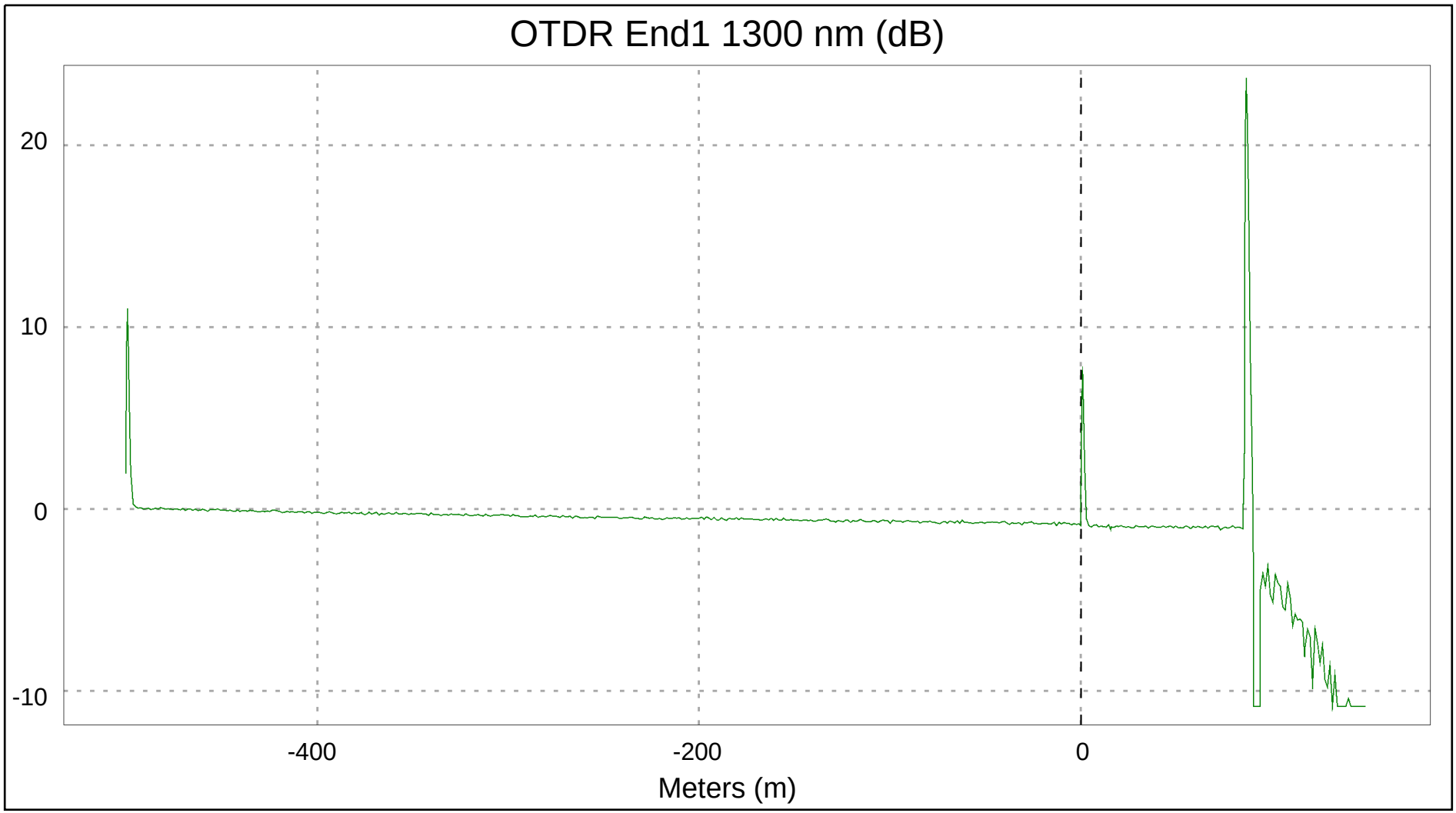
Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 09:25:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

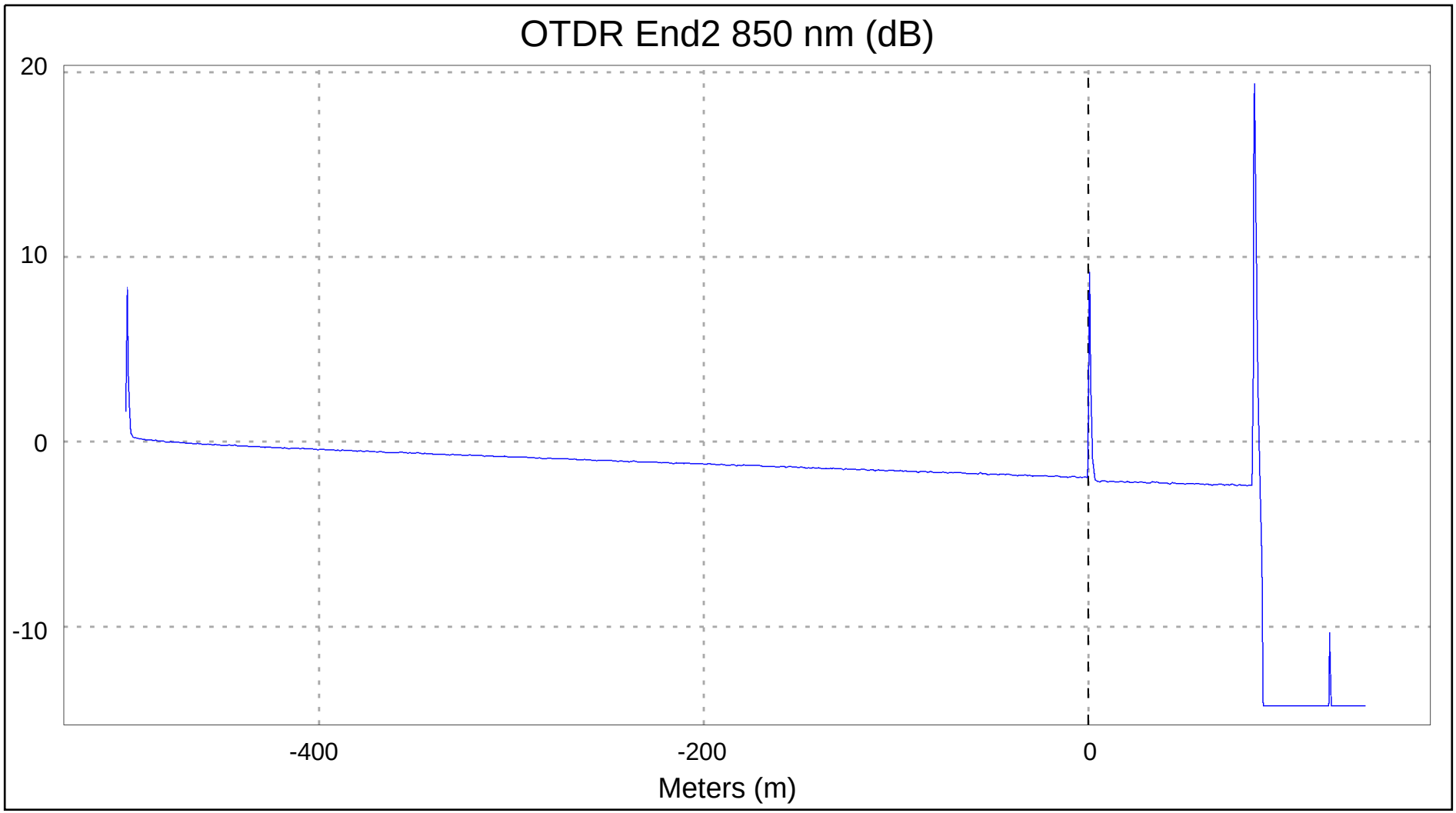
Cable ID: 005

Date / Time: 31-01-2025 09:25:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

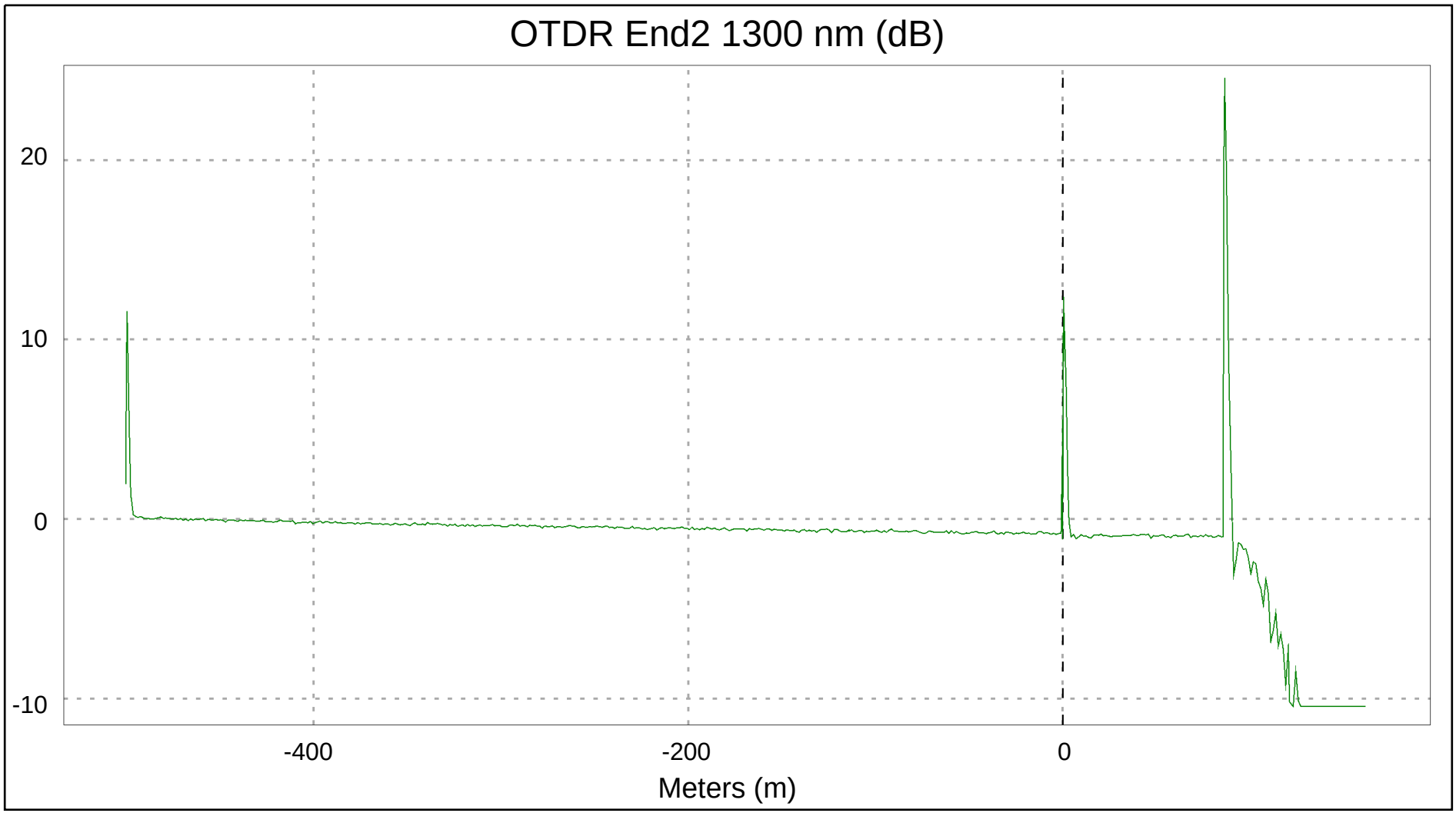
Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 09:25:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 006

Date / Time: 31-01-2025 09:20:47
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

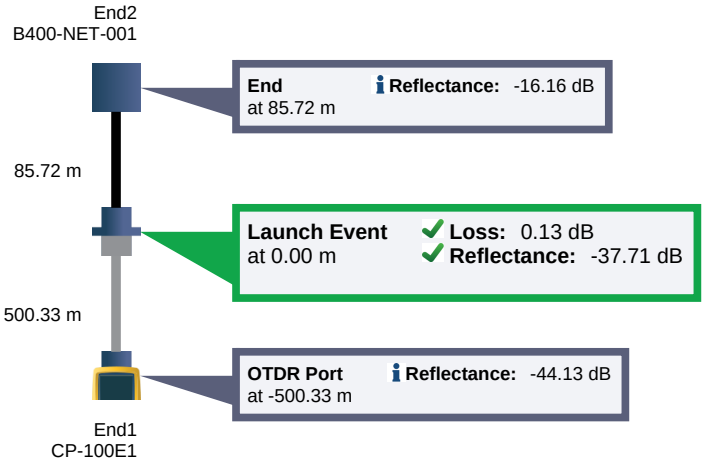
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.72 m
Overall Loss: 0.38 dB

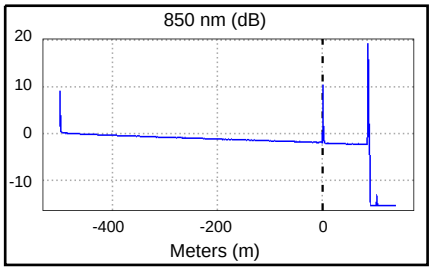


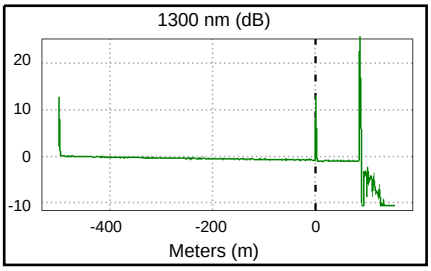
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:47:15
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	656 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.72			
Overall Loss (dB)		0.38		0.17	
ORL (dB)		36.17		40.73	
Events					
85.72 m End					
Reflectance (dB)		-16.16		-16.42	
Attn Coeff (dB/km)		3.30		0.46	

Cable ID: 006

Date / Time: 31-01-2025 09:20:47
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

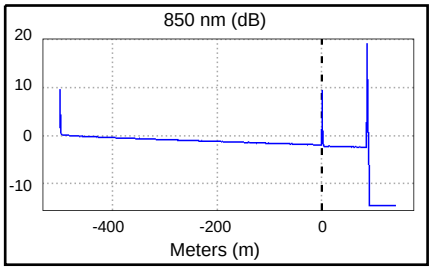
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.10	0.75	0.13	0.75
Reflectance (dB)		-37.71	-35.00	-41.43	-35.00
Attn Coeff (dB/km)		3.95		1.67	
-500.33 m OTDR Port					
Reflectance (dB)		-45.11		-44.13	

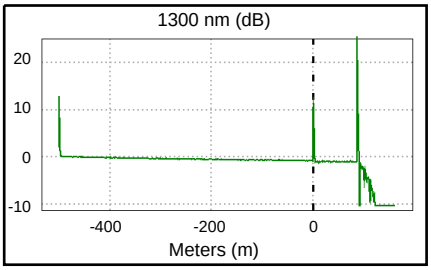
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:20:47
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.45		0.17	
ORL (dB)		36.91		39.78	
Events					
85.76 m End					
Reflectance (dB)		-16.29		-17.12	
Attn Coeff (dB/km)		2.78		0.30	
0.00 m Launch Event	PASS				
Loss (dB)		0.21	0.75	0.14	0.75
Reflectance (dB)		-40.33	-35.00	-40.20	-35.00
Attn Coeff (dB/km)		3.94		1.70	
-500.33 m OTDR Port					
Reflectance (dB)		-44.28		-44.06	

ROSETTI MARINO

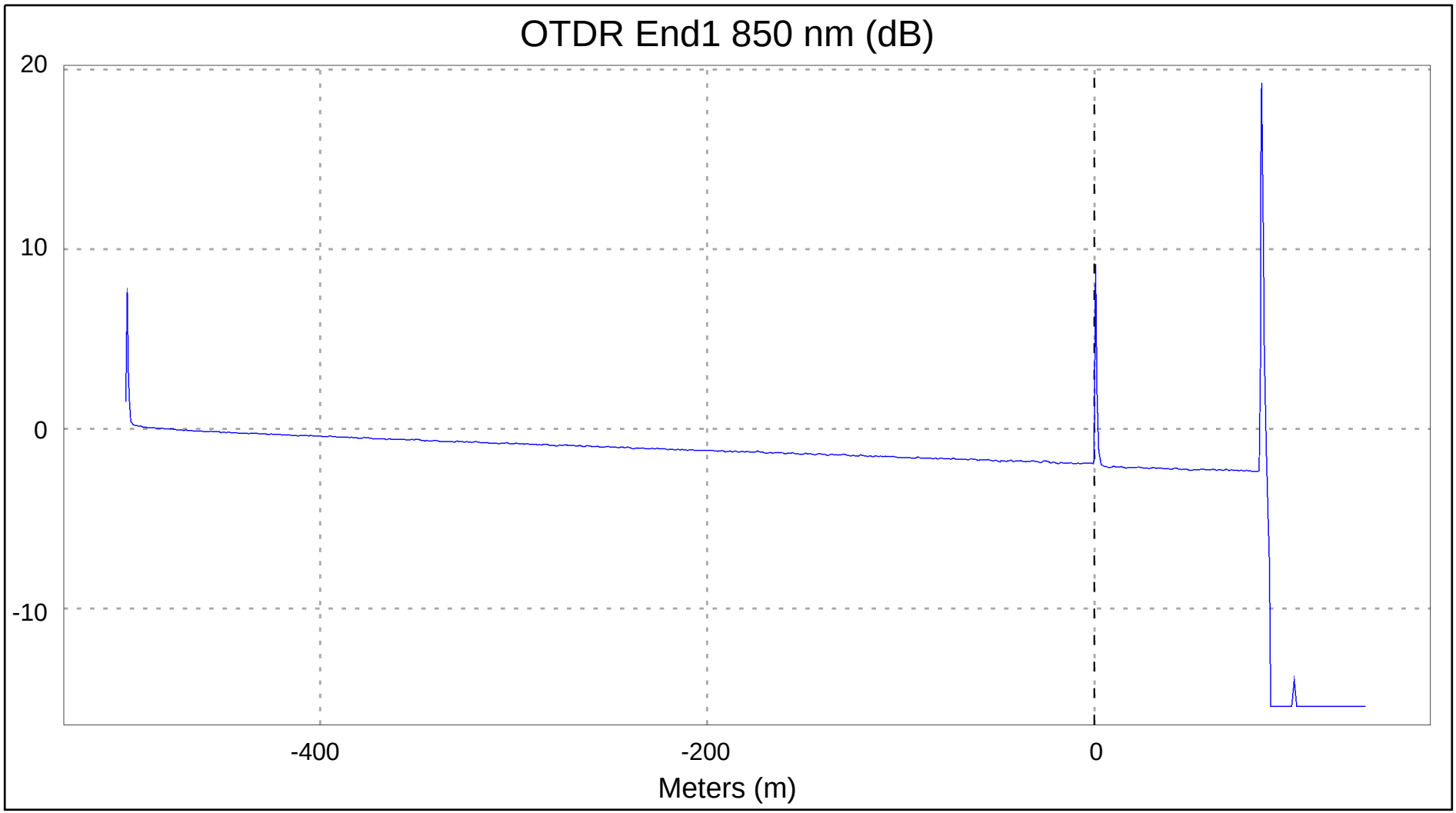
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 09:20:47
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

FLUKE networks

ROSETTI MARINO

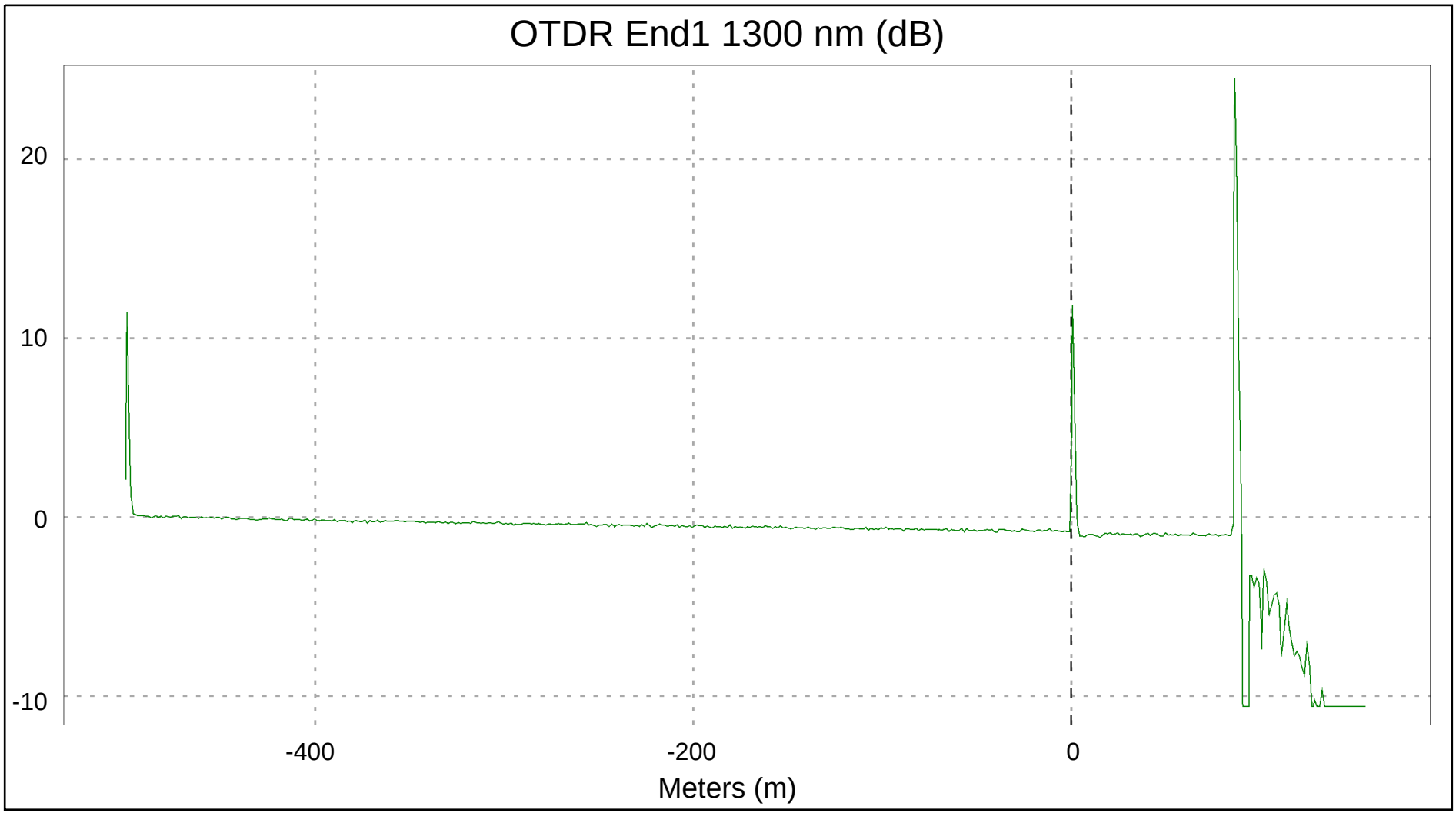
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 09:20:47
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

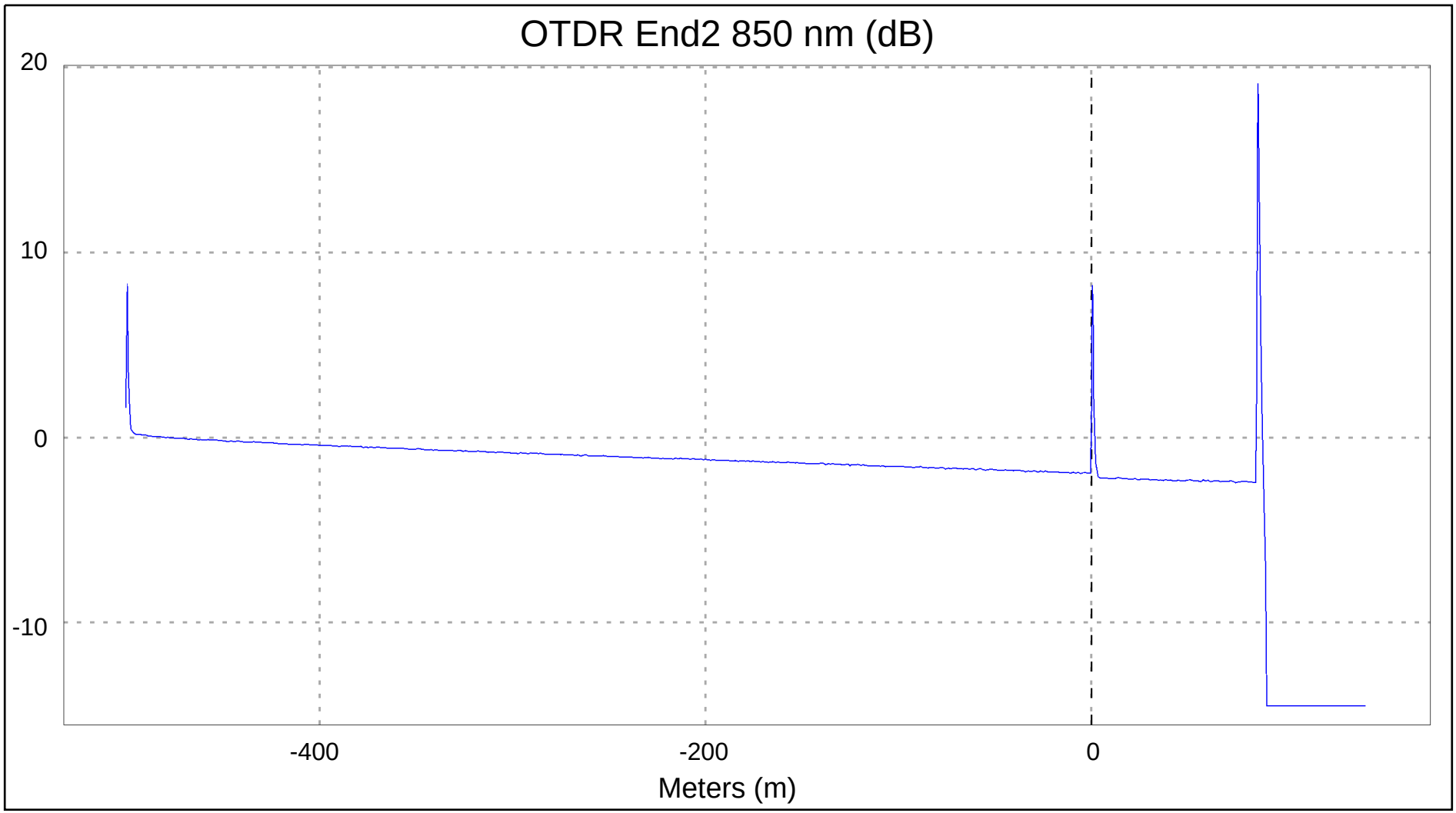
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 09:20:47
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

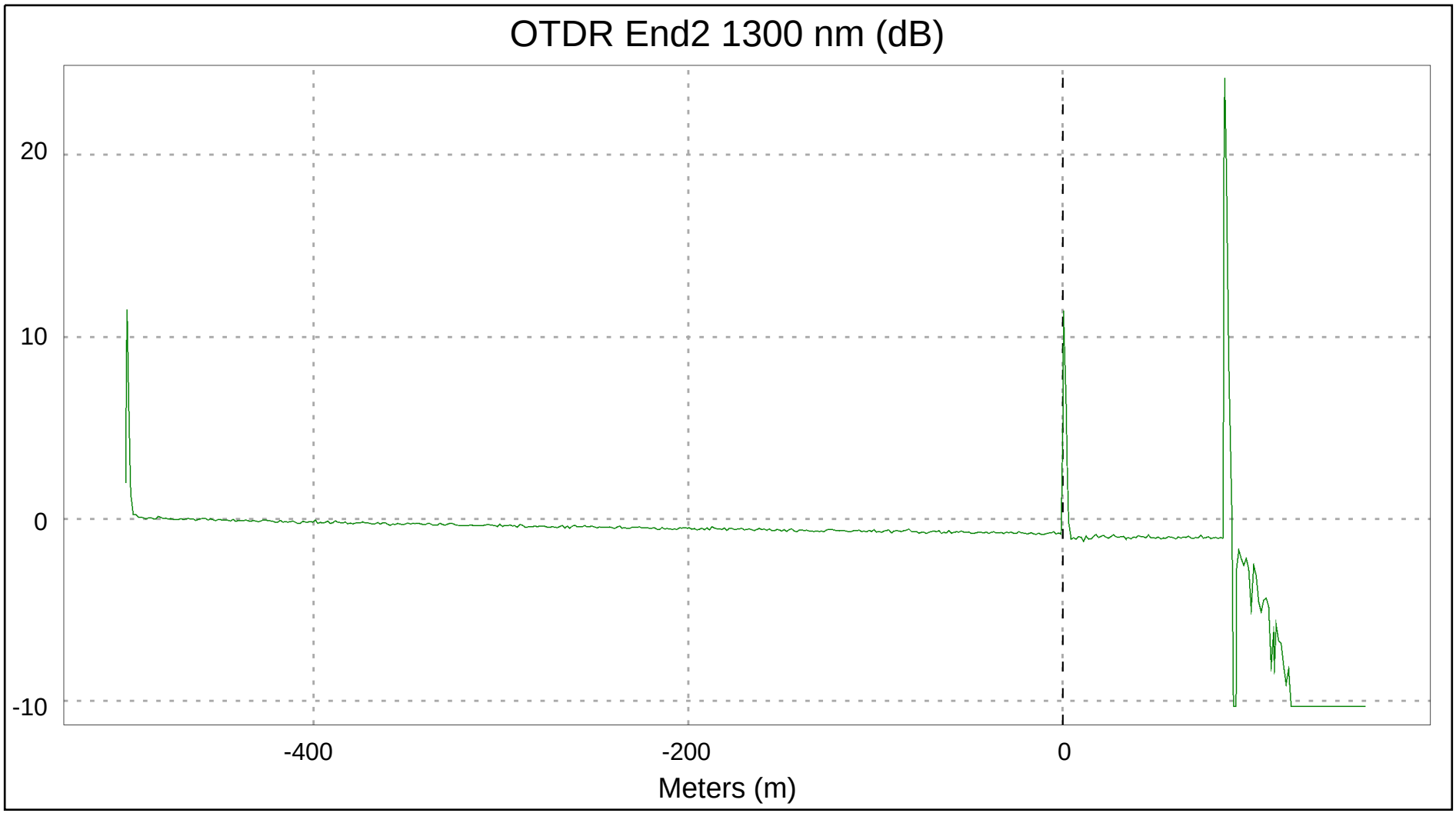
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 09:20:47
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

Cable ID: 007

Date / Time: 31-01-2025 09:24:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

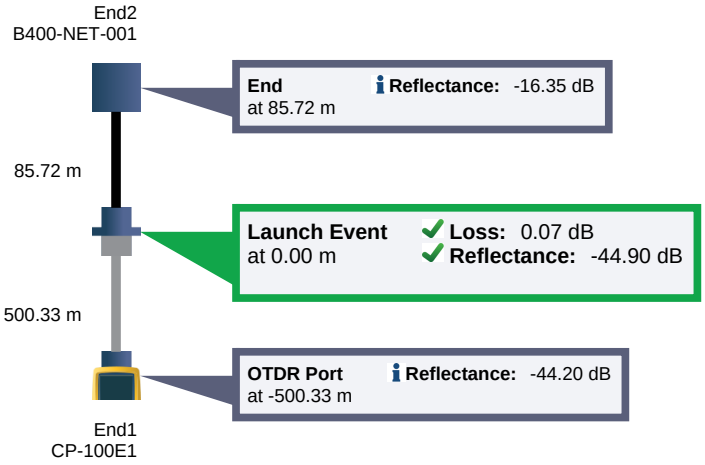
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.72 m
Overall Loss: 0.34 dB

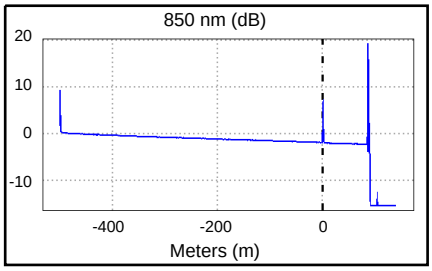


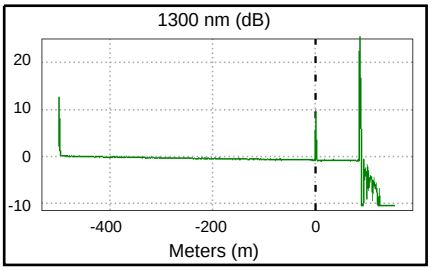
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:47:37
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	656 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.72			
Overall Loss (dB)		0.34		0.12	
ORL (dB)		38.13		43.91	
Events					
85.72 m End					
Reflectance (dB)		-16.35		-16.91	
Attn Coeff (dB/km)		3.19		0.78	

Cable ID: 007

Date / Time: 31-01-2025 09:24:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

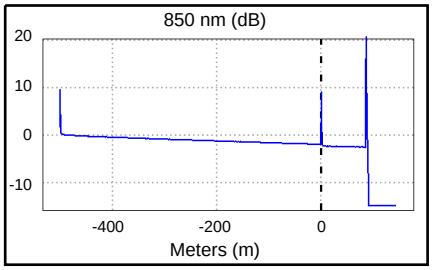
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.07	0.75	0.05	0.75
Reflectance (dB)		-44.90	-35.00	-46.63	-35.00
Attn Coeff (dB/km)		3.94		1.66	
-500.33 m OTDR Port					
Reflectance (dB)		-45.03		-44.20	

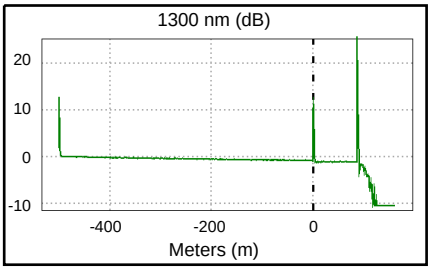
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:24:58
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.53		0.23	
ORL (dB)		37.36		39.76	
Events					
85.76 m End					
Reflectance (dB)		-15.82		-16.54	
Attn Coeff (dB/km)		2.73		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.29	0.75	0.14	0.75
Reflectance (dB)		-41.16	-35.00	-40.14	-35.00
Attn Coeff (dB/km)		3.94		1.70	
-500.33 m OTDR Port					
Reflectance (dB)		-44.20		-44.07	

ROSETTI MARINO

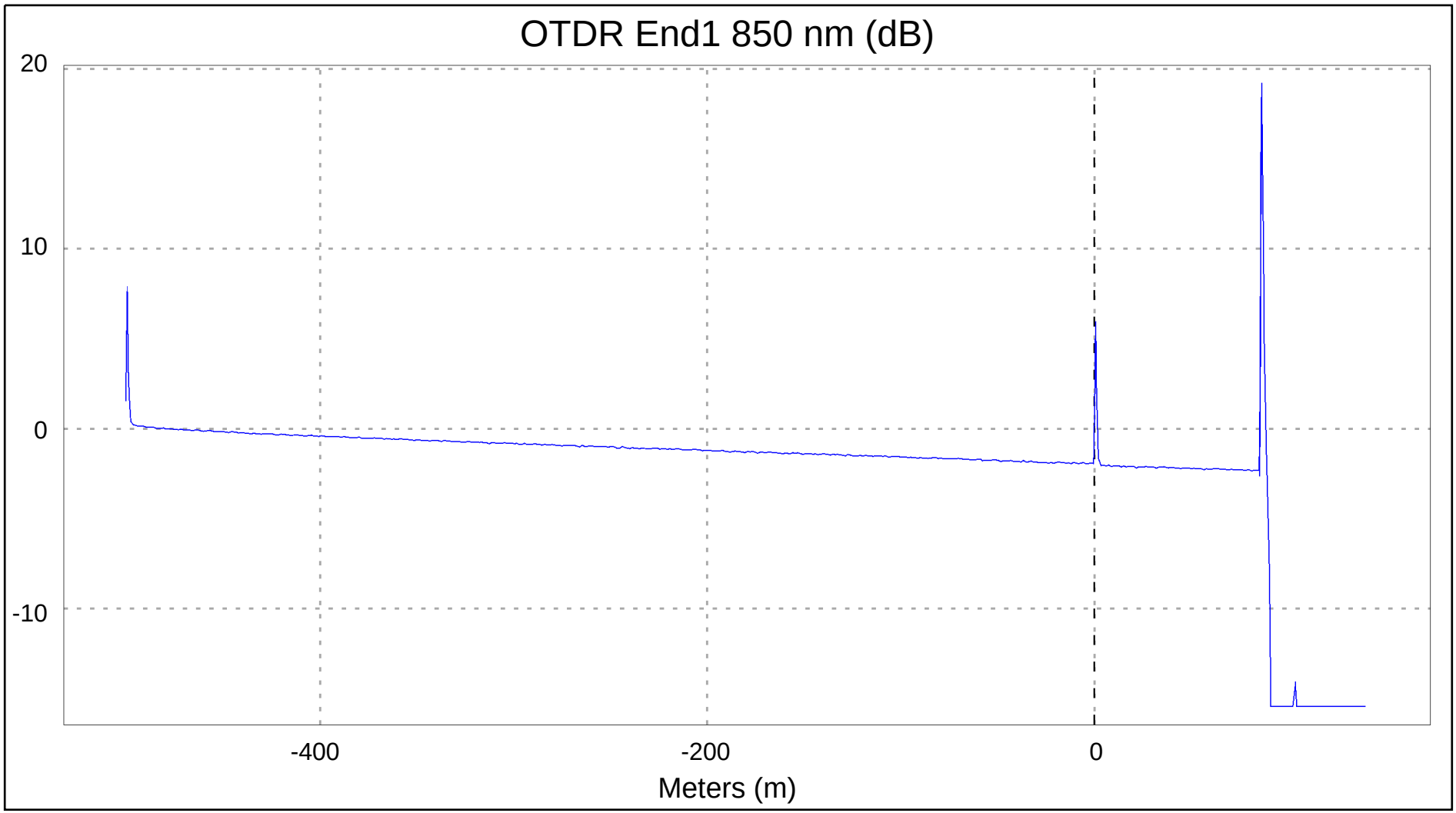
Cable ID: 007

Date / Time: 31-01-2025 09:24:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

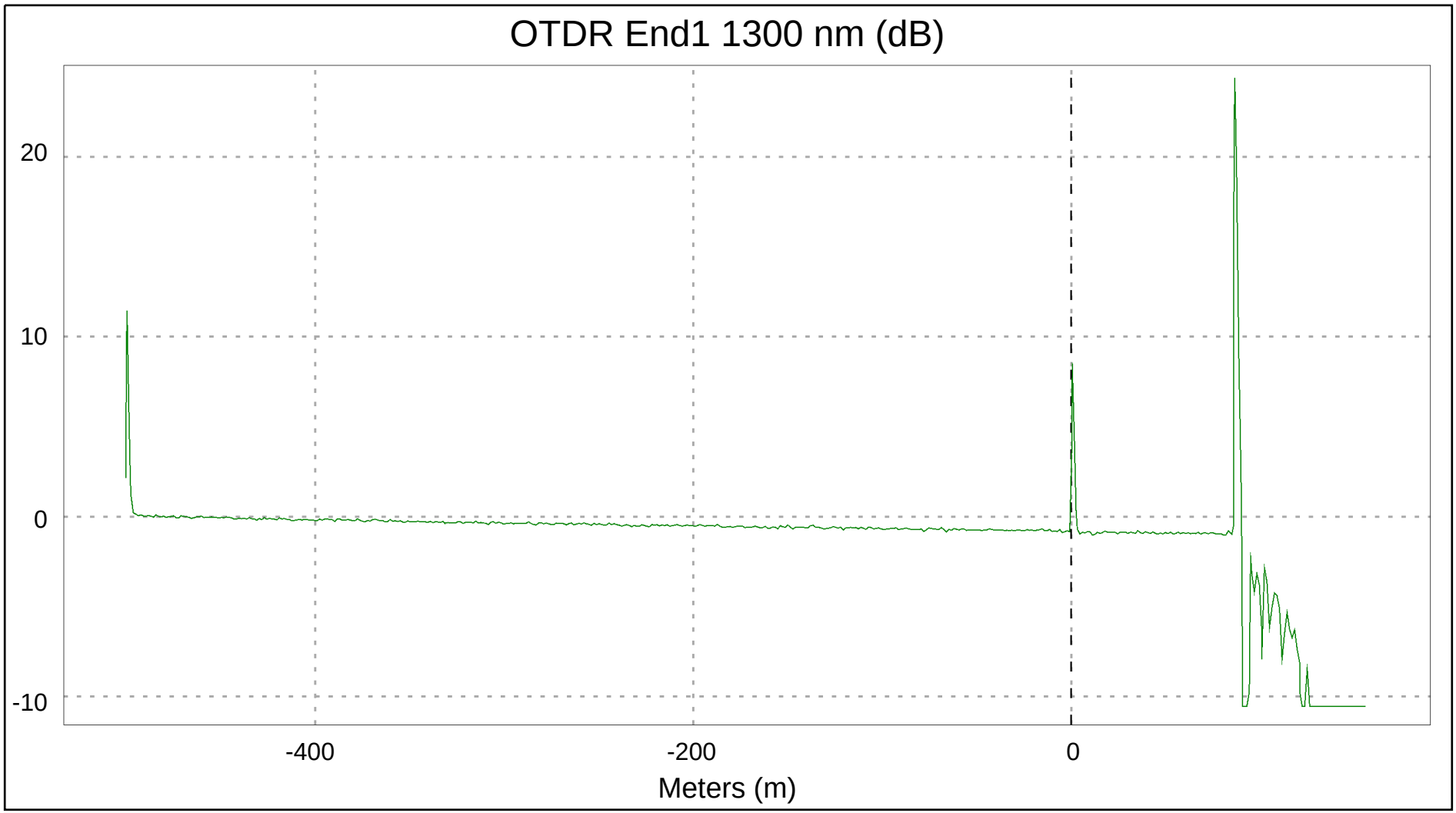
Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 09:24:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

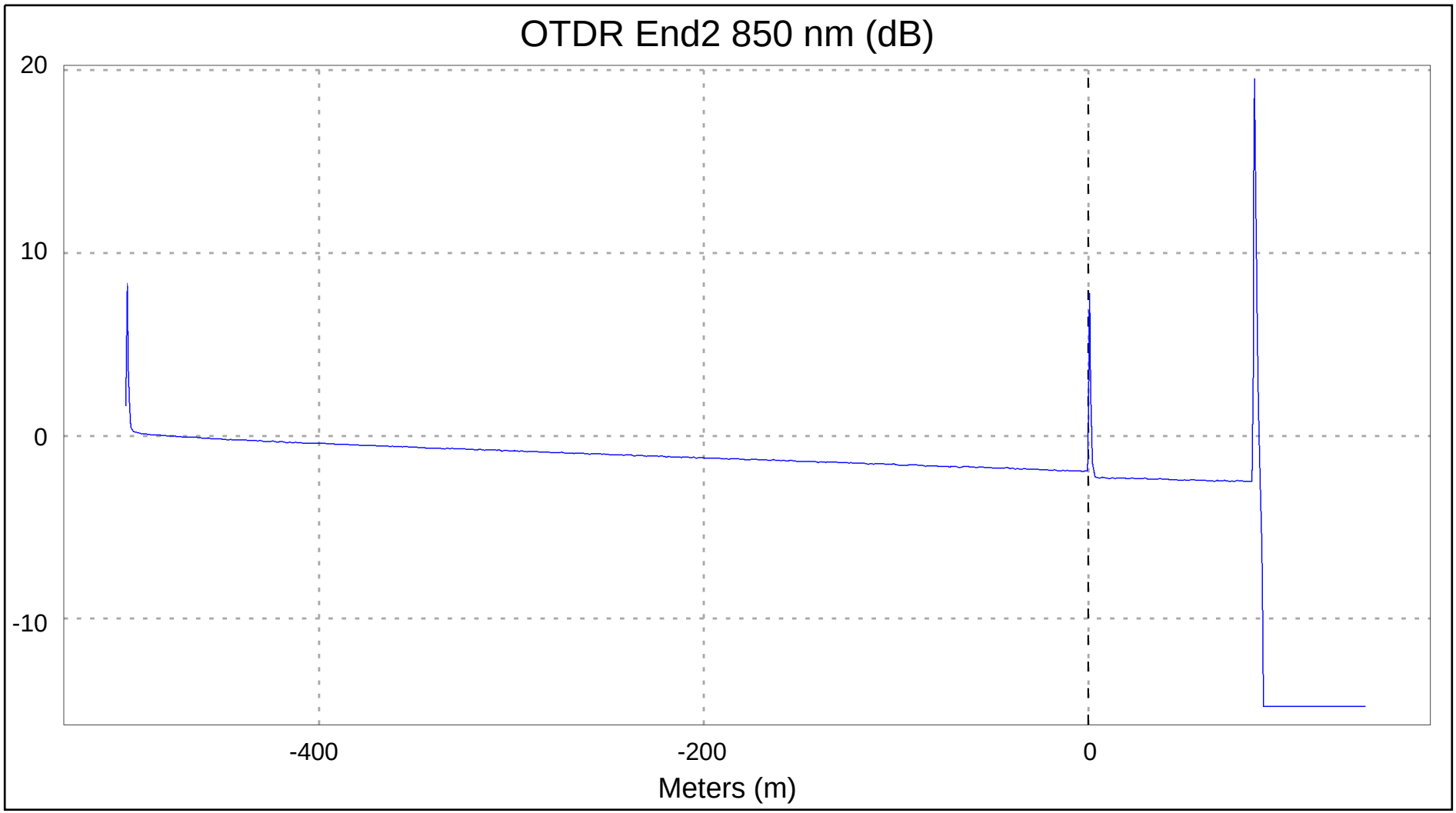
Cable ID: 007

Date / Time: 31-01-2025 09:24:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

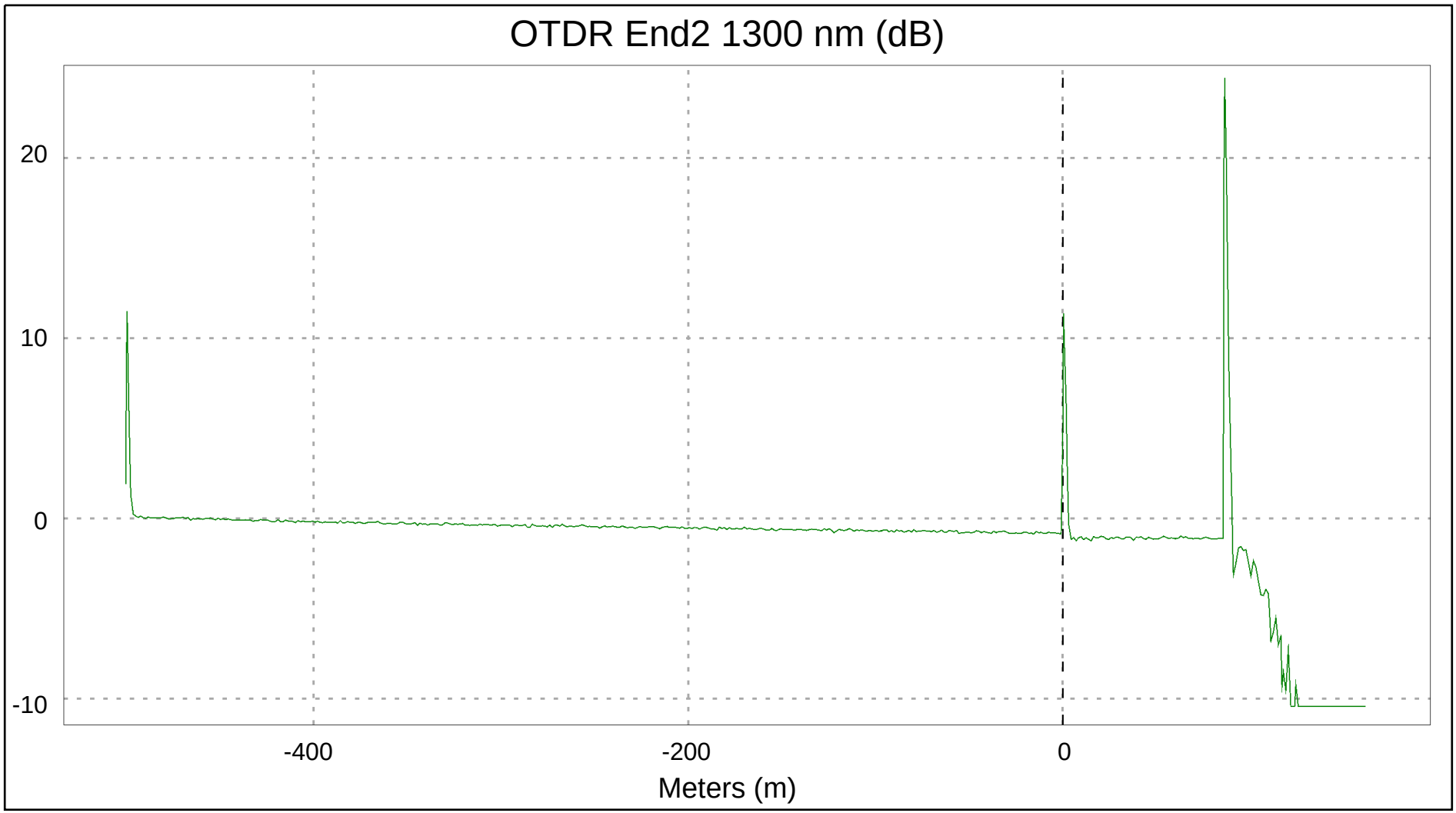
Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 09:24:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 008

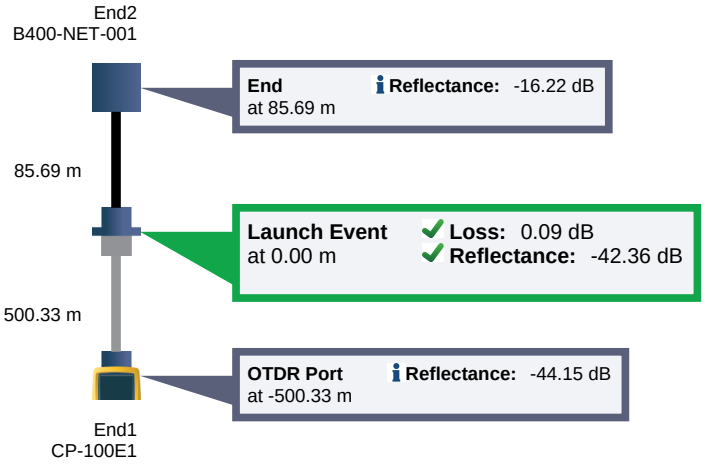
Date / Time: 31-01-2025 09:25:24
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.69 m
Overall Loss: 0.38 dB

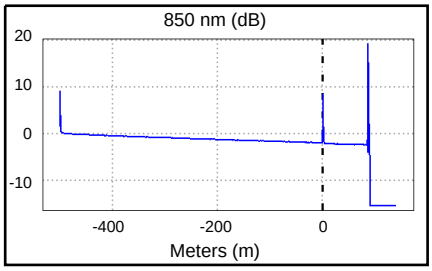


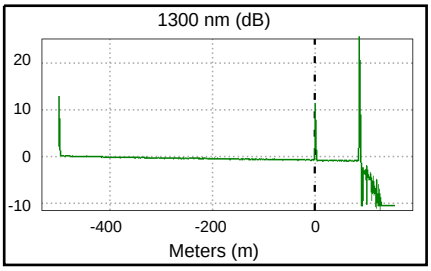
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:48:31
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	657 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.69			
Overall Loss (dB)		0.38		0.09	
ORL (dB)		37.53		42.42	
Events					
85.69 m End					
Reflectance (dB)		-16.22		-16.92	
Attn Coeff (dB/km)		3.39		0.30	

Cable ID: 008

Date / Time: 31-01-2025 09:25:24
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

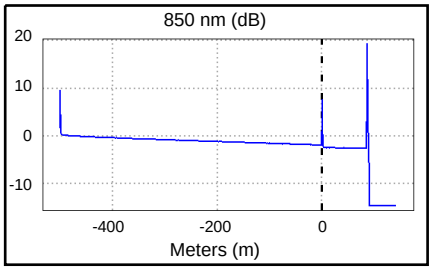
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.09	0.75	0.06	0.75
Reflectance (dB)		-42.36	-35.00	-43.92	-35.00
Attn Coeff (dB/km)		3.95		1.67	
-500.33 m OTDR Port					
Reflectance (dB)		-45.05		-44.15	

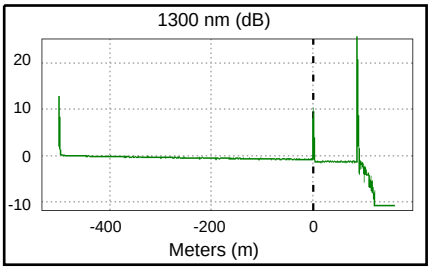
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:25:24
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	662 m
Resolution (Auto)	0.03 m	0.06 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.70		0.42	
ORL (dB)		38.60		43.09	
Events					
85.76 m End					
Reflectance (dB)		-15.39		-15.99	
Attn Coeff (dB/km)		2.37		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.49	0.75	0.34	0.75
Reflectance (dB)		-44.25	-35.00	-44.65	-35.00
Attn Coeff (dB/km)		3.95		1.70	
-500.33 m OTDR Port					
Reflectance (dB)		-44.24		-44.01	

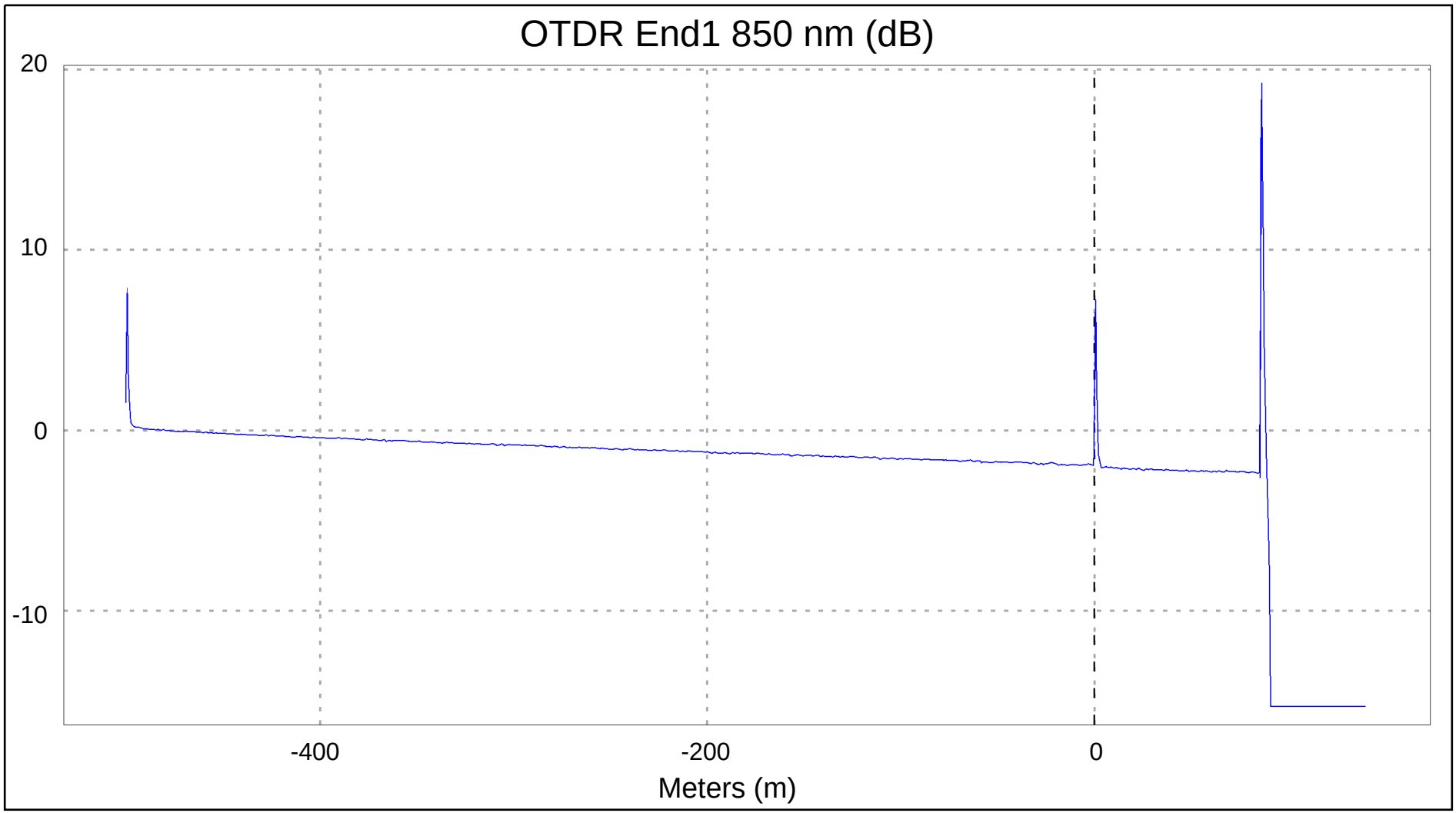
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 09:25:24
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

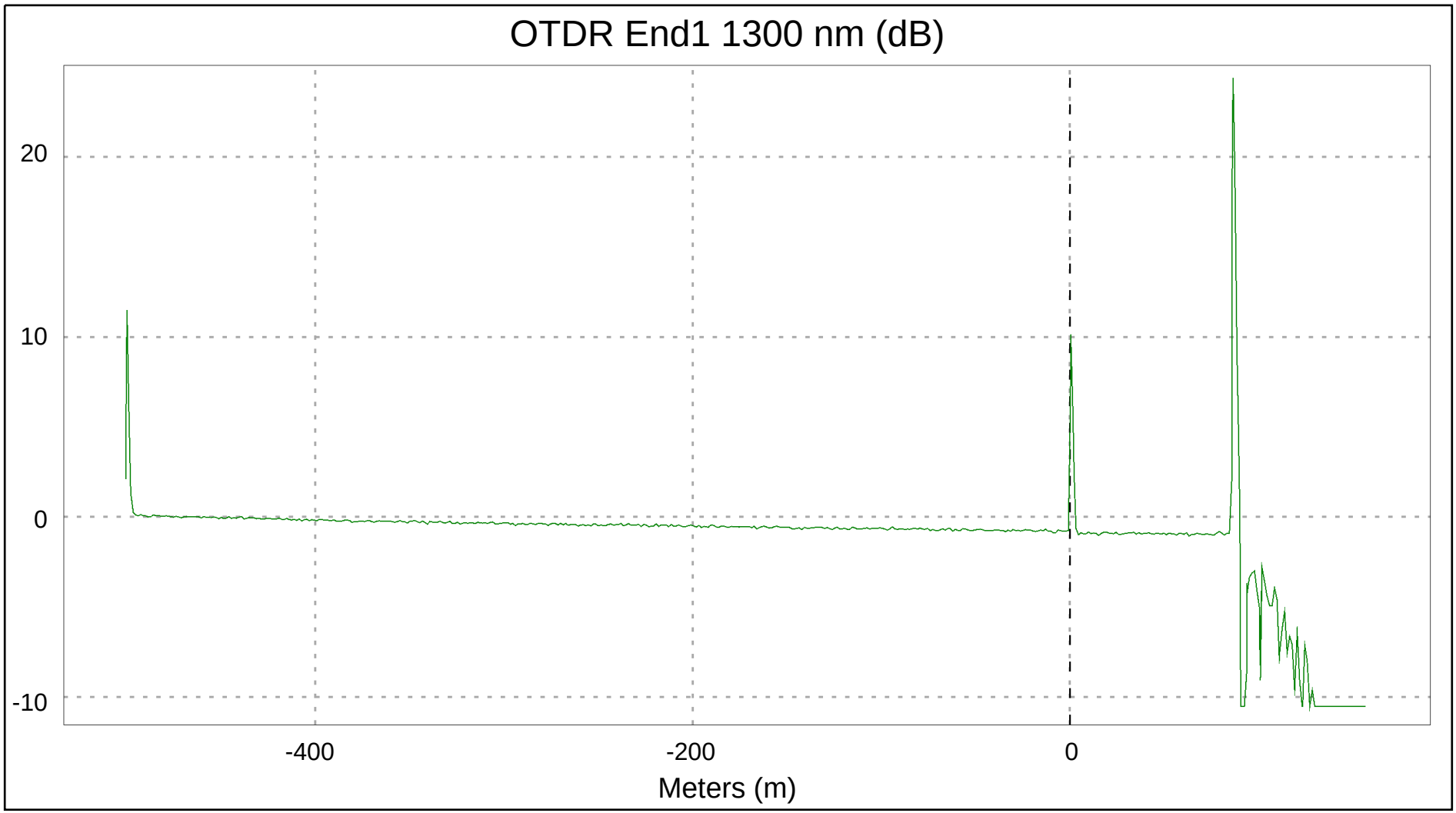
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 09:25:24
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

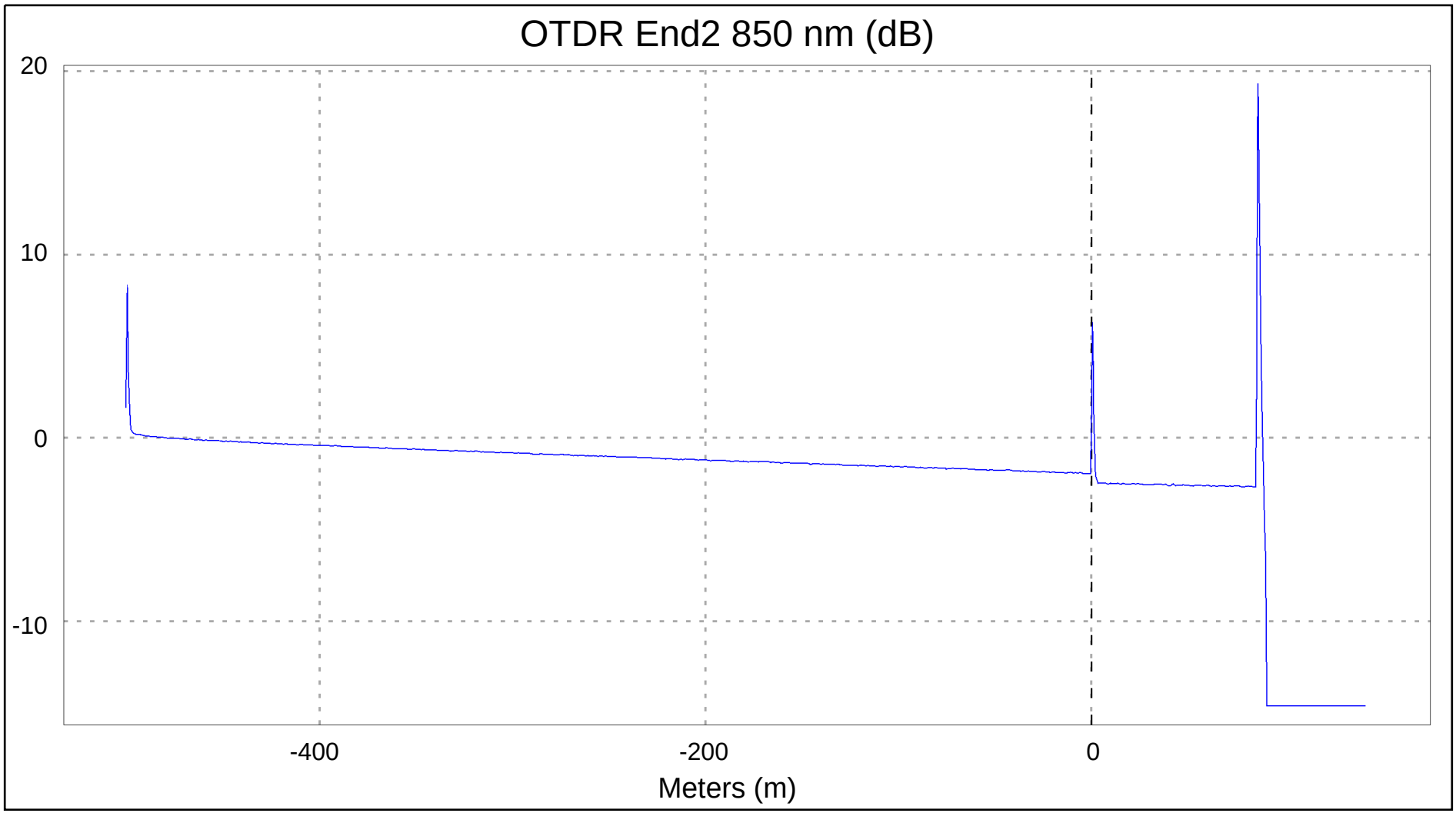
Cable ID: 008

Date / Time: 31-01-2025 09:25:24
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

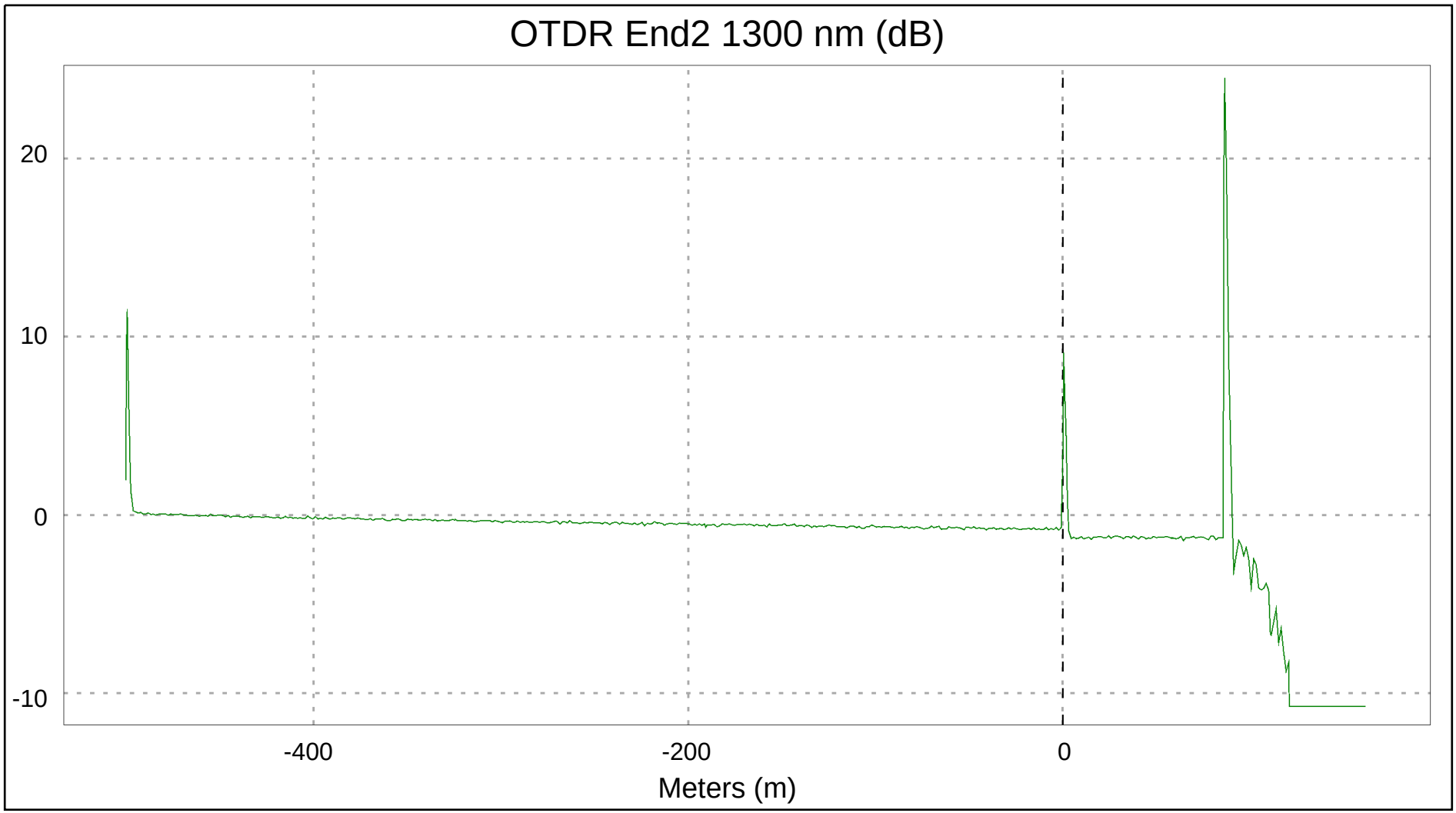
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 09:25:24
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

Cable ID: 009

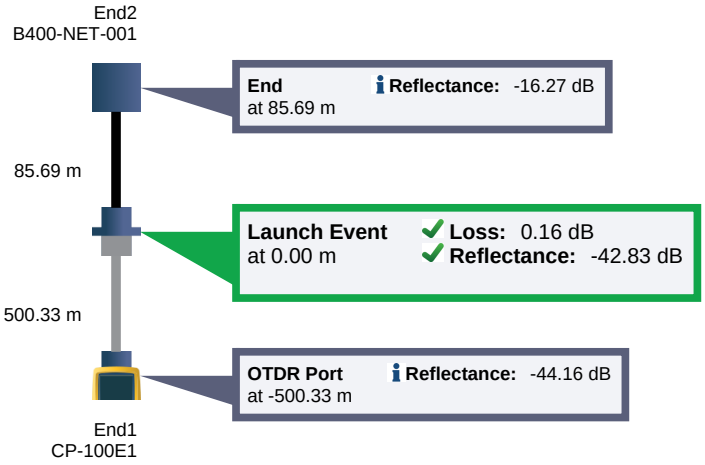
Date / Time: 31-01-2025 09:28:22
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.69 m
Overall Loss: 0.40 dB

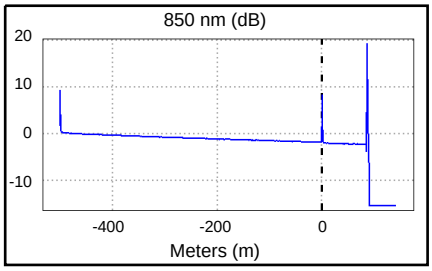


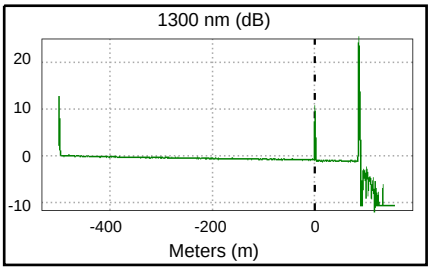
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:48:53
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	658 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.69			
Overall Loss (dB)		0.40		0.25	
ORL (dB)		37.71		43.02	
Events					
85.69 m End					
Reflectance (dB)		-16.27		-16.85	
Attn Coeff (dB/km)		3.20		1.02	

Cable ID: 009

Date / Time: 31-01-2025 09:28:22
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

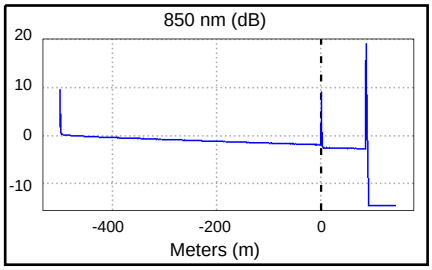
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.13	0.75	0.16	0.75
Reflectance (dB)		-42.83	-35.00	-44.77	-35.00
Attn Coeff (dB/km)		3.96		1.67	
-500.33 m OTDR Port					
Reflectance (dB)		-44.98		-44.16	

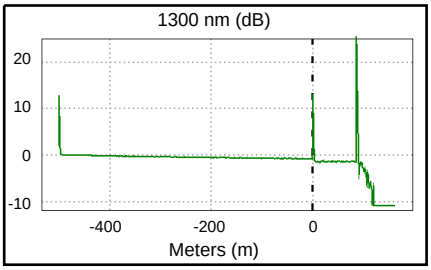
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:28:22
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	663 m
Resolution (Auto)	0.03 m	0.13 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	8 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.78		0.57	
ORL (dB)		37.61		41.09	
Events					
85.76 m End					
Reflectance (dB)		-15.63		-16.25	
Attn Coeff (dB/km)		2.50		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.56	0.75	0.49	0.75
Reflectance (dB)		-41.03	-35.00	-41.67	-35.00
Attn Coeff (dB/km)		3.95		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-44.18		-43.97	

ROSETTI MARINO

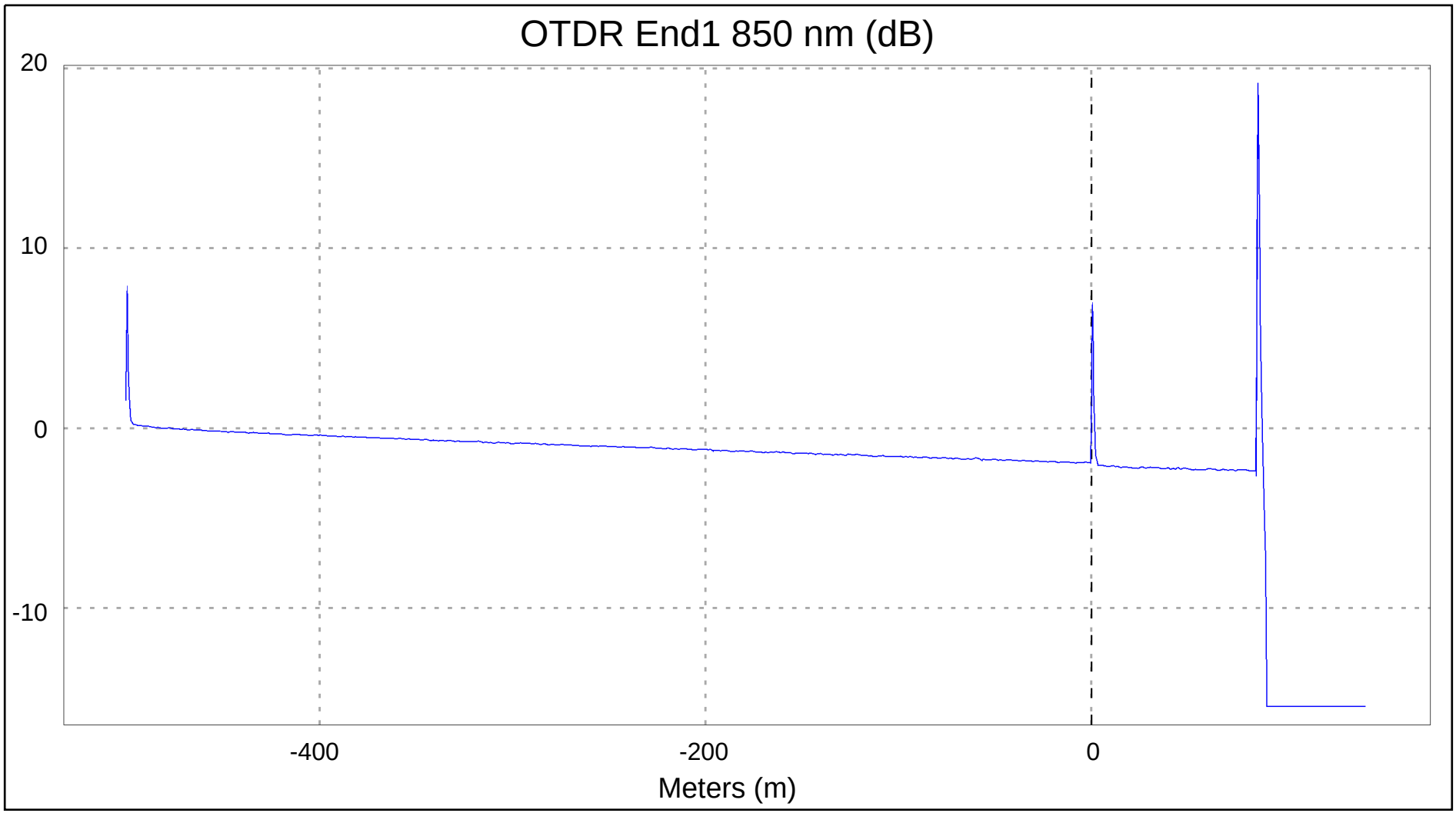
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 09:28:22
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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FLUKE networks

ROSETTI MARINO

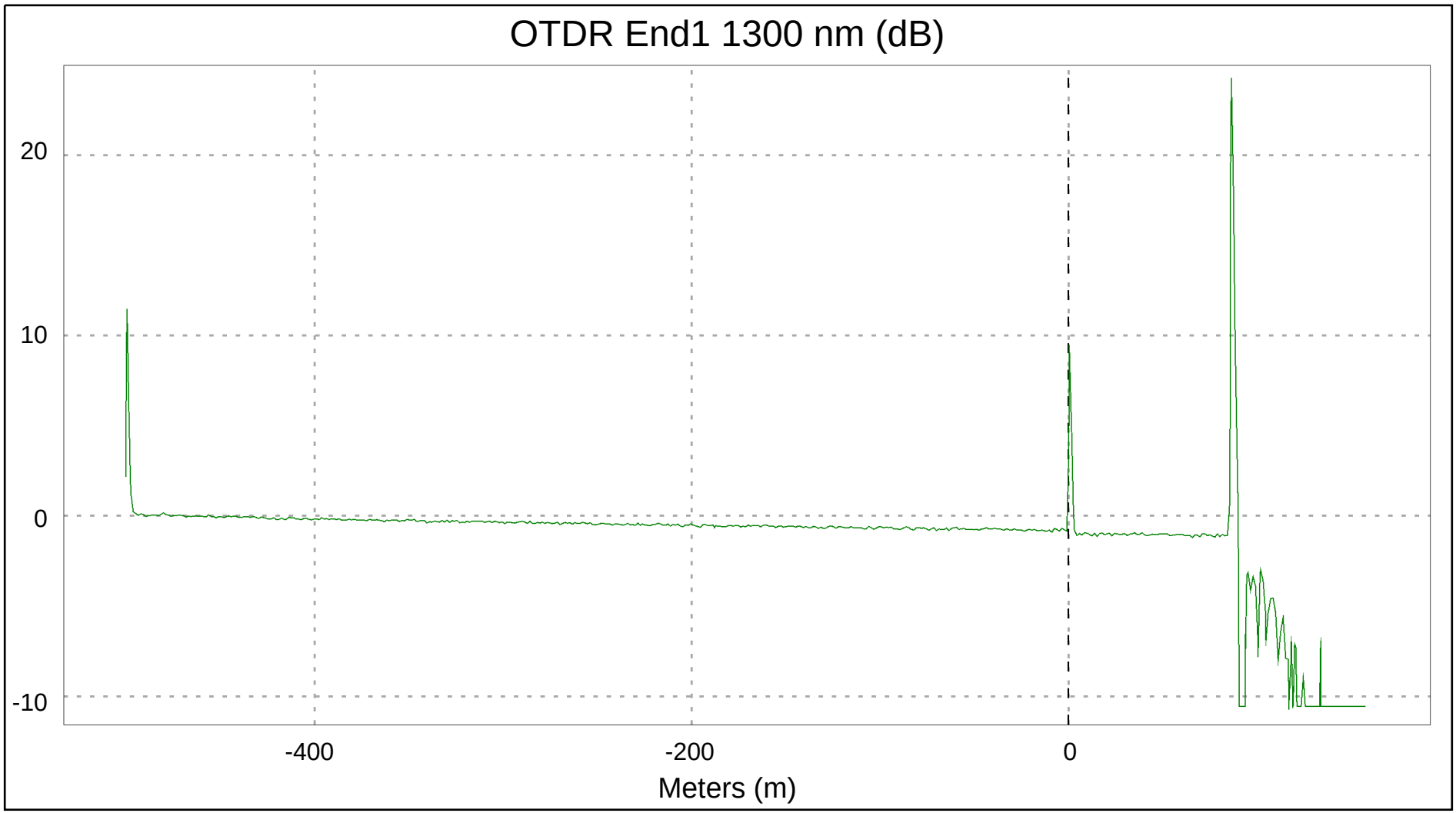
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 09:28:22
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

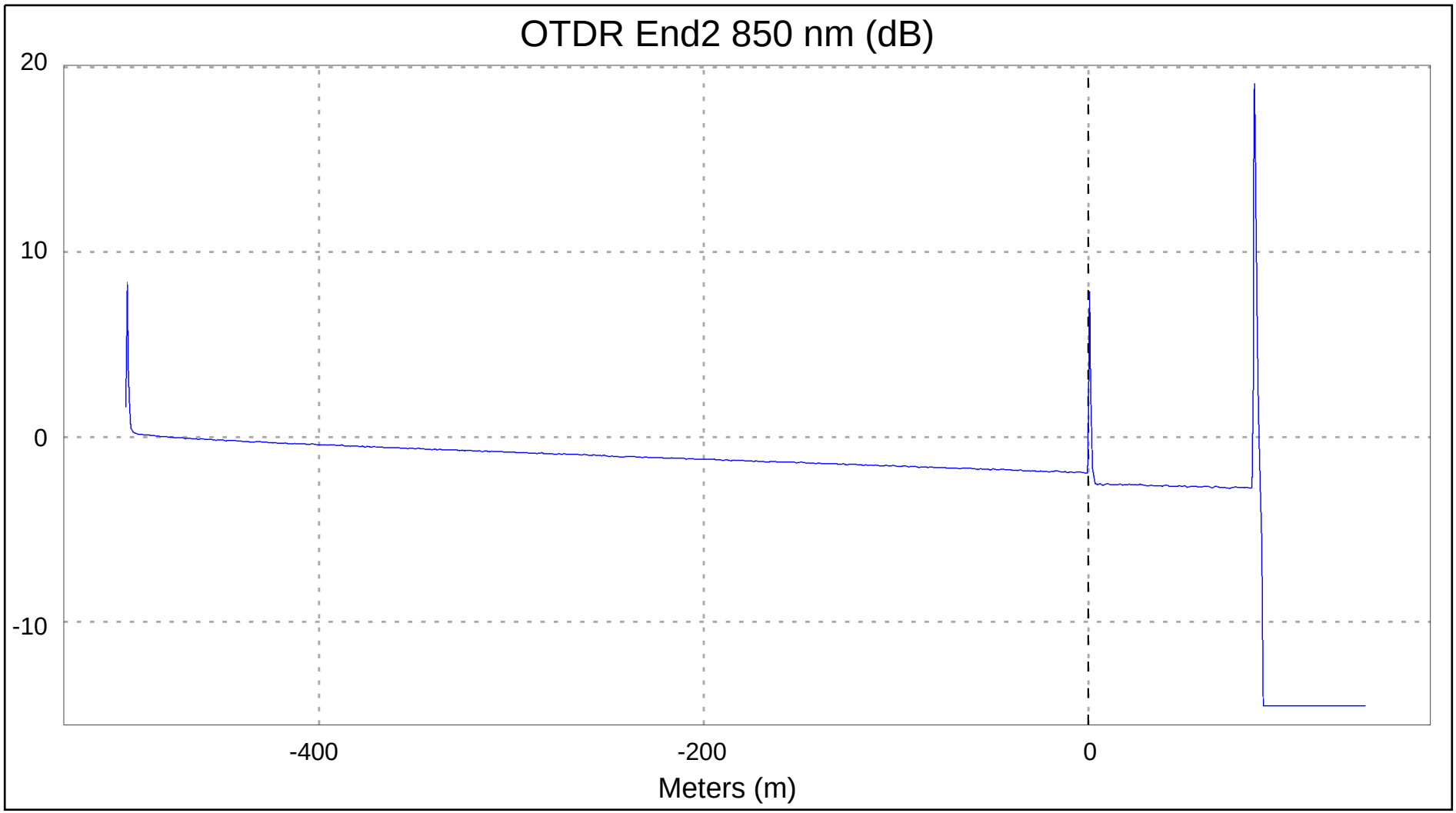
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 09:28:22
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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ROSETTI MARINO

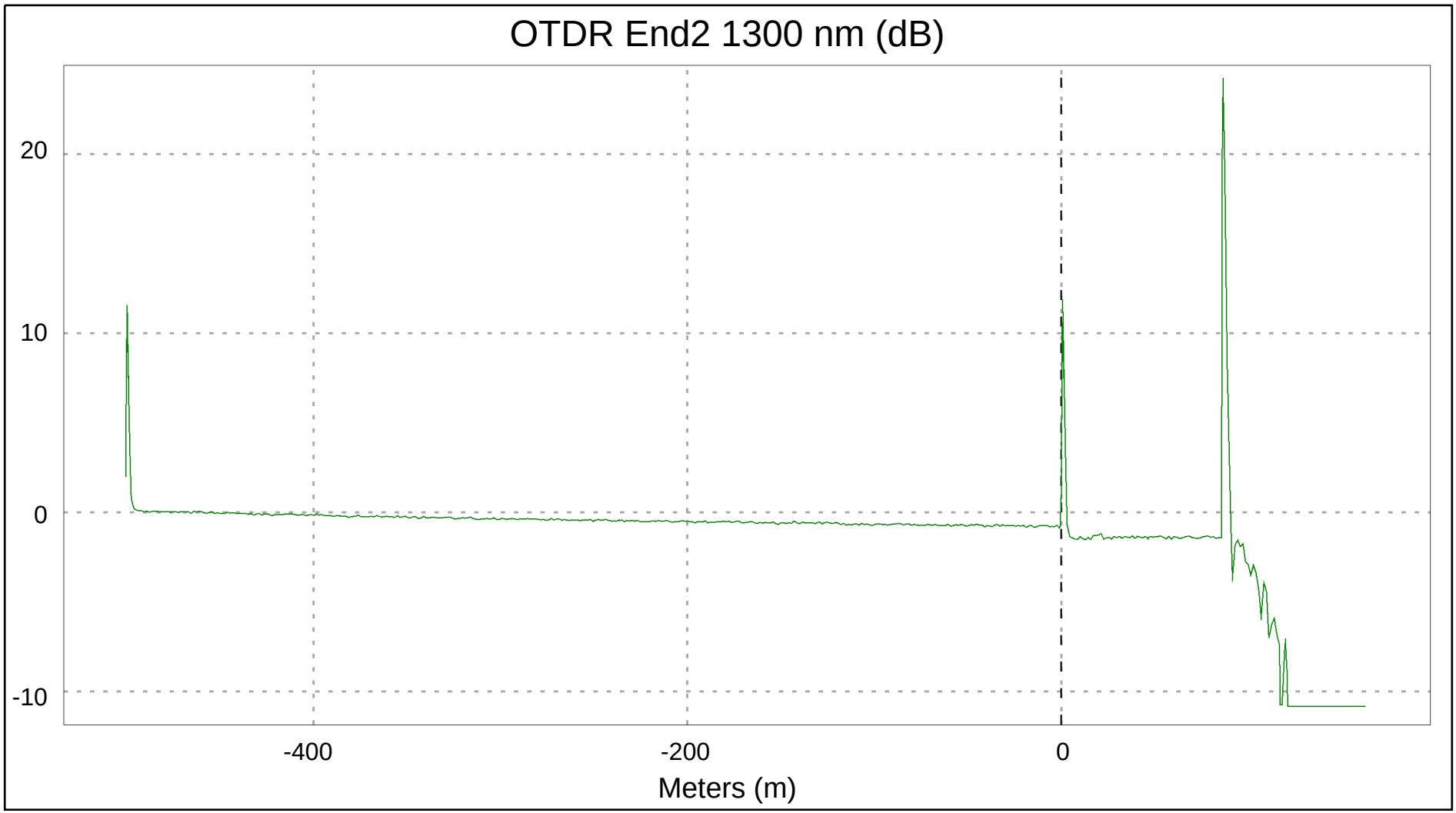
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 09:28:22
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

FLUKE networks

Cable ID: 010

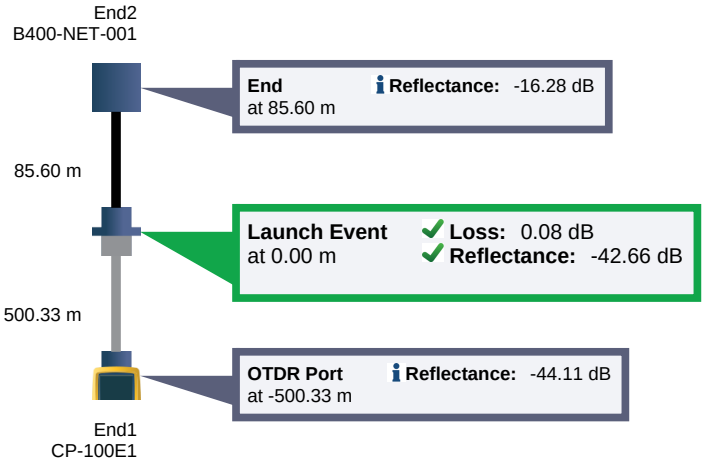
Date / Time: 31-01-2025 09:26:44
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.60 m
Overall Loss: 0.33 dB

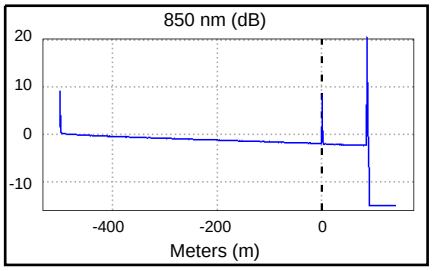


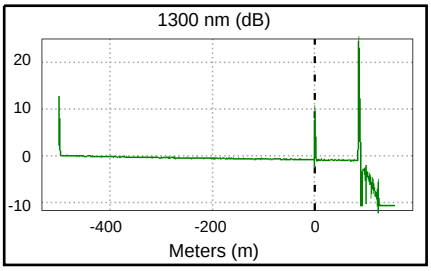
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:49:11
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	658 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.60			
Overall Loss (dB)		0.33		0.11	
ORL (dB)		37.59		42.94	
Events					
85.60 m End					
Reflectance (dB)		-16.28		-16.90	
Attn Coeff (dB/km)		2.99		0.71	

Cable ID: 010

Date / Time: 31-01-2025 09:26:44
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

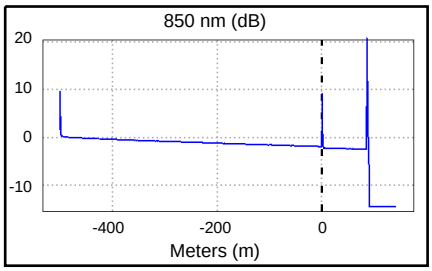
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.08	0.75	0.05	0.75
Reflectance (dB)		-42.66	-35.00	-44.79	-35.00
Attn Coeff (dB/km)		3.96		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.90		-44.11	

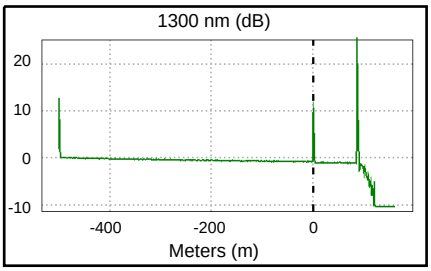
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:26:44
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.63			
Overall Loss (dB)		0.48		0.21	
ORL (dB)		37.22		40.89	
Events					
85.63 m End					
Reflectance (dB)		-15.61		-16.42	
Attn Coeff (dB/km)		2.43		0.90	
0.00 m Launch Event	PASS				
Loss (dB)		0.27	0.75	0.14	0.75
Reflectance (dB)		-40.91	-35.00	-41.58	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.22		-44.12	

ROSETTI MARINO

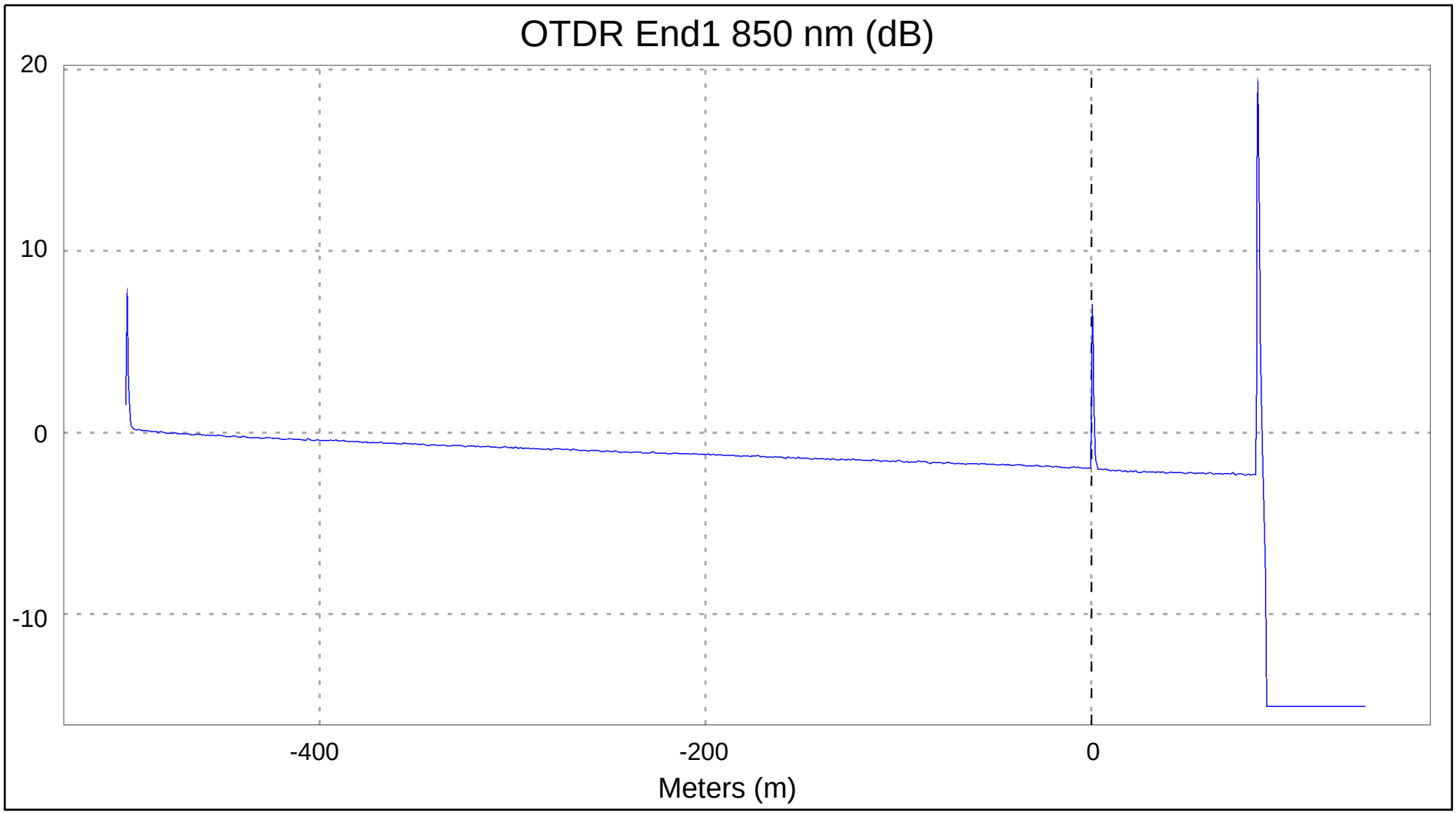
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 09:26:44
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

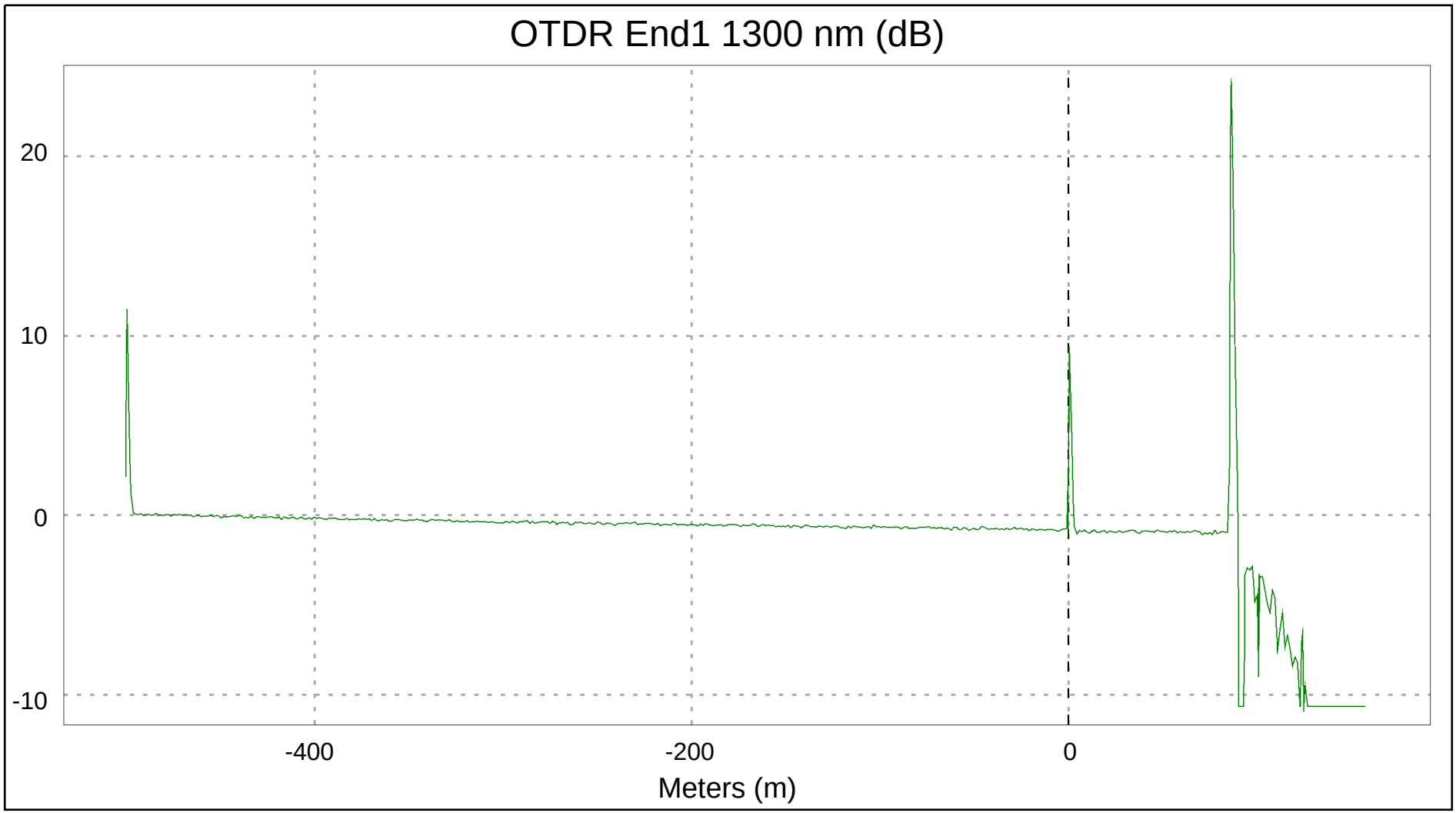
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 09:26:44
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

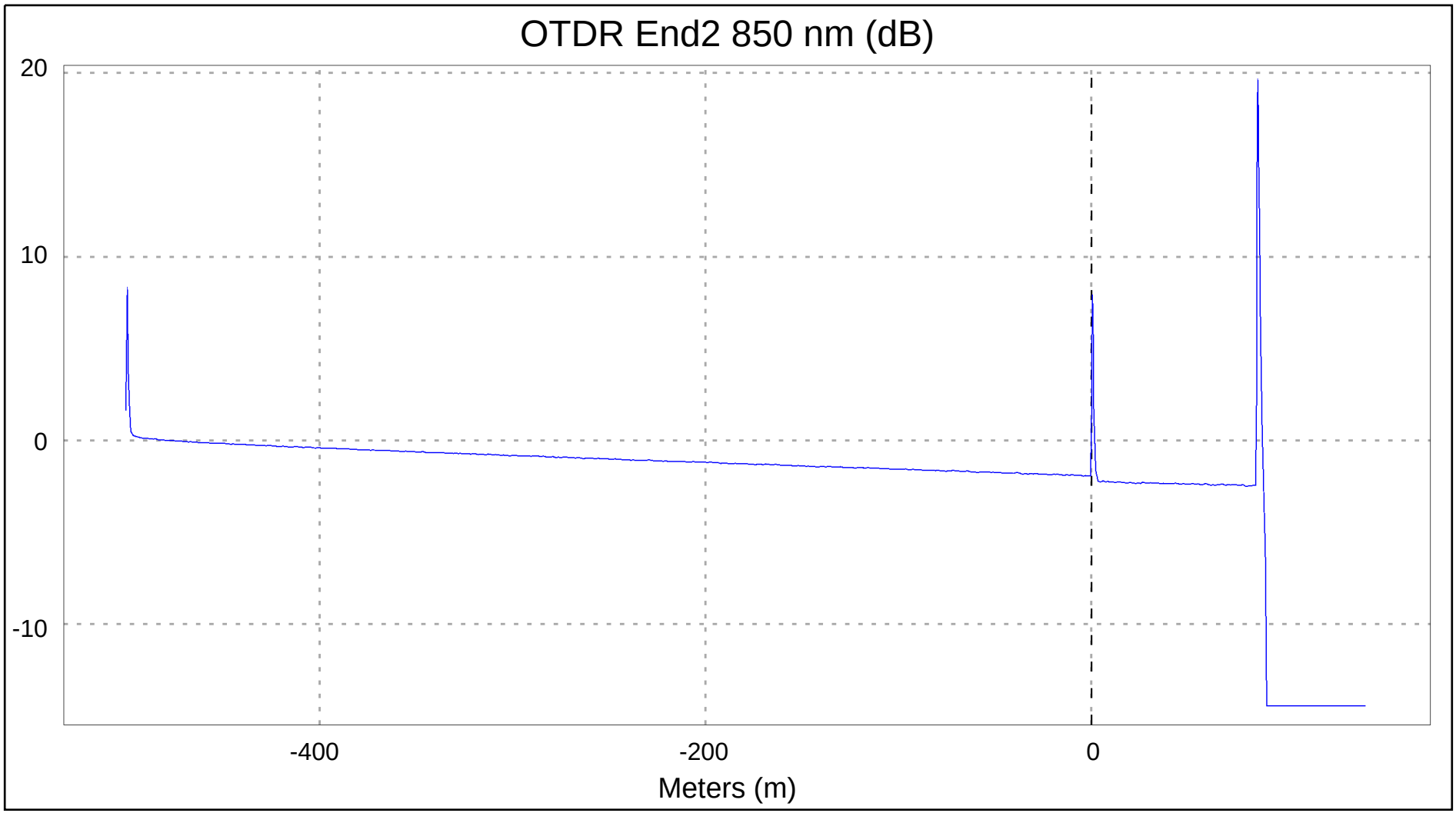
Cable ID: 010

Date / Time: 31-01-2025 09:26:44
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

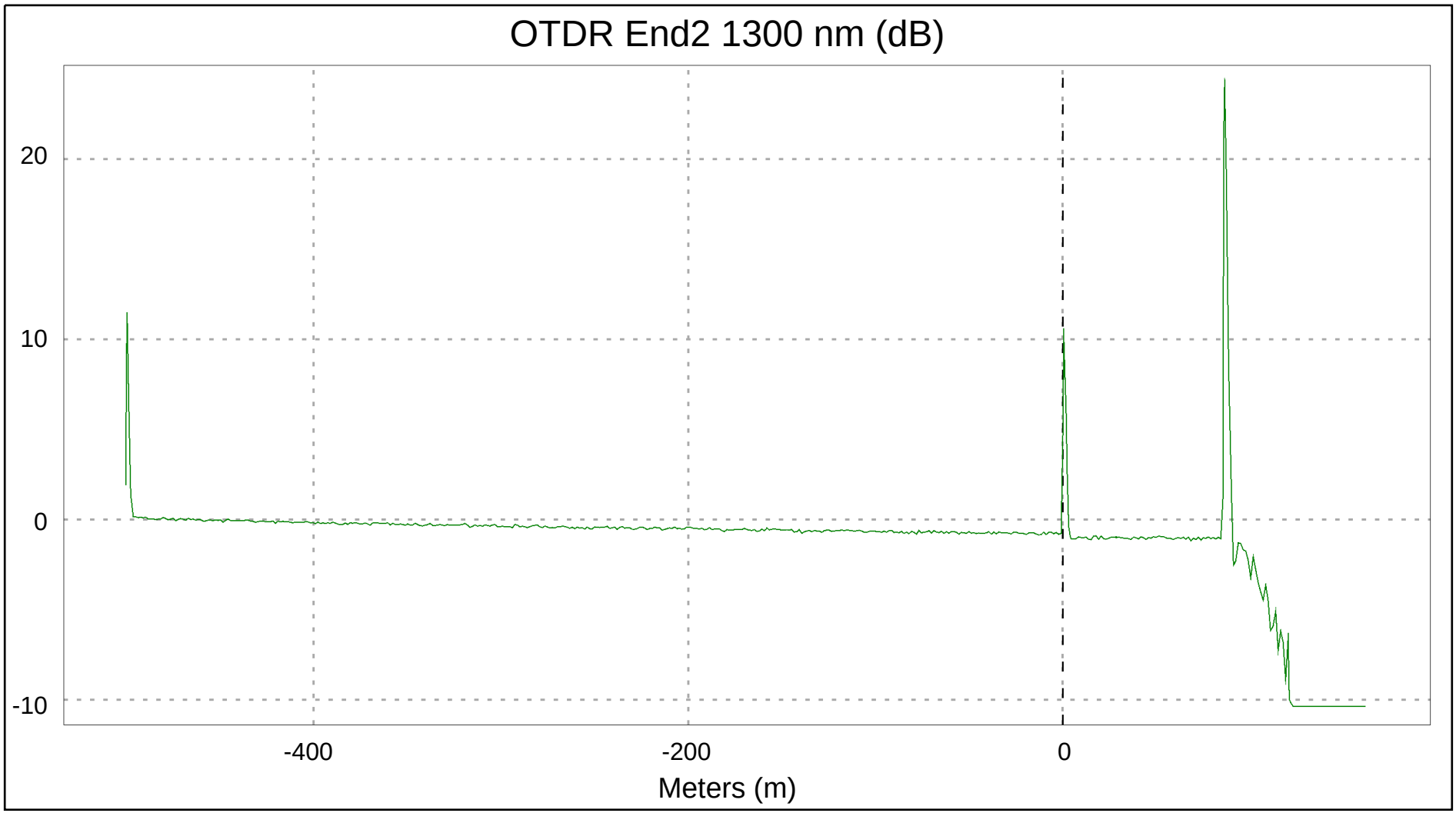
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 09:26:44
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 011

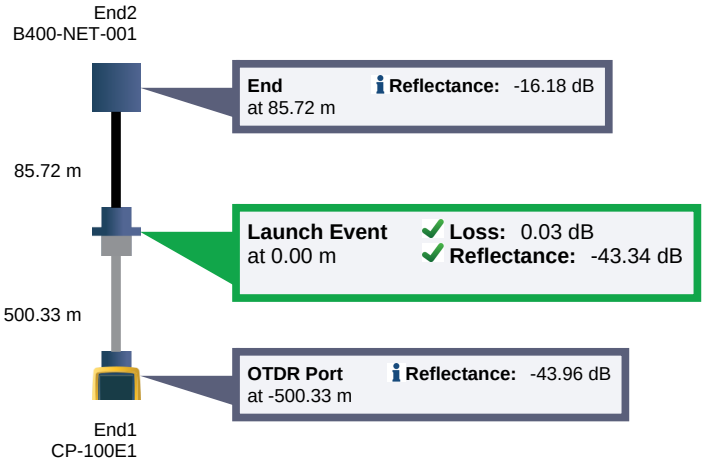
Date / Time: 31-01-2025 09:28:43
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.72 m
Overall Loss: 0.30 dB

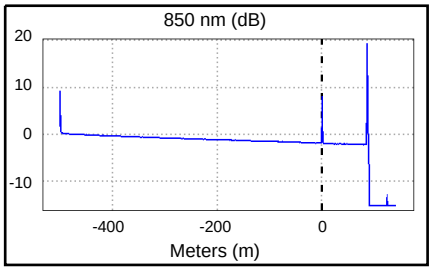


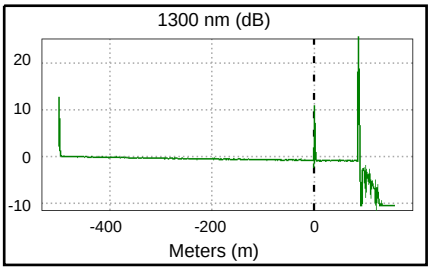
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:49:36
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	659 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.72			
Overall Loss (dB)		0.30		0.04	
ORL (dB)		37.71		43.33	
Events					
85.72 m End					
Reflectance (dB)		-16.18		-16.63	
Attn Coeff (dB/km)		3.04		0.55	

Cable ID: 011

Date / Time: 31-01-2025 09:28:43
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

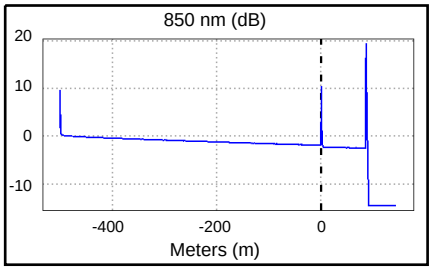
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.03	0.75	-0.01	0.75
Reflectance (dB)		-43.34	-35.00	-45.61	-35.00
Attn Coeff (dB/km)		3.94		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.89		-43.96	

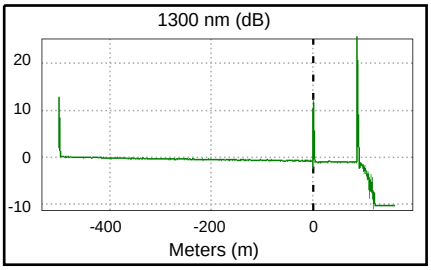
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:28:43
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.53		0.19	
ORL (dB)		36.10		40.09	
Events					
85.76 m End					
Reflectance (dB)		-15.69		-16.46	
Attn Coeff (dB/km)		2.53		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.31	0.75	0.11	0.75
Reflectance (dB)		-38.44	-35.00	-40.57	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.17		-44.00	

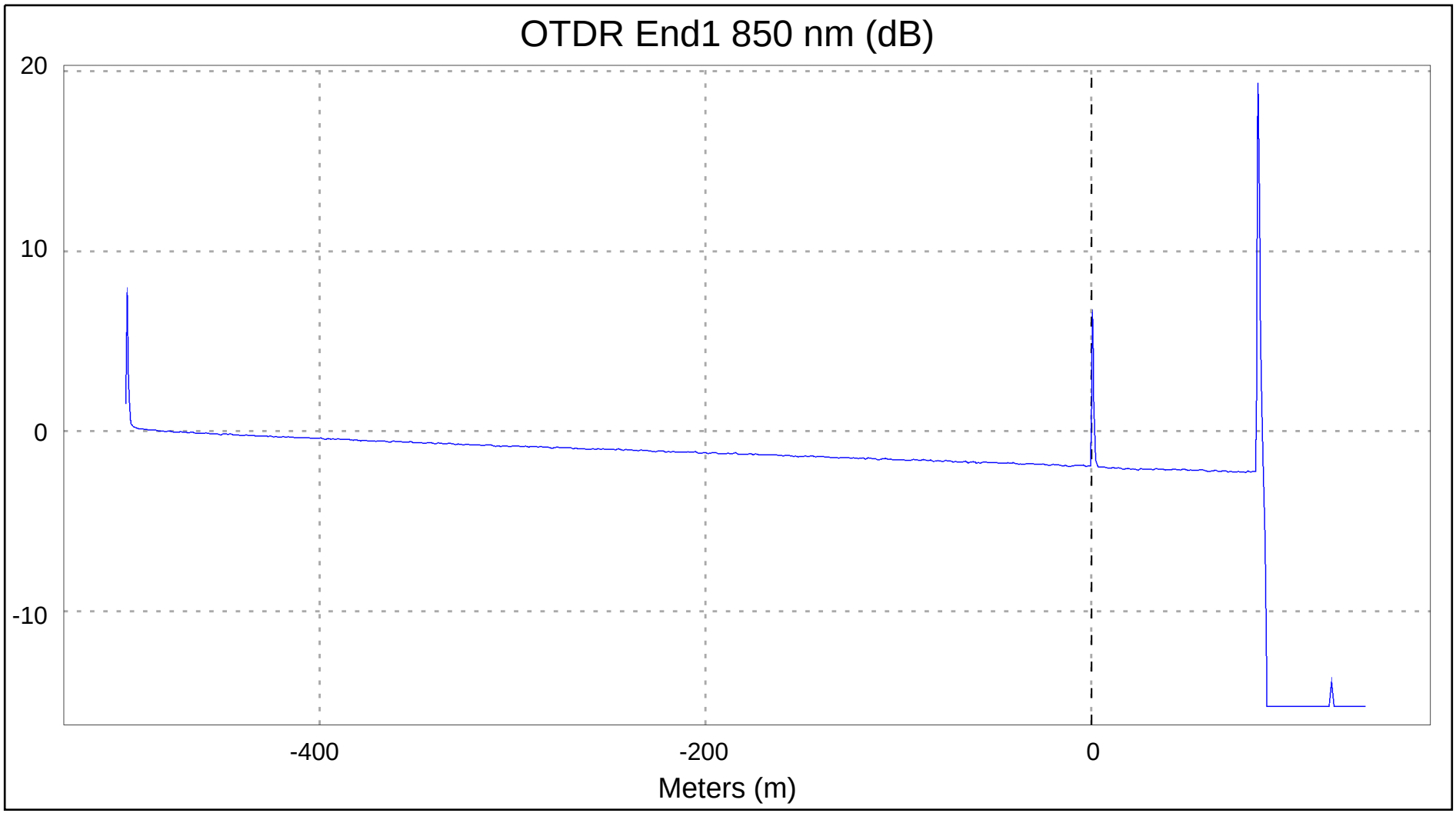
Cable ID: 011

Date / Time: 31-01-2025 09:28:43
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

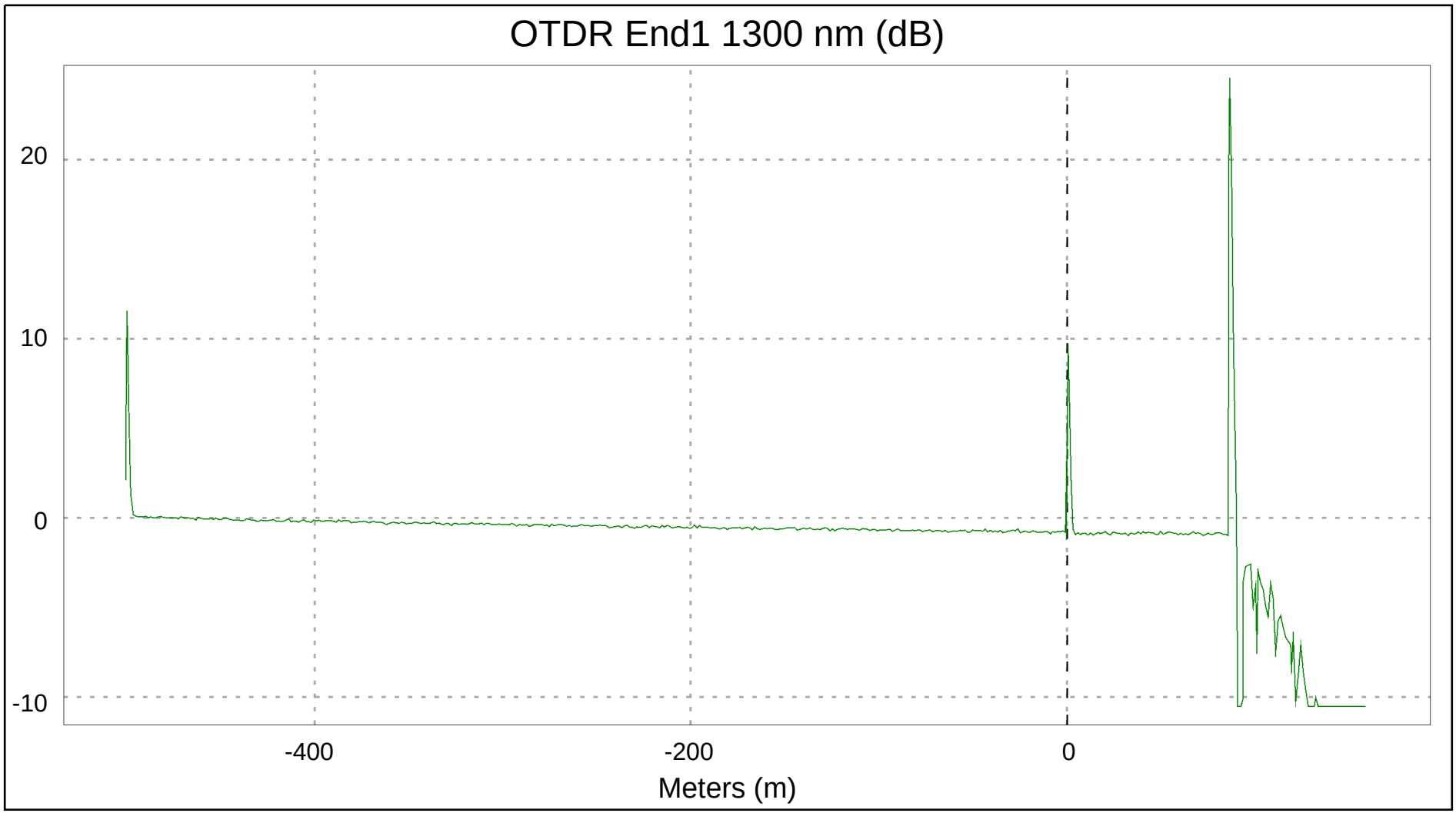
Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 09:28:43
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

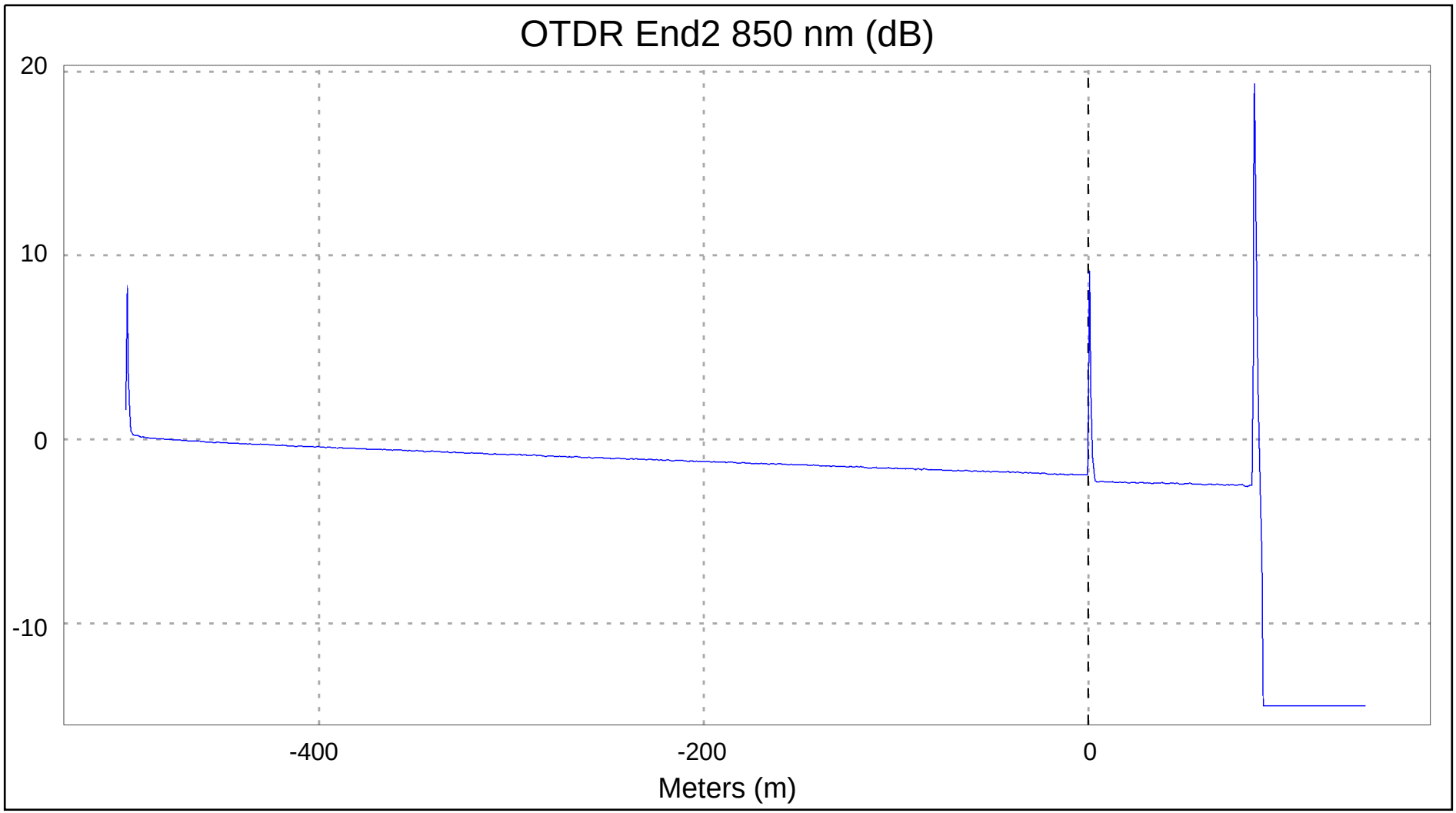
Cable ID: 011

Date / Time: 31-01-2025 09:28:43
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

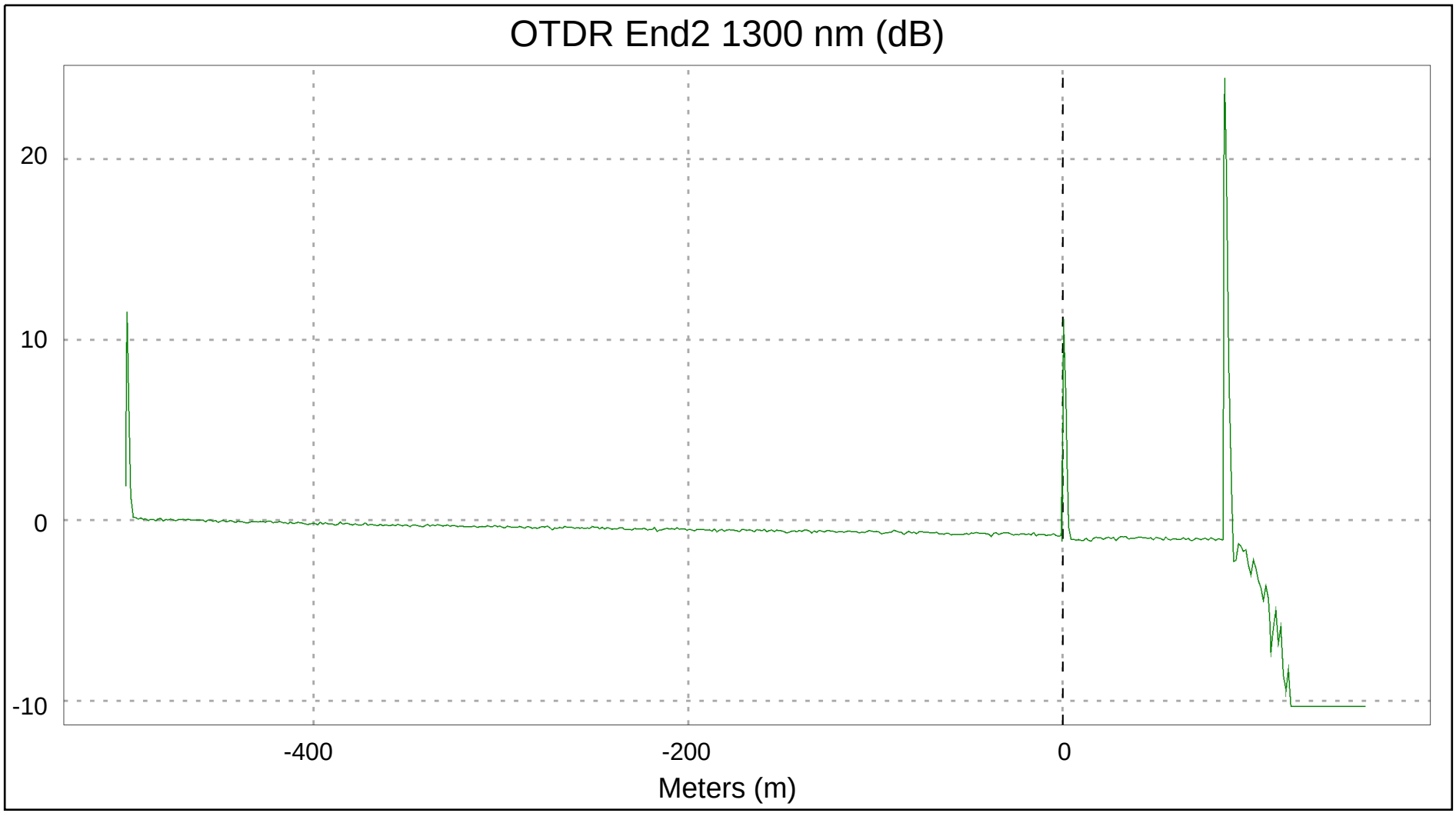
Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 09:28:43
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 012

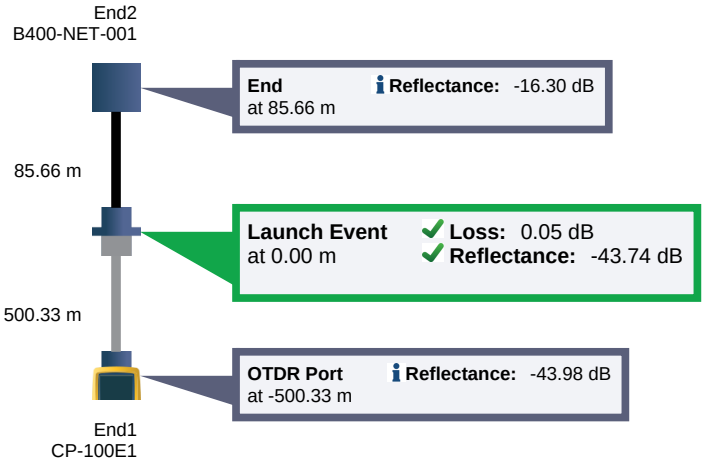
Date / Time: 31-01-2025 09:29:05
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.66 m
Overall Loss: 0.32 dB

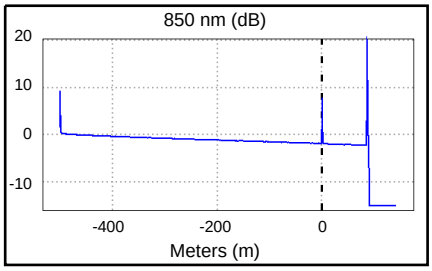


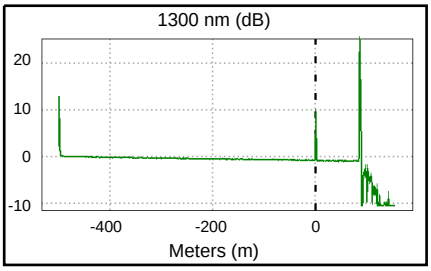
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:49:57
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	656 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.66			
Overall Loss (dB)		0.32		0.13	
ORL (dB)		37.83		43.62	
Events					
85.66 m End					
Reflectance (dB)		-16.30		-16.87	
Attn Coeff (dB/km)		3.38		0.97	

Cable ID: 012

Date / Time: 31-01-2025 09:29:05
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

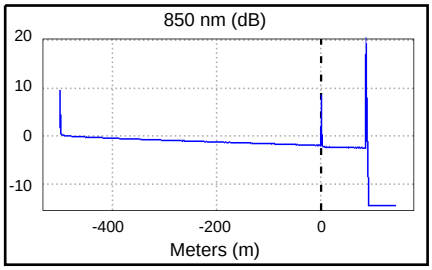
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.03	0.75	0.05	0.75
Reflectance (dB)		-43.74	-35.00	-46.03	-35.00
Attn Coeff (dB/km)		3.94		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.87		-43.98	

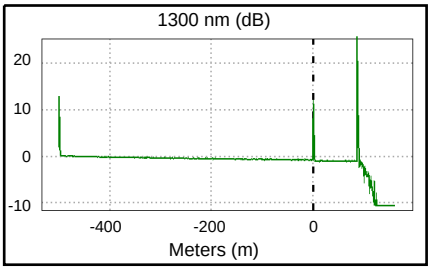
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:29:05
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	662 m
Resolution (Auto)	0.03 m	0.06 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.69			
Overall Loss (dB)		0.48		0.19	
ORL (dB)		37.60		41.93	
Events					
85.69 m End					
Reflectance (dB)		-15.84		-16.44	
Attn Coeff (dB/km)		2.57		0.30	
0.00 m Launch Event	PASS				
Loss (dB)		0.25	0.75	0.16	0.75
Reflectance (dB)		-41.99	-35.00	-43.08	-35.00
Attn Coeff (dB/km)		3.94		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.17		-44.02	

ROSETTI MARINO

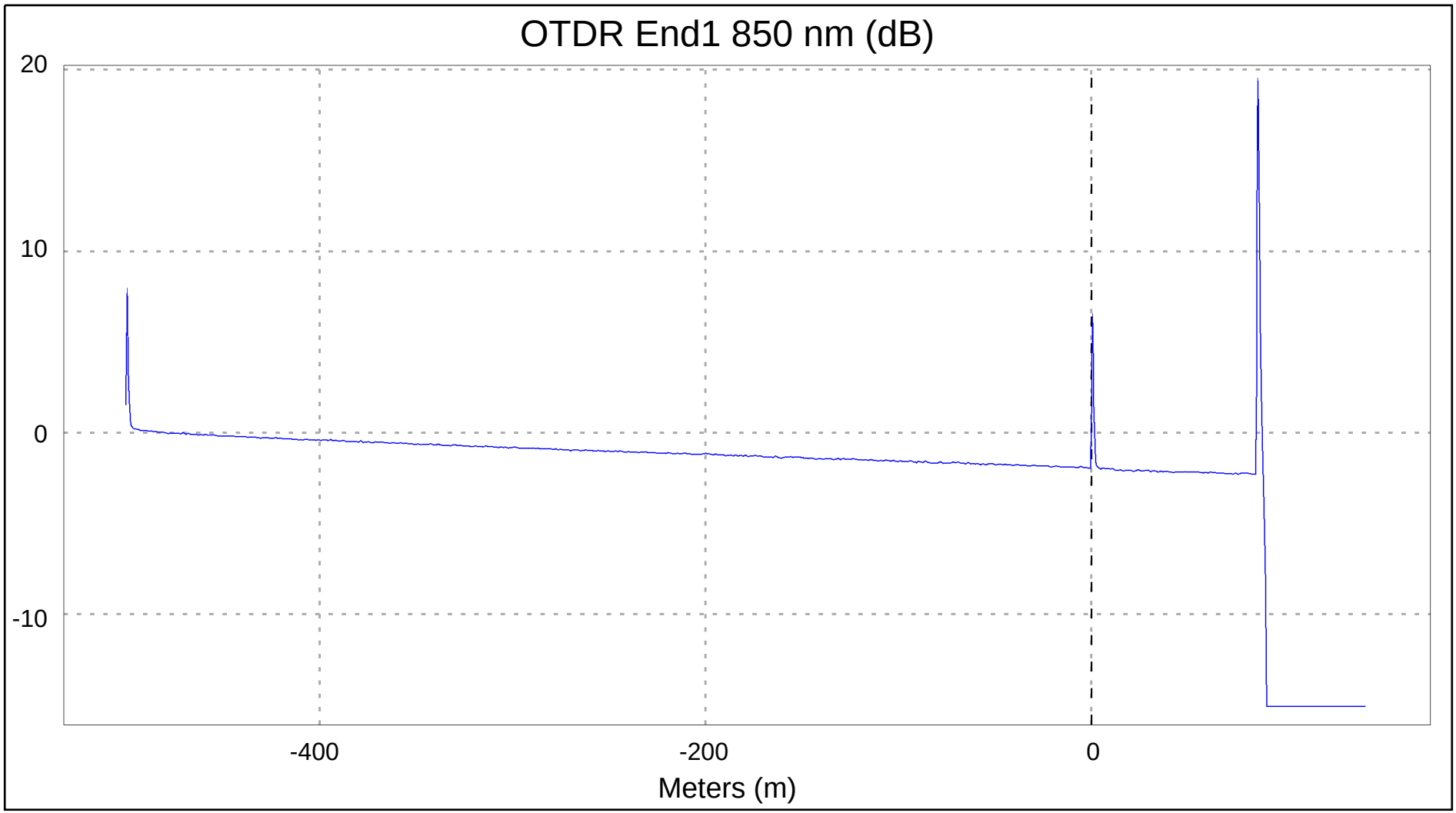
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 09:29:05
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

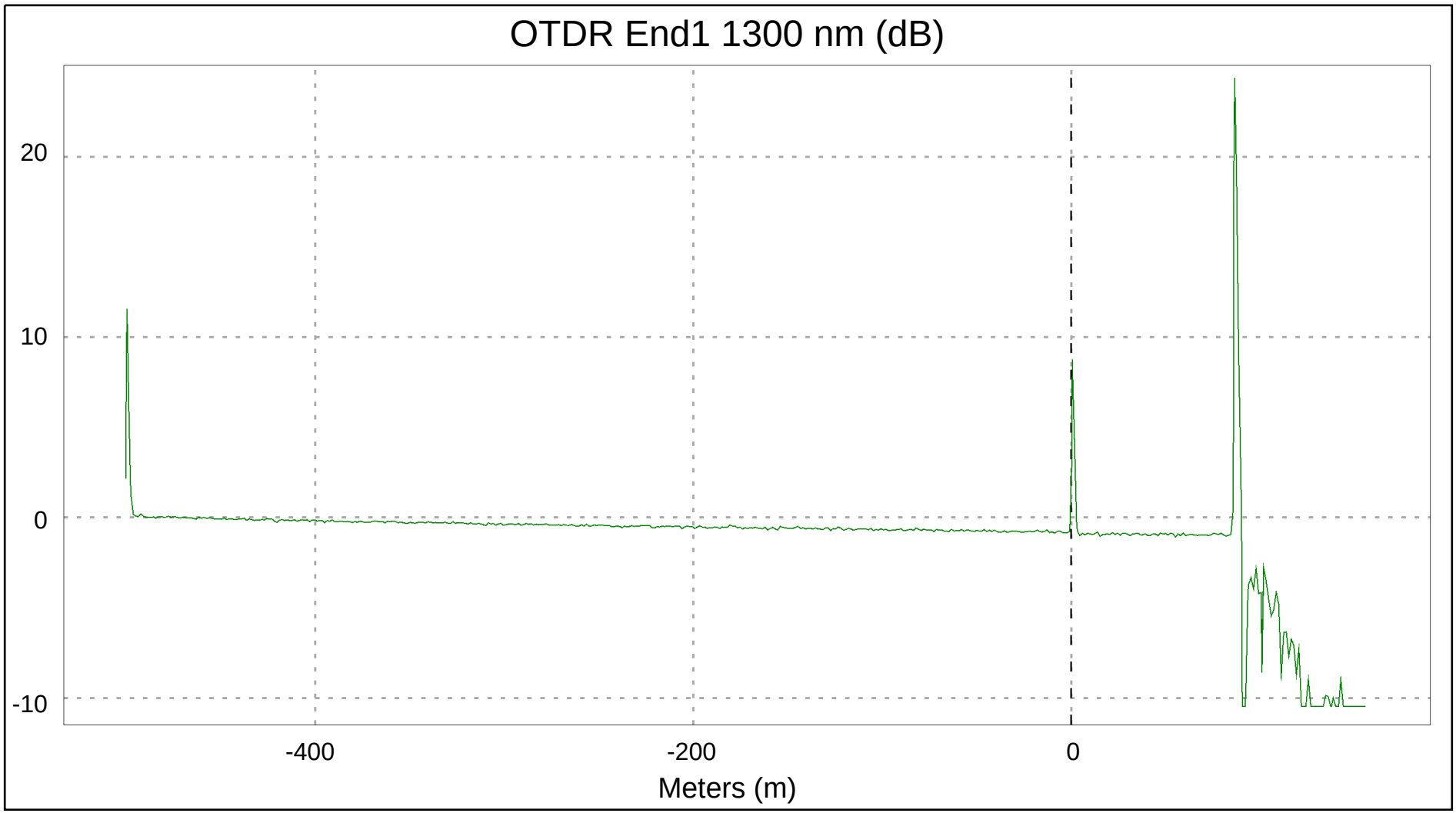
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 09:29:05
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

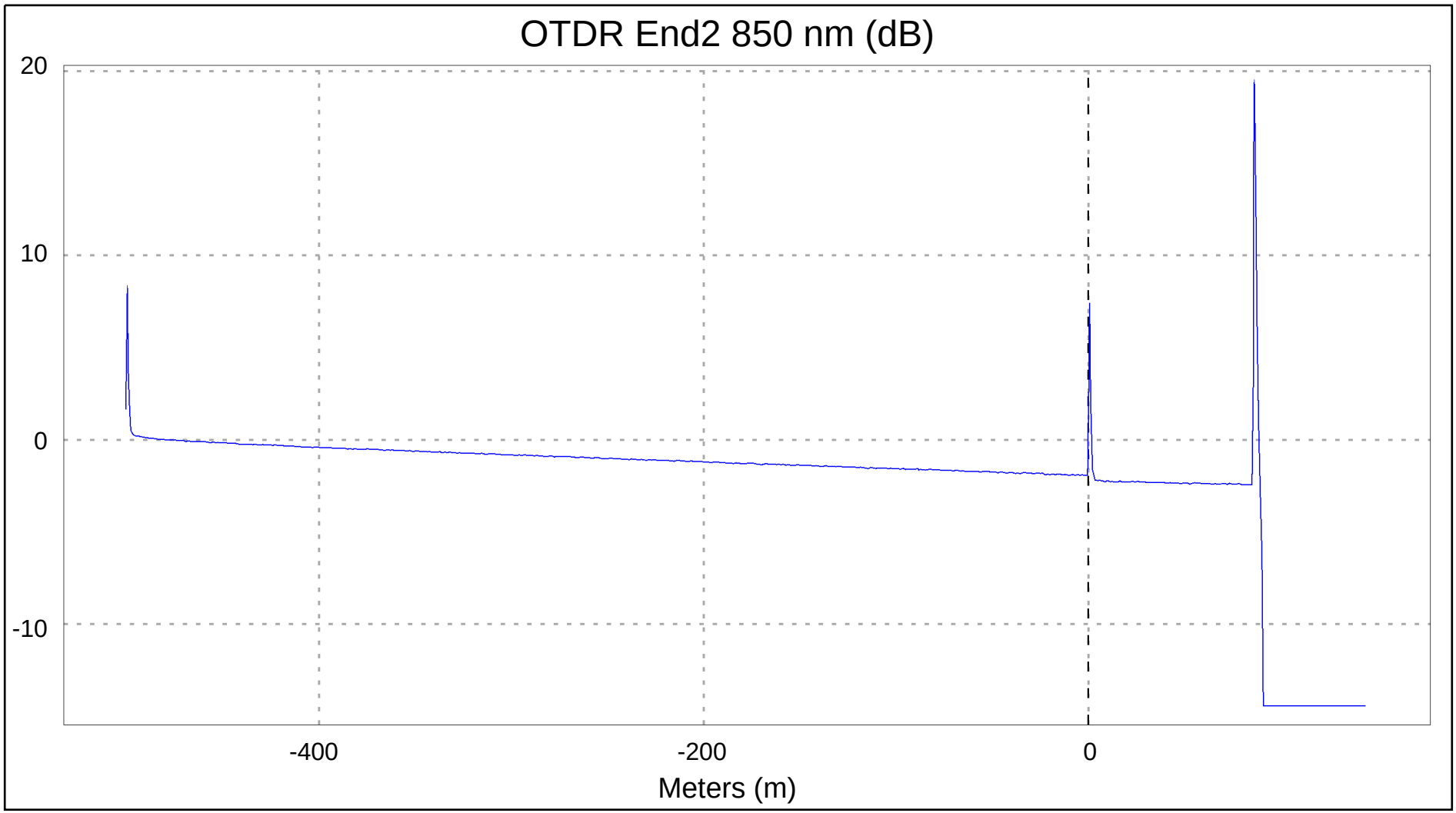
Cable ID: 012

Date / Time: 31-01-2025 09:29:05
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.01
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

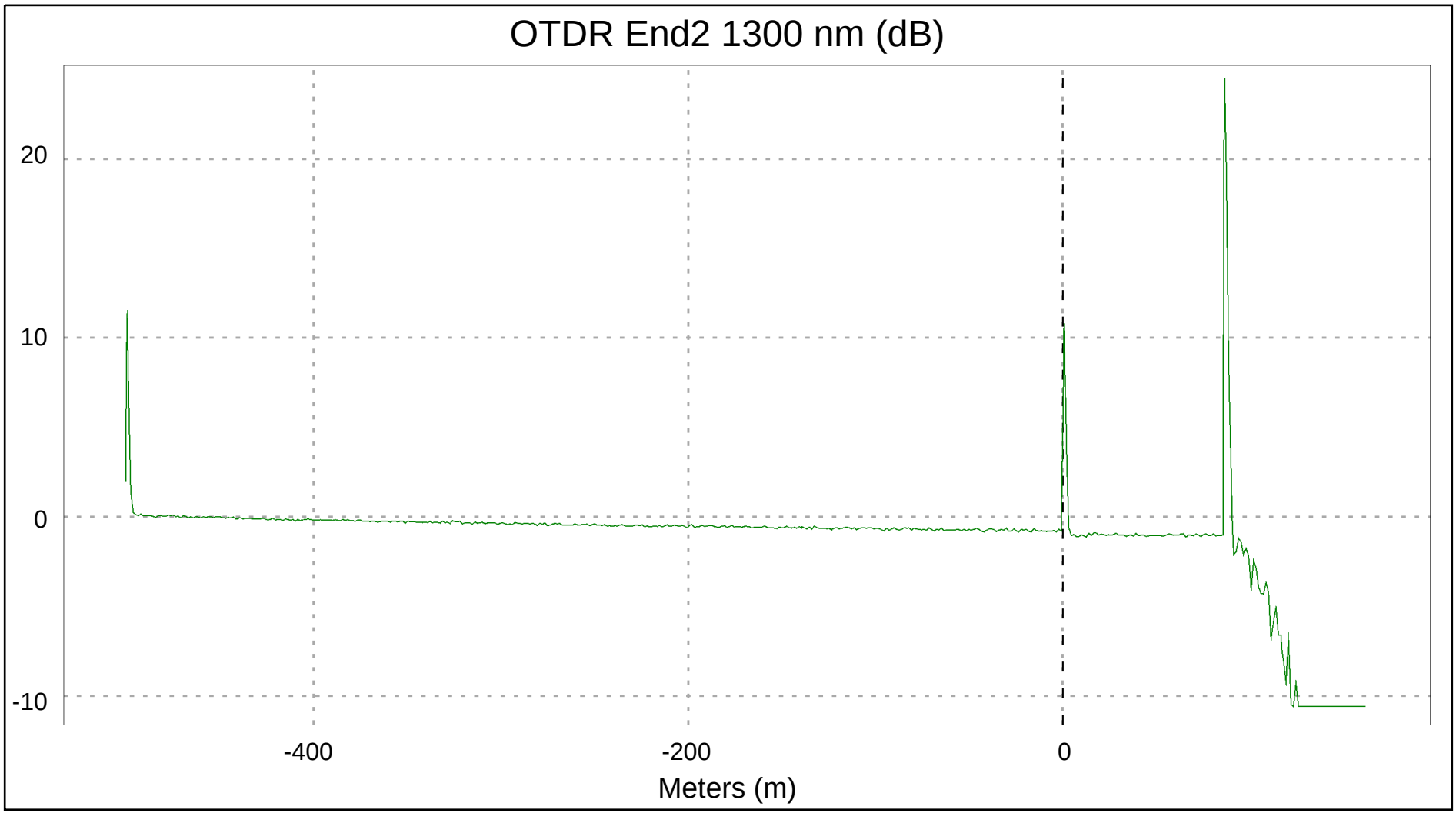
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 09:29:05
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



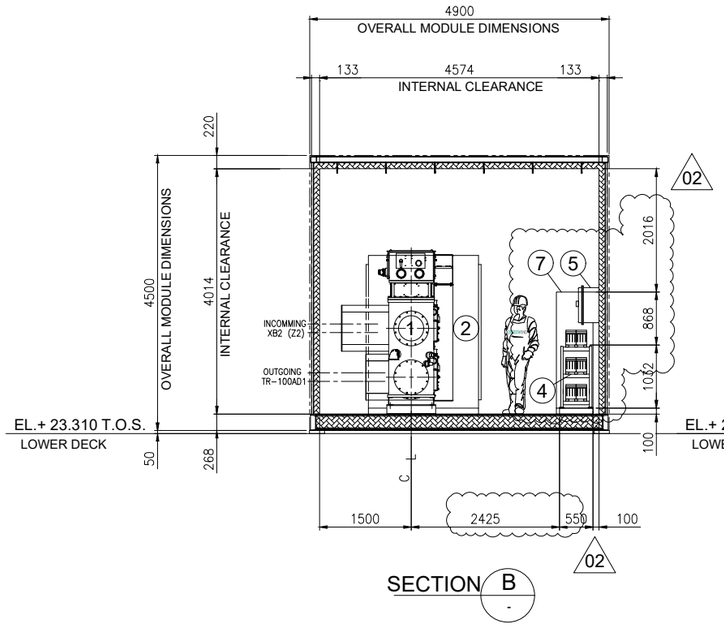
LinkWare™ PC Version 11.4

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Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

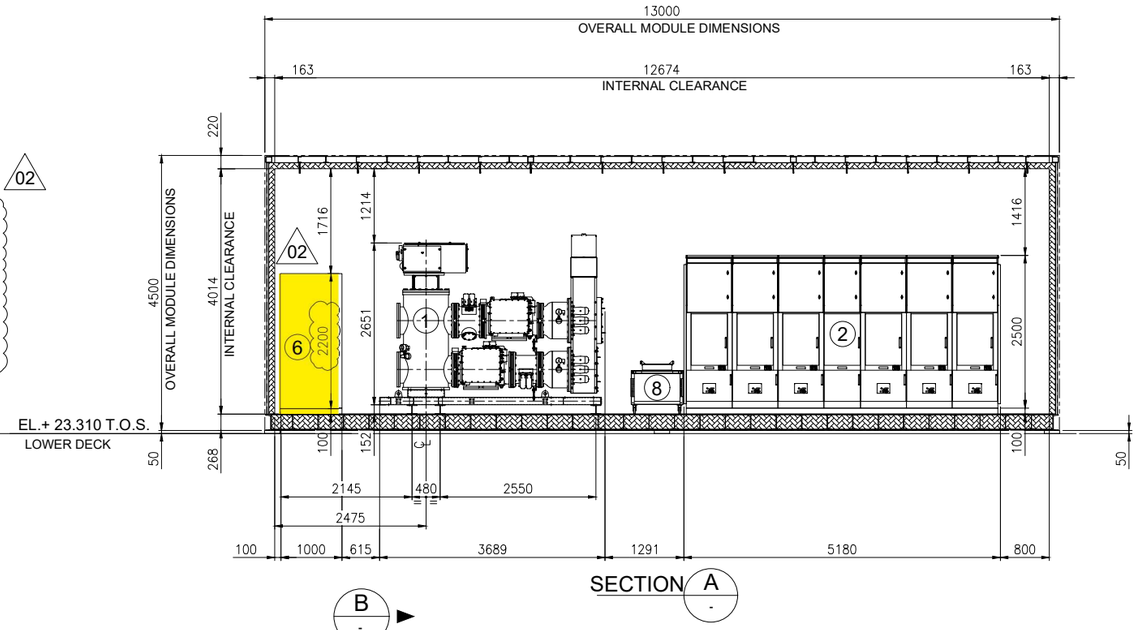
Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

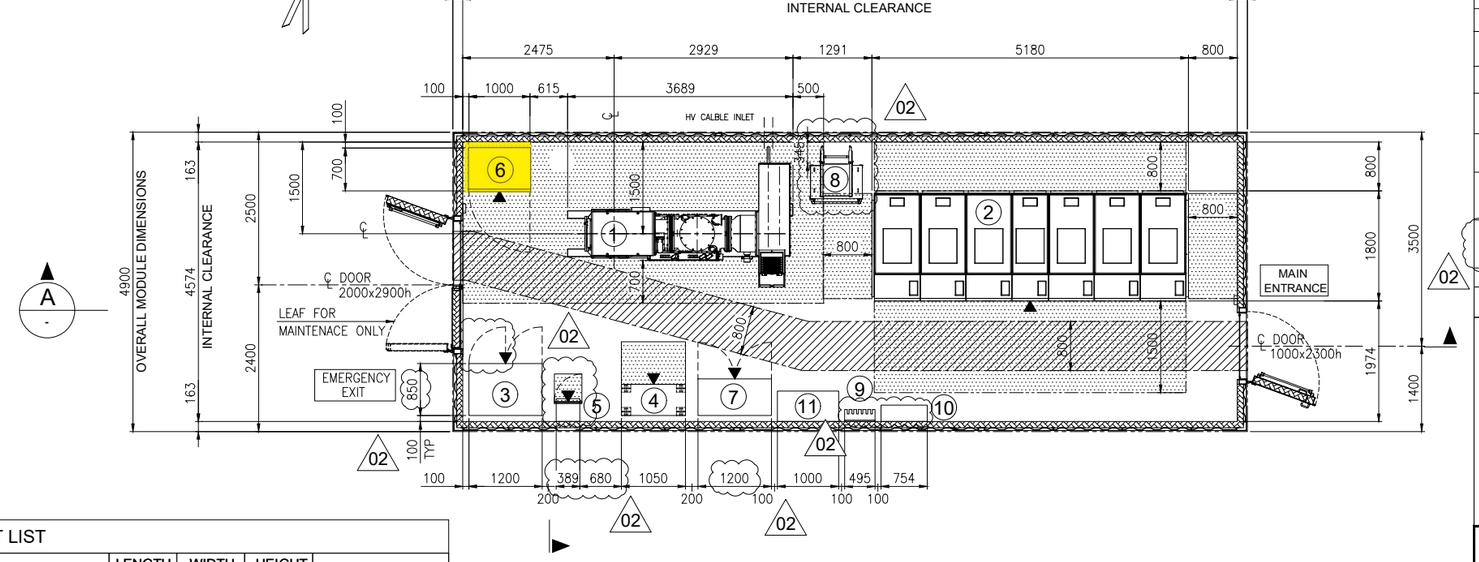
DRAWING NO. 123A90-DDL-EL-DL-20104 | REV. 02



SECTION B -

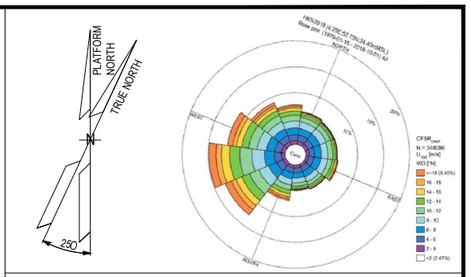


SECTION A -



EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	HNA6-AFA70	66kV SWITCHGEAR (GIS)	3689	2025	2651	
2	SG-100D1	6.6kV SWITCHGEAR	5180	1800	2500	
3	UP-200F1	DC UPS PANEL	1200	850	2105	
4	BA-200F1	DC UPS BATTERY RACK	1050	510	1272	
5	CB-200F1 02	ISOLATOR FOR DC UPS	452	377	634	
6	CP-100E1	66 kV SWITCHGEAR LOCAL CONTROL PANEL	1000	700	2200	02
7	B100-HSB-001	DISTRIBUTION & HVAC PANEL - HV MV ROOM	1200	600	1900	
8	-	SERVICE TROLLEY FOR 6.6kV SWITCHGEAR	943	862	874	
9	-	TOOL BOX	495	200	200	
10	-	SUBSTATION LIFE SAVING & INTERVENTION KIT	754	270	840	
11	-	TABLE	1000	500	750	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DELETED
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT.
4. FOR OTHER ITEMS, CORRECT LOCATION AND INFROMATION, PLEASE REFER TO VENDORS AND DEDICATED PROJECT DOCUMENTATION.
5. HEIGHT OF ALL PANELS IN THE EQUIPMENT LIST TABLE IS WITHOUT THE BASE FRAME (100mm)

02

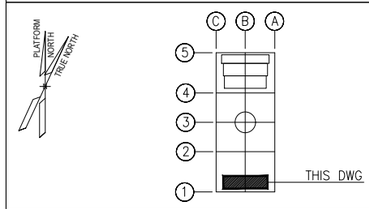
LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOSURE
_____ FRONT OF EQUIPMENT

REFERENCES

DOCUMENT TITLE	DOCUMENT NUMBER
66kV SWITCHGEAR (GIS) GENERAL ARRANGEMENT DRAWING	1723001595-EL-DA-00006
CIRCUIT AND WIRING DIAGRAM	1723001595-EL-DG-00015
SG-100D1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00006
DC UPS – GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS	1724000372-EL-DA-00003
DC UPS – BATTERY LAYOUT AND INTERCONNECTING DIAGRAM	1724000372-EL-DG-00010
B-100 - GENERAL ARRANGEMENT DRAWINGS - E&I SHELTER	1724000049-AR-DA-00014

KEY PLAN



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20104**

REV.:	DATE:	SIGNATURE:
2_A	08/08/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/05/2024	FMO	LMA/AMA	LMA/MDO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	10/11/2023	DSF	CB/AMA	DYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

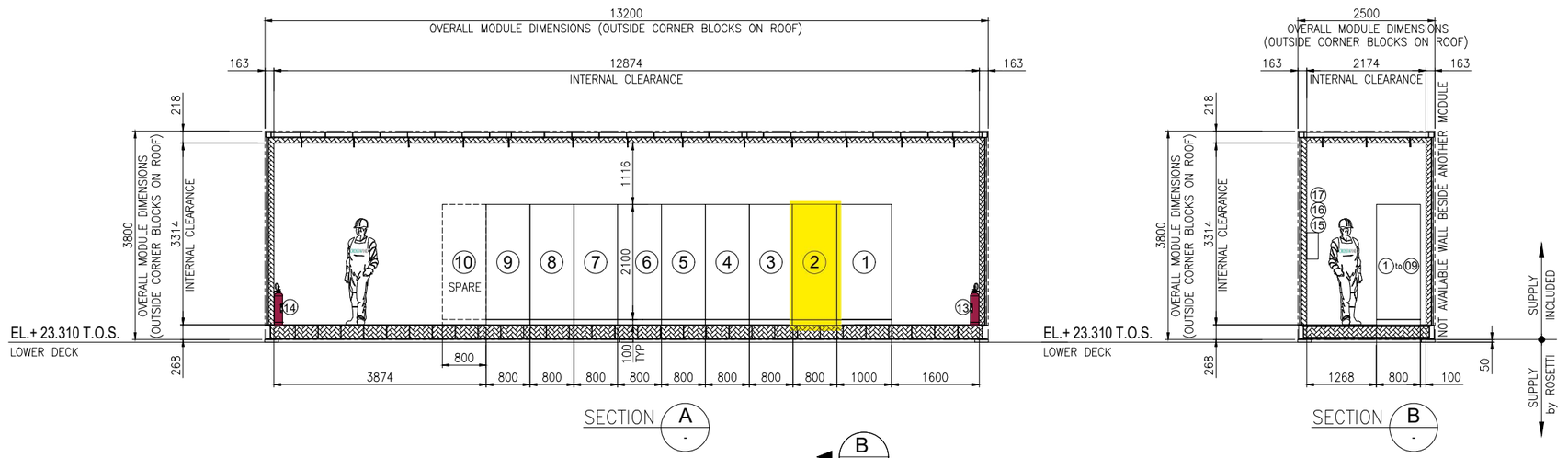
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
HV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN GPA	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 27/05/2024
A1	DRAWING NO. 123A90-DDL-EL-DL-20104	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20104_REV02.dwg

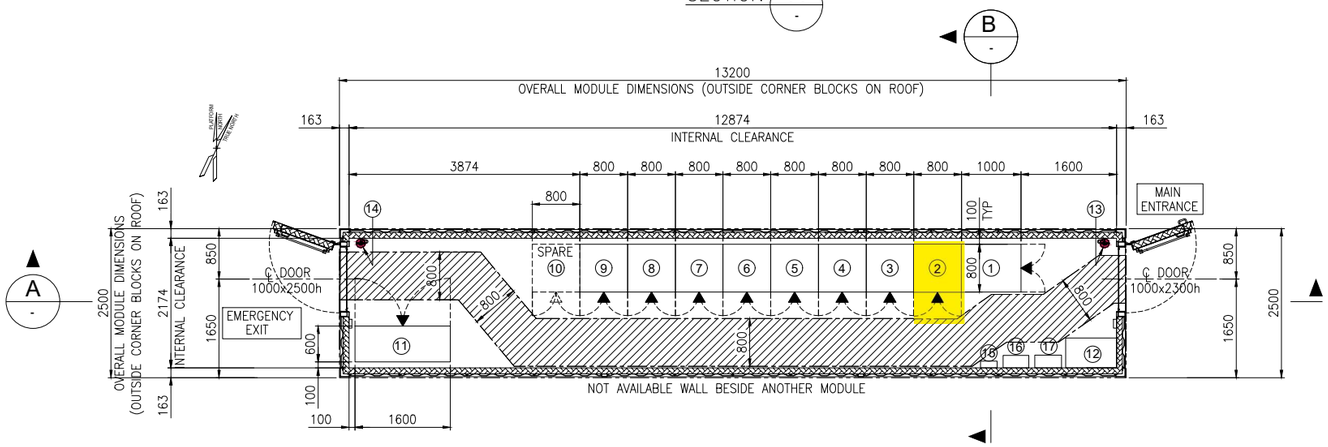
DRAWING NO. 123A90-DDL-IN-DL-40012

REV. 03



SECTION A -

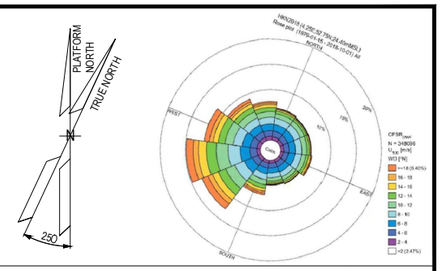
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

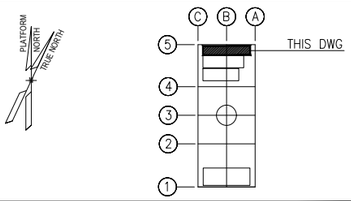
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

HV SWITCHROOM (B-100)

GIS LCP PANEL - CP-100E1

EMCS-FDF

SPLICE BOX

SPARE

1 2
3 4
5 6
7 8
9 10
11 12

13 14 → 1 2
15 16 → 3 4
17 18 → 5 6
19 20 → 7 8
21 22 → 9 10
23 24 → 11 12

CP-100E1/B400-NET-001.01

~~CP-100E1/B400-EMCS-001.01~~

FO12OM2,ARM,F.Ret,ORANGE,NIS

CP-100E1/B400-NET-001.02

~~CP-100E1/B400-EMCS-001.02~~

FO12OM2,ARM,F.Ret,ORANGE,NIS

I&T EQUIPMENT ROOM (ITER B400)

~~EMCS SYSTEM - B400-EMCS-001~~

NETWORK SYSTEM - B400-NET-001

PATCH PANEL — FOPP-002 — <01>

1 2 → PORT - 1, PORT - 2
3 4 → PORT - 3, PORT - 4
5 6 → PORT - 5, PORT - 6
7 8 → PORT - 7, PORT - 8
9 10 → PORT - 9, PORT - 10
11 12 → PORT - 11, PORT - 12

1 2 → PORT - 1, PORT - 2
3 4 → PORT - 3, PORT - 4
5 6 → PORT - 5, PORT - 6
7 8 → PORT - 7, PORT - 8
9 10 → PORT - 9, PORT - 10
11 12 → PORT - 11, PORT - 12

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_I	29/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
COMMUNICATION – F.O.

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO. 123A90-DDL-IN-DG-40015	SHEET 041	REV. 01

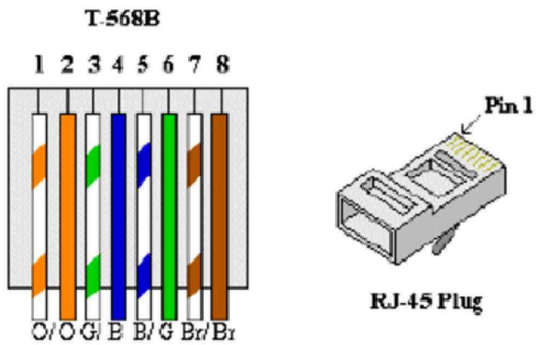
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



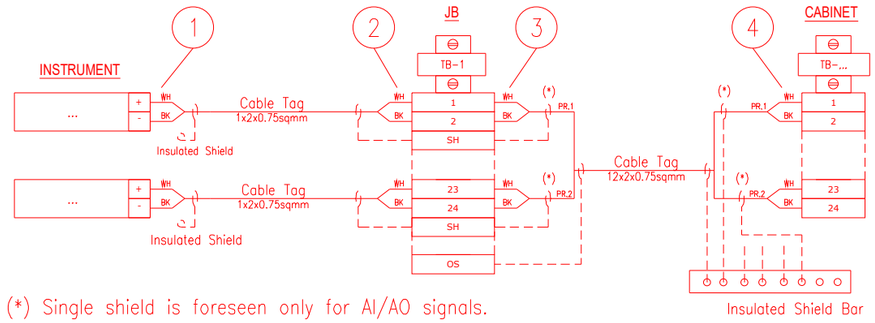
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

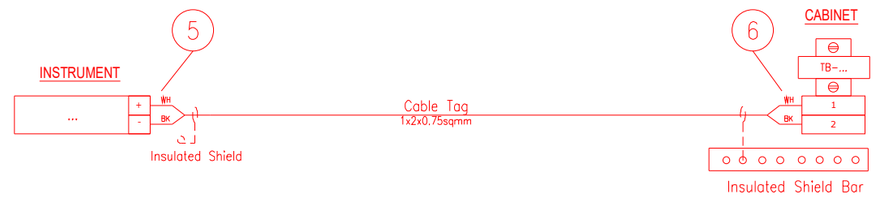
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

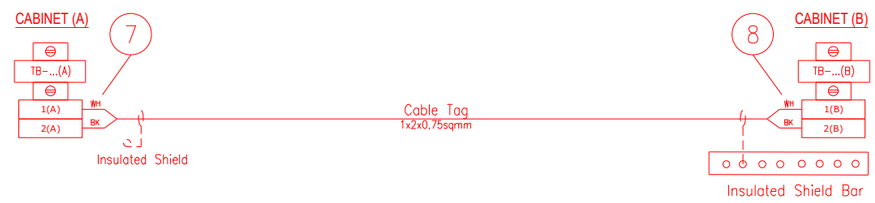
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_I	29/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
CP-100E1/B400-NET-001.01	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						CP-100E1	66 kV GIS Local Control Panel	Lower Deck (B-100)	B400-NET-001	Network Cabinet / EMCS System	Lower Deck (B-400)	TELCV01-12FO	Fibre Optic Cable 12X50/125 OM2 - Orange	M20S	T2_M20S_Double			n.a.				I-MCT-102 / B-100-SEC-1D / B-100-SEC-1C / B-100-SEC-1A / L-SEC-17 / L-SEC-1N / L-SEC-1M / L-SEC-1L / L-SEC-1J / L-SEC-1I / L-SEC-1H / L-SEC-1G / L-SEC-1F / L-SEC-1E / L-SEC-1D / L-SEC-1C / I-SEC-1B / L-SEC-1A / B-400-SEC-3A / B-400-SEC-2I / B-400-SEC-2G / B-400-SEC-2E / B-400-SEC-2C / B-400-SEC-3B / I-MCT-402

1	GENERAL	Cable Code	FO12 OM2
2		Drum Details.	TELCV01-12FO
3		Number of Drums	1
4		Ambient temperature min	Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C
5		Vendor Cable Code	(*)
6		Service	Communication cables - Fiber Optic type
7		Cable Description	FO-LSZH-SWB-LSZH
8		Cable Installation	Above Ground
9		Cable Type / Conductor size	12 Cores, Multi Mode OM2 - 50/125 µm
10		Cable Length [mt]	200
11		Cable Diameter (min / nor / max) - OVER ALL	8.5mm
12		Cable diameter(under armour)	
13		Fire Performance	Flame Retardant as per IEC 60332
14		Hazardous Area Classification	Zone-2, Gr IIC (II-B + H2), T1
15	FIBER	Mode	Multi Mode OS2 50/125 µm
16		Total No. of Cores	12
17		Size (Corer / Cladding / Buffer)	50/125 µm
18		Fiber Optic Cores Identification	According to TIA-598
19		Index Profile	Gradual
20		Number of Fiber Strands per tube	12
21		Standards	IEC 60793-1&2, IEC60794, IEC 61034-2, IEC 61280-4-1-9, TIA-526-14-B (by ITU-T G.651.1)
22		Attenuation	
23	LOOSE TUBE & FILLER	Material	
24		Colour	According to IEC 60304
25		Loose Tube Diameter	
26		Loose Tube Gel	Thixotropic Filling Gel (*)
27		Number of Loose Tube Gel	1
28		Number of Dummy Fillers	0
29		Filler Color	
30	SZ CORE	Sequence on elements in core	
31		Water Blocking Compound	Thixotropic Filling Gel (*)
32		Peripheral Strength Member	Glass Yarn over the SZ Core (*)
33		Core Wrapping	
34	CONSTRUCTION	Inner Sheath Material / Colour	Note 8
35		Inner Sheath Rip Cord	One rip cord inner sheath (*)
36		Inner Sheath Thickness	
37		Outer Sheath Material / Colour	Note 7 / ORANGE
38		Outer Sheath Rip Cord	One rip cord under the outer sheath (*)
39		Outer Sheath Thickness	1.5mm
40		Bending Radius	20xO.D During Installation, Permanent 10xO.D.
41		Minimum Laying Temperature	-40 °C
42		Strength Member Type / Diameter	FRP ROD / 2.8mm
		Armour	Steel Wire braiding (SWB)
43		Weight	100 Kg/Km
44	TESTS AND CERTIFICATES	Certificate of Conformity	Required
45		Material certification	Required
46		Test Report / Certification	Required
48			
49			
50	MISC	Manufacturer	FLEI
51		MR number	123A90-DDL-IN-MR-40065
52		PO number	1724001170
53			
54			

#	NOTE:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	CP-100E1/B400-NET-001.02	: 66 kV GIS Local Control Panel / Network Cabinet / EMCS System			Dwg	123A90-DDL-IN-LIS-40091
	S/Sys	86-20	: Fibre Optic Links			Module	LD_B-100/LD_B-400
TASK	code	C10004360		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Telecom	Form	CIX11 Fibre Optic/Patch Panel

CABLE DATA

Type	FO-LSZH-SWB-LSZH	Cores/Size mm²	12FO	Color	ORANGE
From	CP-100E1		To	B400-NET-001	

1	Check Fiber optical cable features is adapted and according to the project (type, cores number, structure, Fire resistance, etc..)	OK
2	Check cable physical integrity	OK
3	Check cable routing against drawings (segregation, distance, …)	OK
4	Check cable gland suit for cable type	OK
5	Check that Fibre Optic cable and core are correctly tagged against drawings	OK
6	Check correct interconnection as per wiring	OK
7	Check fibres are terminated correctly and secured.	OK
8	Check splicing box and protection adapted to environmental conditions	OK
9	Check End to End link is terminated in Optical Distribution Frame according to type of connectors (SC, ST, etc…).	OK
10	Check that minimum bending radius of fibre optic cables is met in cabinet/patch panel.	OK
11	Check visual installation complete.	OK
12	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-02-03	2025-02-04	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-02-03T13:59:27.283Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-02-04T13:11:49.636Z	

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
013	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:29
014	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:31
015	PASS	General Fiber RL = 35 dB	85.9 m	N/A	31-01-2025 09:32
016	PASS	General Fiber RL = 35 dB	85.9 m	N/A	31-01-2025 09:33
017	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:38
018	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:38
019	PASS	General Fiber RL = 35 dB	85.9 m	N/A	31-01-2025 09:39
020	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:39
021	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:40
022	PASS	General Fiber RL = 35 dB	85.9 m	N/A	31-01-2025 09:40
023	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:42
024	PASS	General Fiber RL = 35 dB	85.8 m	N/A	31-01-2025 09:43

Total Length:	1030.0 m
Number of Reports:	12
Number of Passing Reports:	12
Number of Failing Reports:	0
Number of Warning Reports:	0
Documentation Only:	0

Cable ID: 013

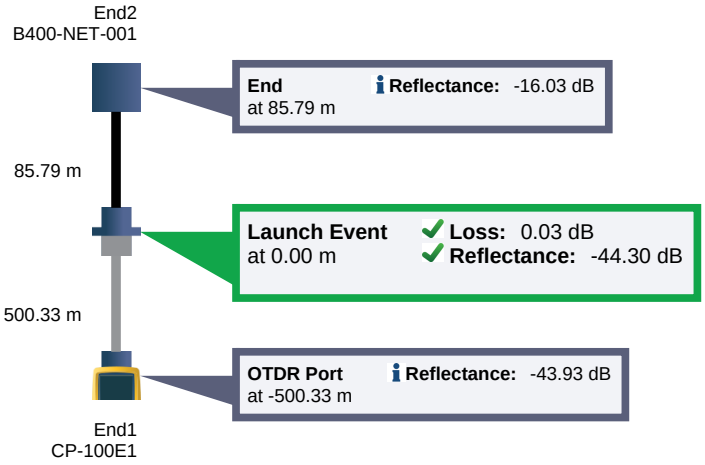
Date / Time: 31-01-2025 09:29:27
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.79 m
Overall Loss: 0.33 dB

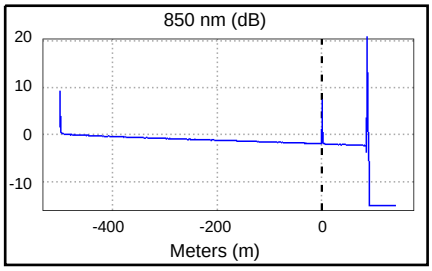


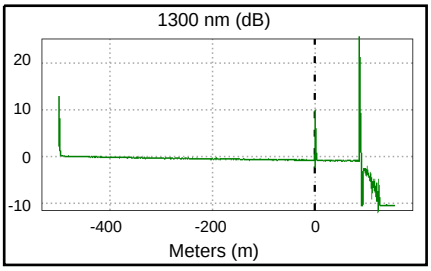
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:50:17
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	657 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.79			
Overall Loss (dB)		0.33		0.07	
ORL (dB)		37.97		43.78	
Events					
85.79 m End					
Reflectance (dB)		-16.03		-16.58	
Attn Coeff (dB/km)		3.46		0.65	

Cable ID: 013

Date / Time: 31-01-2025 09:29:27
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

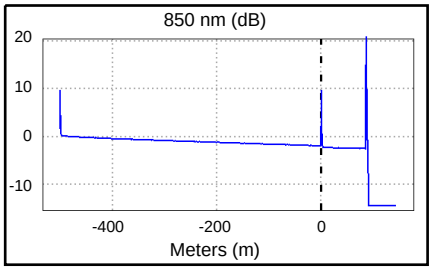
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.03	0.75	0.02	0.75
Reflectance (dB)		-44.30	-35.00	-46.46	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.87		-43.93	

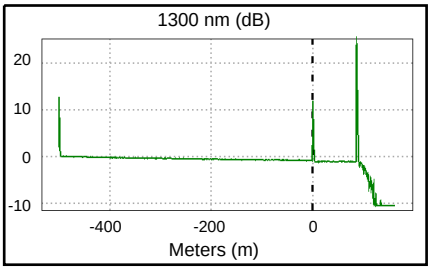
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:29:27
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	663 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.82			
Overall Loss (dB)		0.51		0.20	
ORL (dB)		36.78		40.64	
Events					
85.82 m End					
Reflectance (dB)		-15.54		-16.39	
Attn Coeff (dB/km)		2.57		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.29	0.75	0.11	0.75
Reflectance (dB)		-39.82	-35.00	-41.29	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.11		-44.05	

ROSETTI MARINO

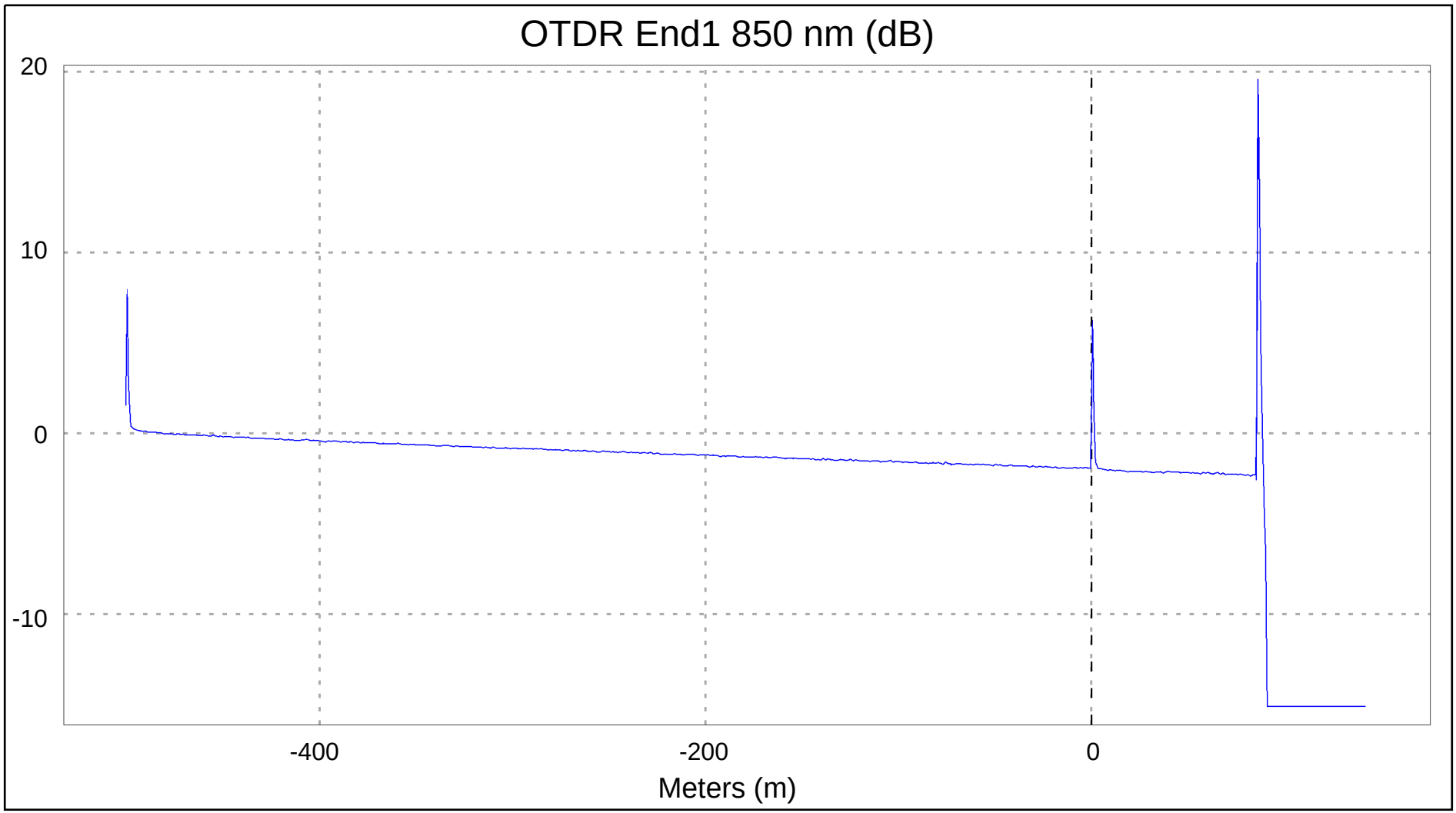
Cable ID: 013

Test Summary: PASS

Date / Time: 31-01-2025 09:29:27
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

FLUKE networks

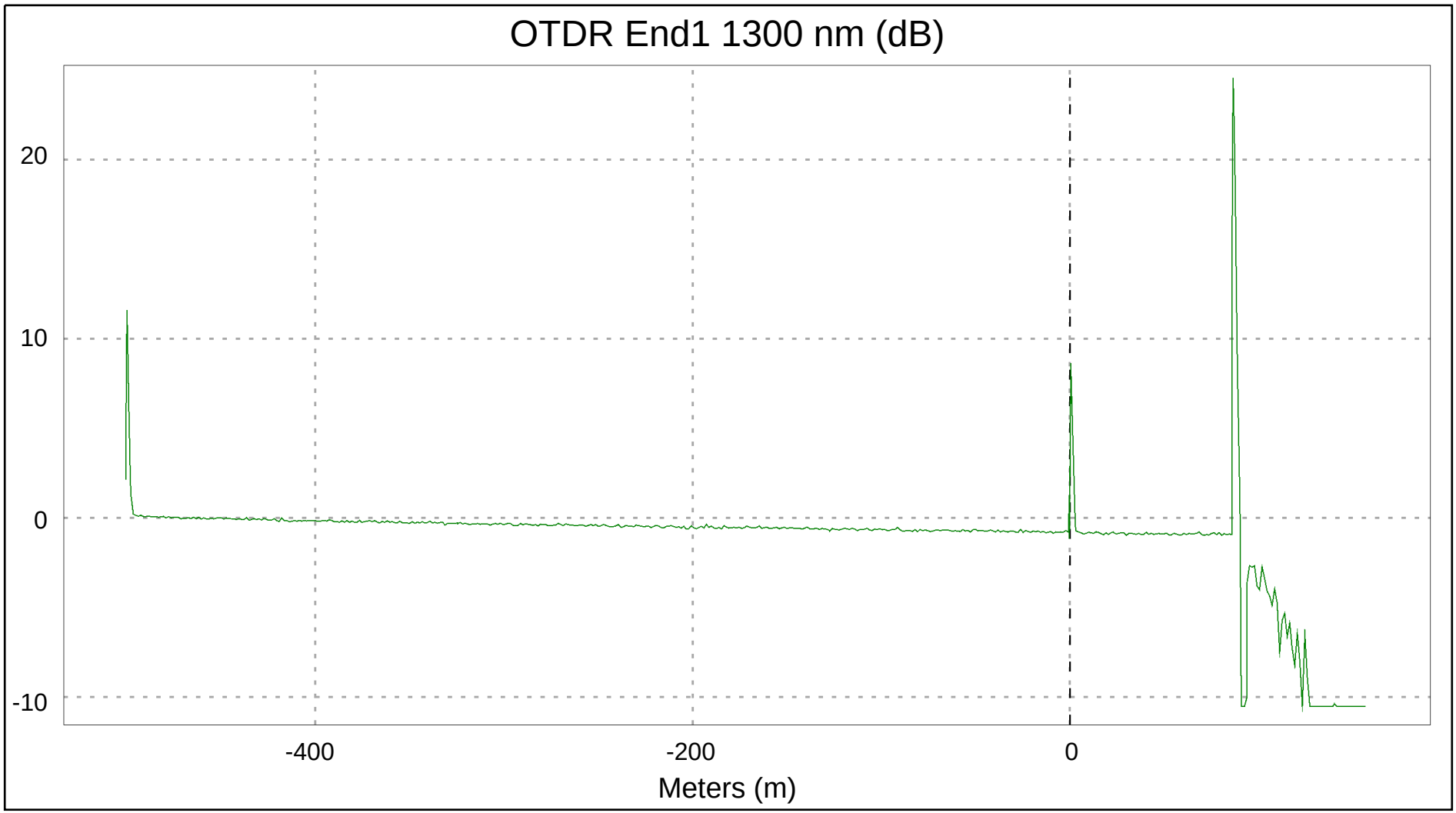
Cable ID: 013

Test Summary: PASS

Date / Time: 31-01-2025 09:29:27
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

ROSETTI MARINO

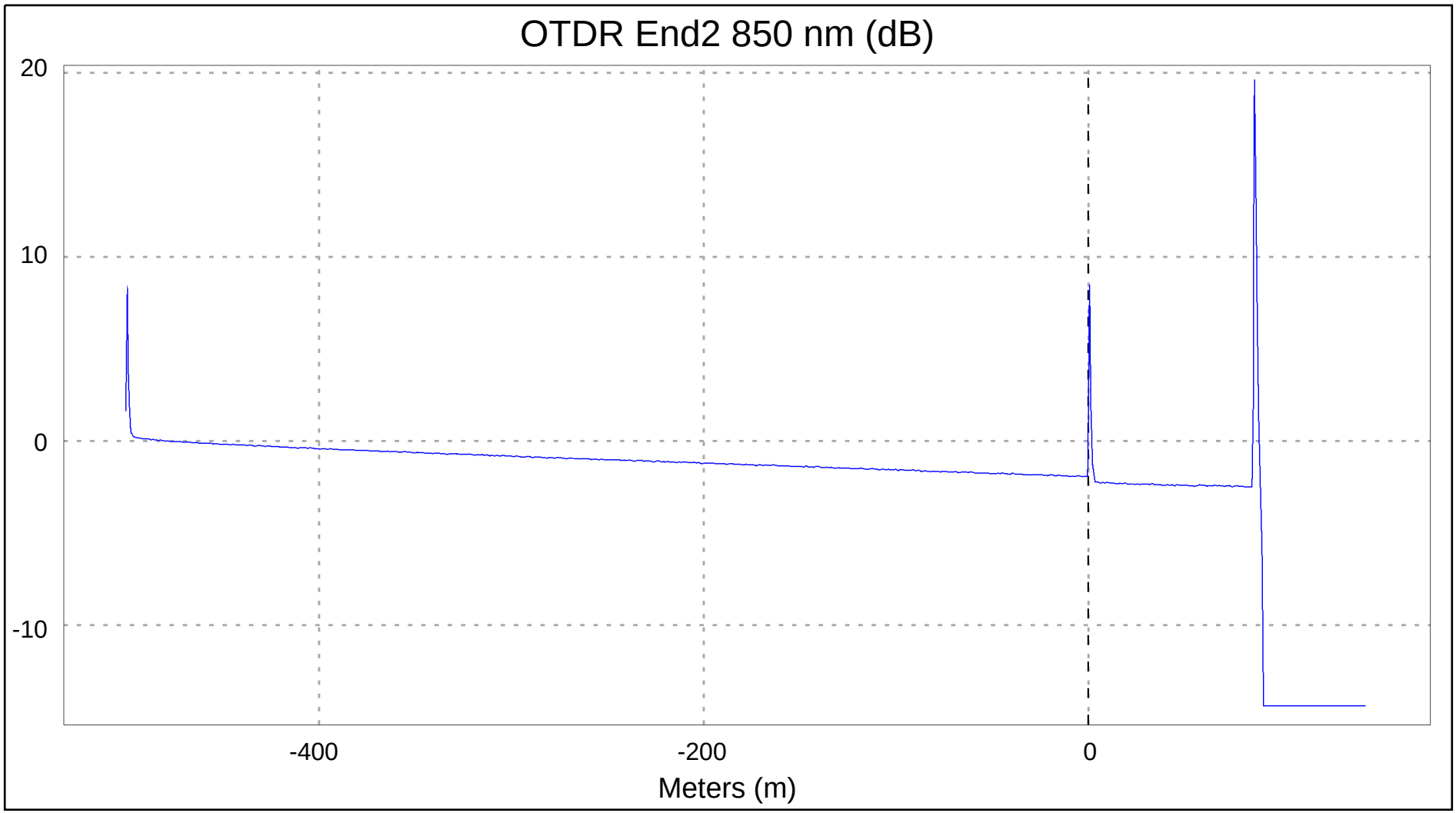
Cable ID: 013

Test Summary: PASS

Date / Time: 31-01-2025 09:29:27
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

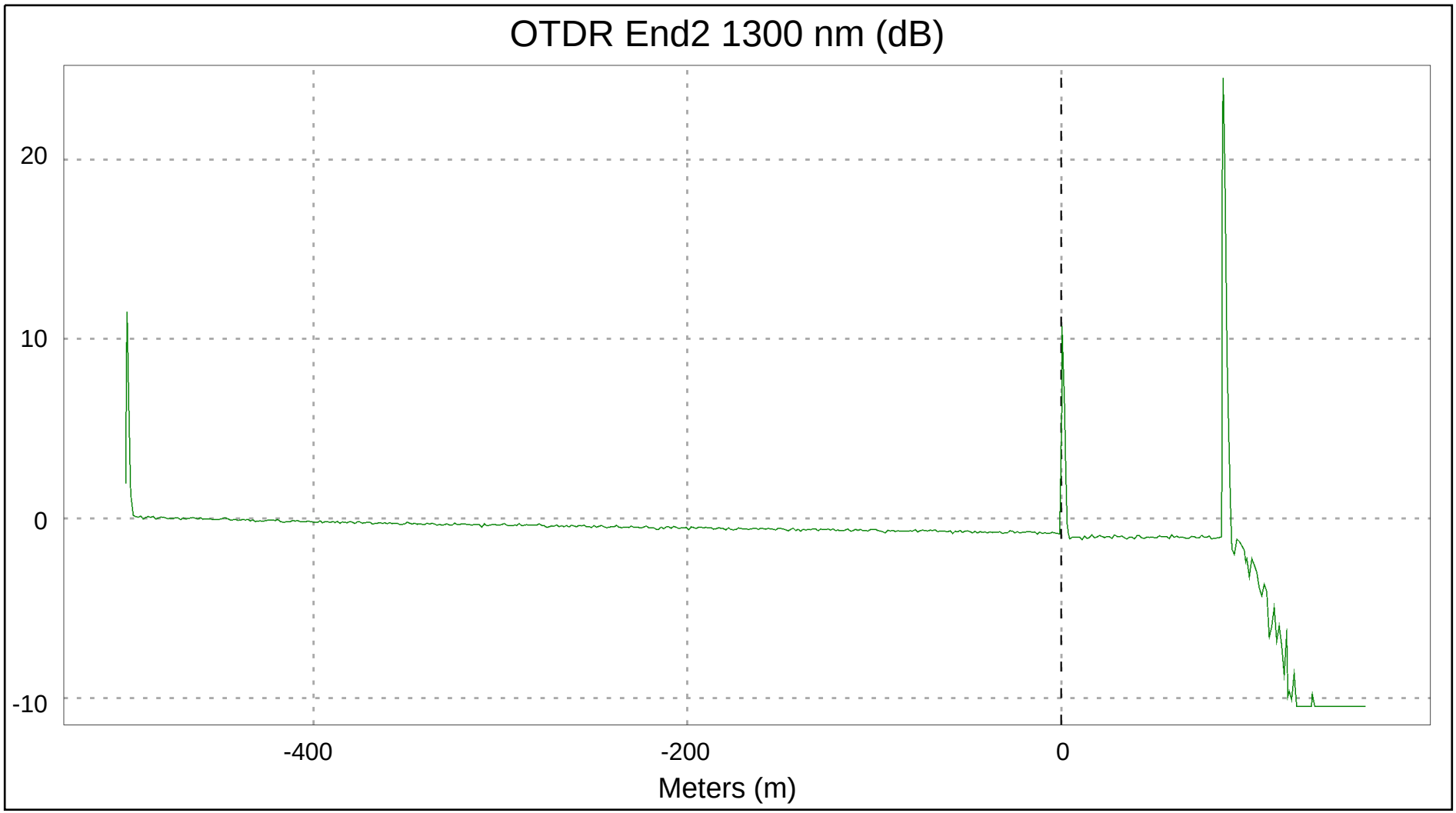
Cable ID: 013

Test Summary: PASS

Date / Time: 31-01-2025 09:29:27
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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FLUKE networks

Cable ID: 014

Date / Time: 31-01-2025 09:31:02
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

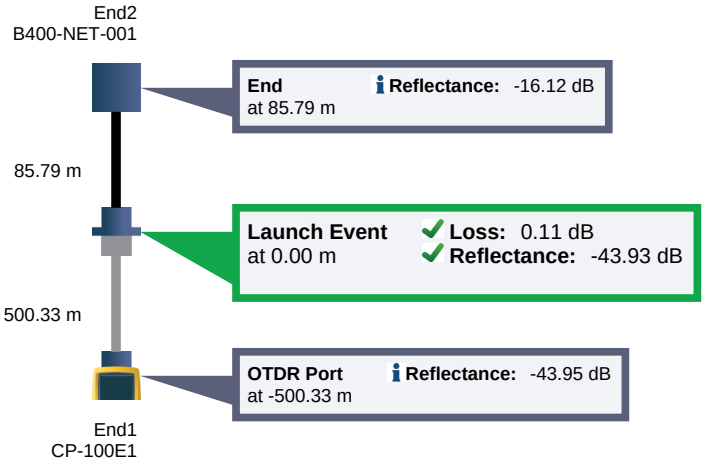
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.79 m
Overall Loss: 0.40 dB

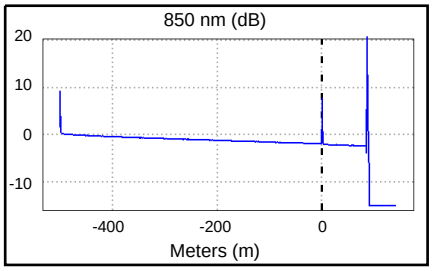


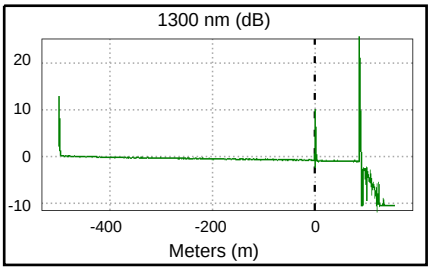
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:50:36
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	657 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.79			
Overall Loss (dB)		0.40		0.20	
ORL (dB)		37.99		43.68	
Events					
85.79 m End					
Reflectance (dB)		-16.12		-16.63	
Attn Coeff (dB/km)		3.52		1.07	

Cable ID: 014

Date / Time: 31-01-2025 09:31:02
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

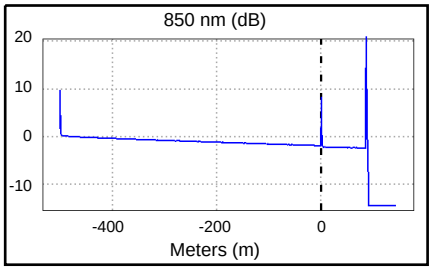
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.10	0.75	0.11	0.75
Reflectance (dB)		-43.93	-35.00	-46.03	-35.00
Attn Coeff (dB/km)		3.93		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-44.80		-43.95	

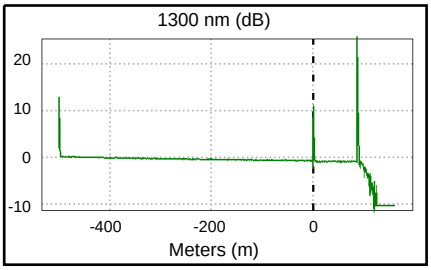
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:31:02
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.85			
Overall Loss (dB)		0.46		0.15	
ORL (dB)		37.79		42.31	
Events					
85.85 m End					
Reflectance (dB)		-15.56		-16.51	
Attn Coeff (dB/km)		2.59		0.30	
0.00 m Launch Event	PASS				
Loss (dB)		0.23	0.75	0.12	0.75
Reflectance (dB)		-42.65	-35.00	-43.70	-35.00
Attn Coeff (dB/km)		3.94		1.66	
-500.33 m OTDR Port					
Reflectance (dB)		-44.10		-43.94	

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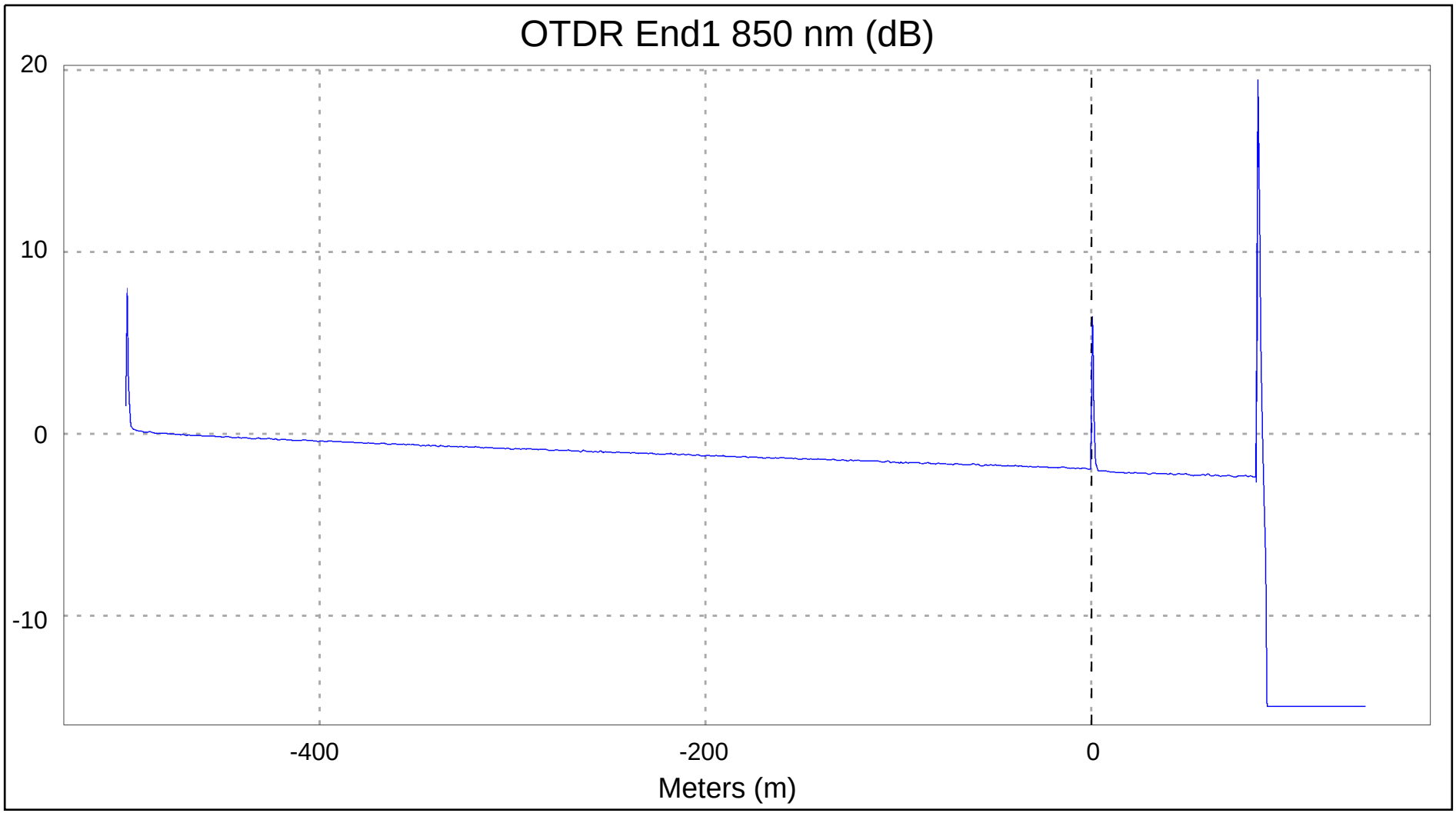
Cable ID: 014

Test Summary: PASS

Date / Time: 31-01-2025 09:31:02
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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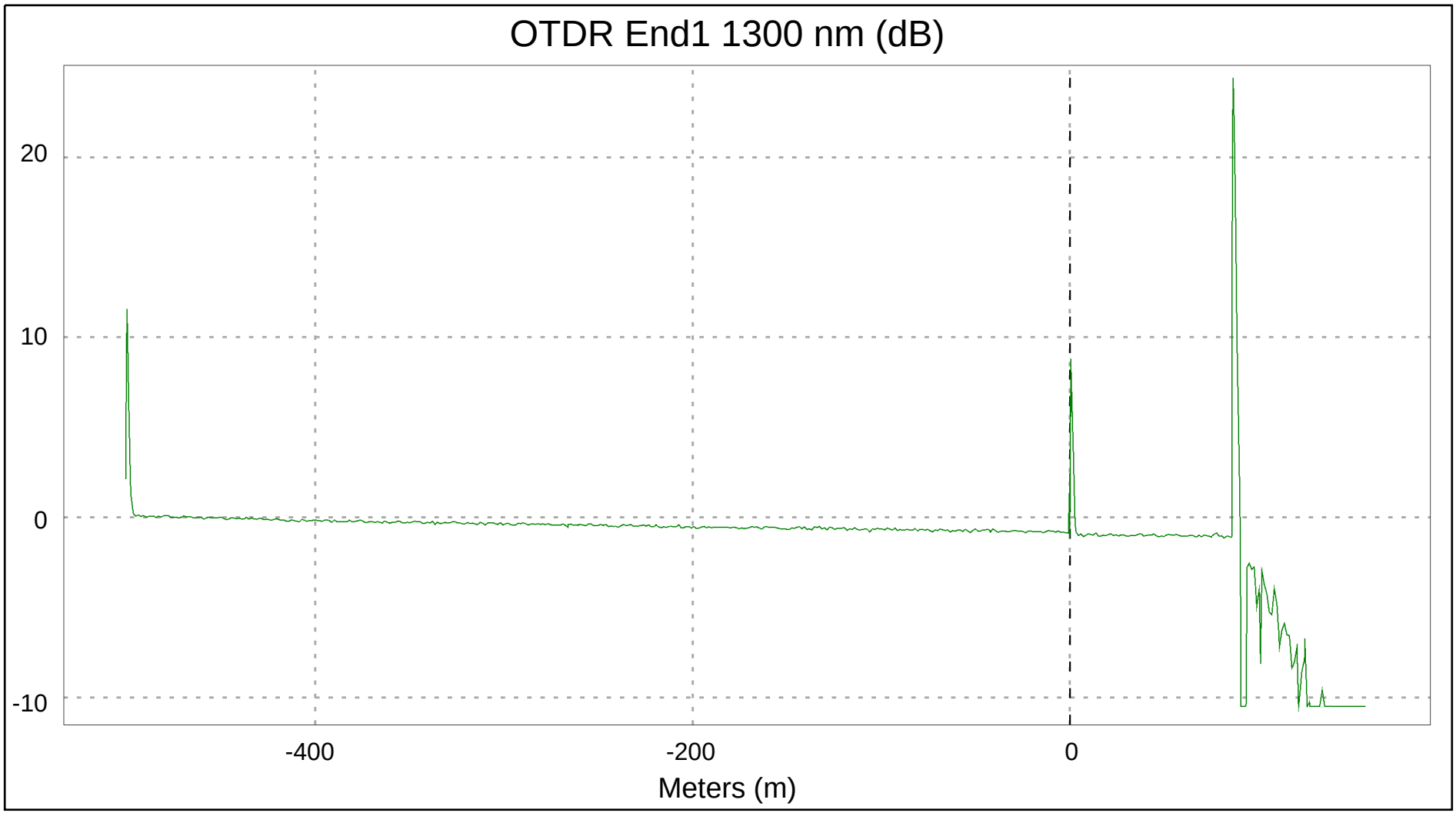
Cable ID: 014

Test Summary: PASS

Date / Time: 31-01-2025 09:31:02
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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ROSETTI MARINO

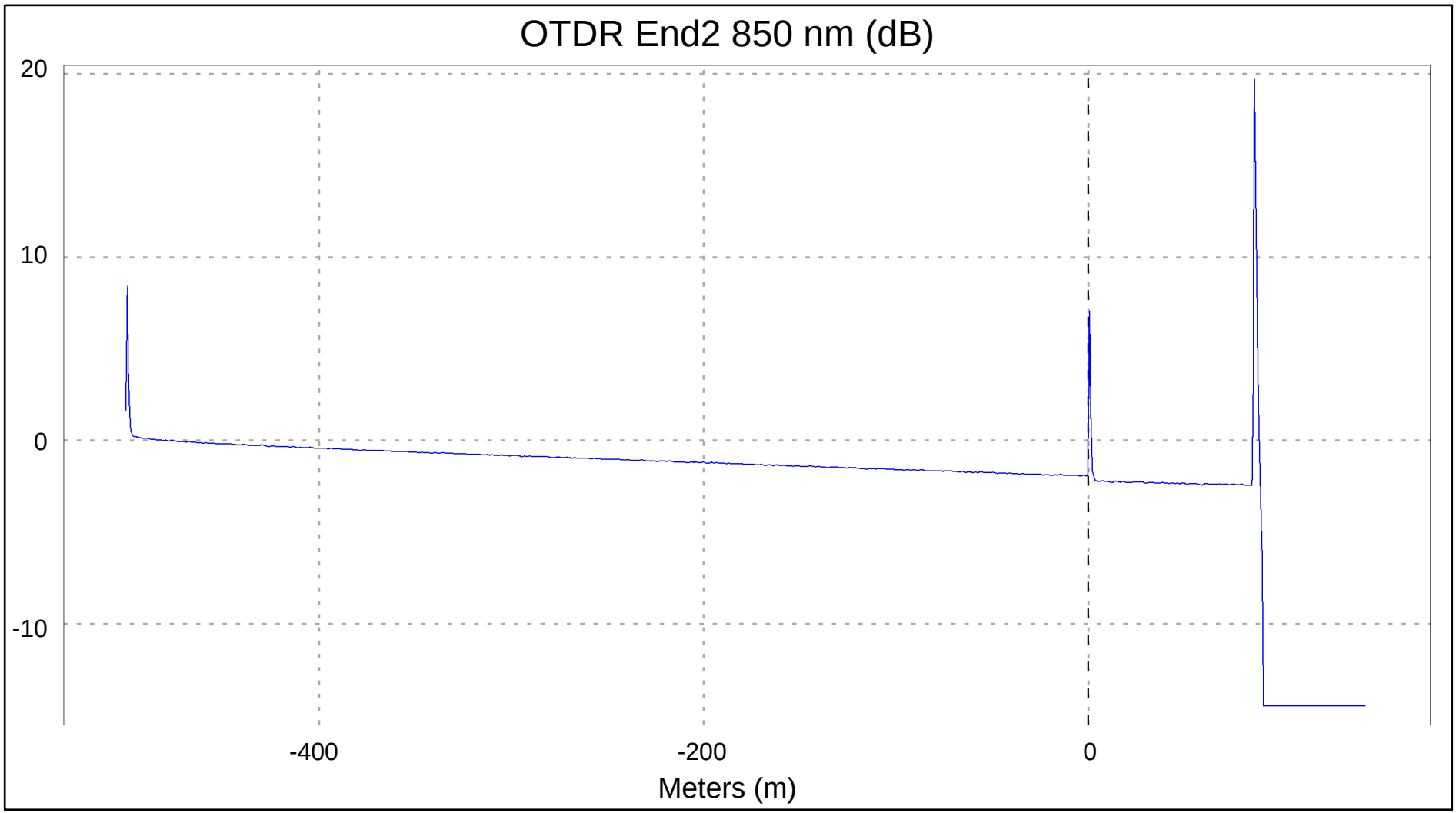
Cable ID: 014

Test Summary: PASS

Date / Time: 31-01-2025 09:31:02
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

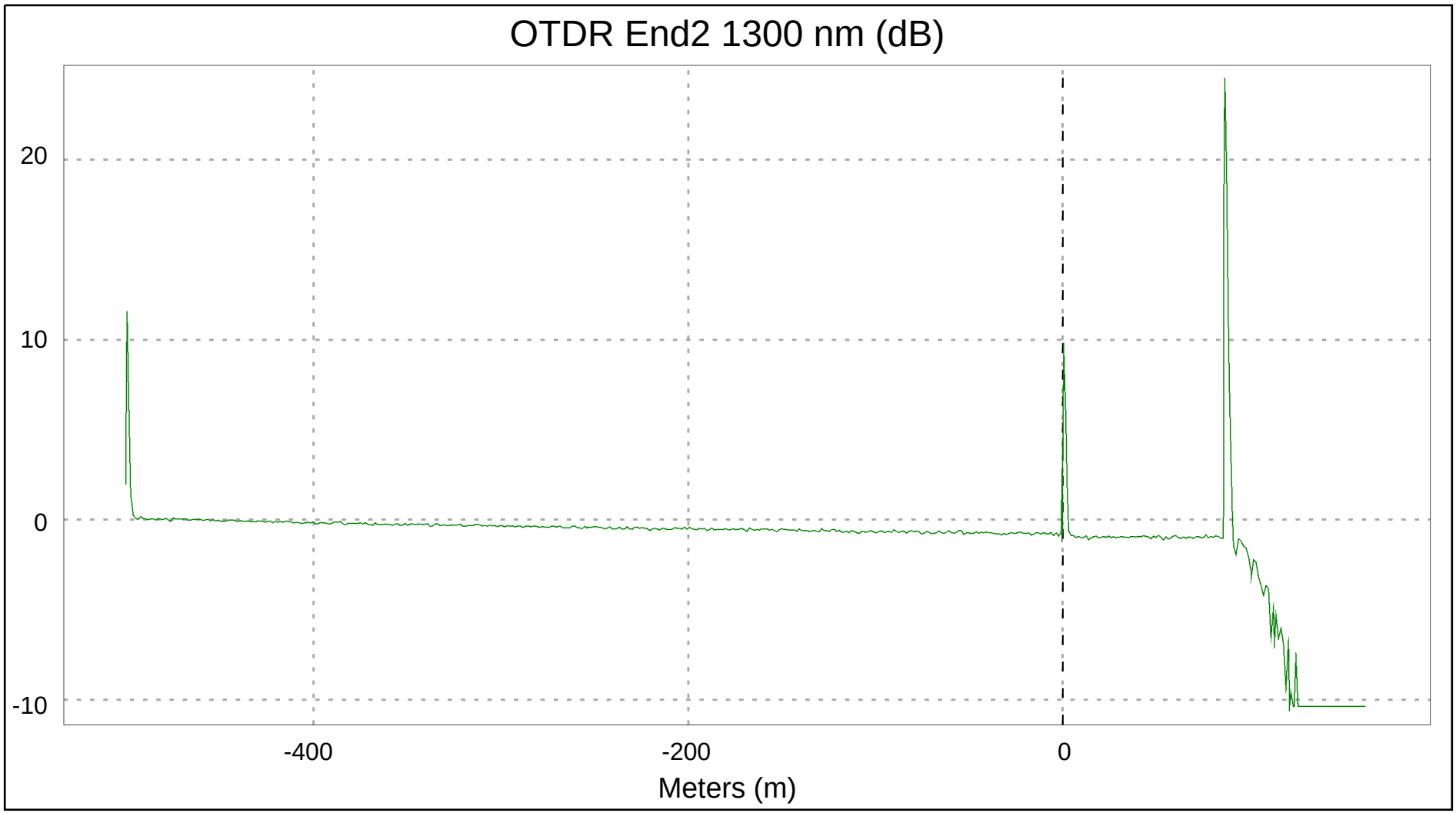
Cable ID: 014

Test Summary: PASS

Date / Time: 31-01-2025 09:31:02
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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Cable ID: 015

Date / Time: 31-01-2025 09:32:00
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

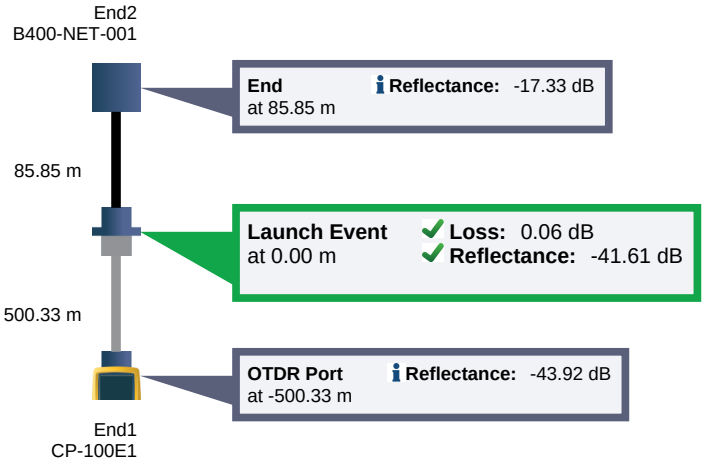
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.85 m
Overall Loss: 0.29 dB

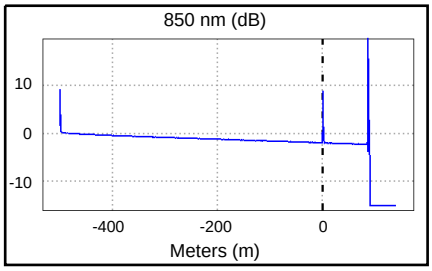


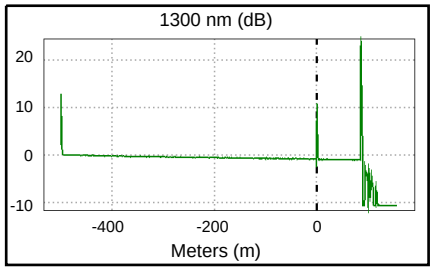
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:50:55
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	658 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.85			
Overall Loss (dB)		0.29		0.14	
ORL (dB)		37.18		42.51	
Events					
85.85 m End					
Reflectance (dB)		-17.33		-18.07	
Attn Coeff (dB/km)		3.17		0.83	

Cable ID: 015

Date / Time: 31-01-2025 09:32:00
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

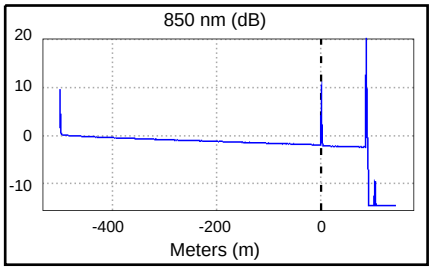
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.01	0.75	0.06	0.75
Reflectance (dB)		-41.61	-35.00	-44.07	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.83		-43.92	

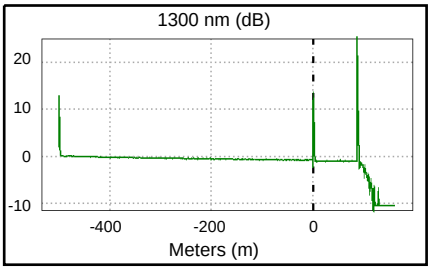
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:32:00
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.88			
Overall Loss (dB)		0.39		0.17	
ORL (dB)		35.09		37.69	
Events					
85.88 m End					
Reflectance (dB)		-16.33		-17.09	
Attn Coeff (dB/km)		2.62		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.16	0.75	0.09	0.75
Reflectance (dB)		-36.90	-35.00	-37.70	-35.00
Attn Coeff (dB/km)		3.95		1.67	
-500.33 m OTDR Port					
Reflectance (dB)		-44.07		-43.93	

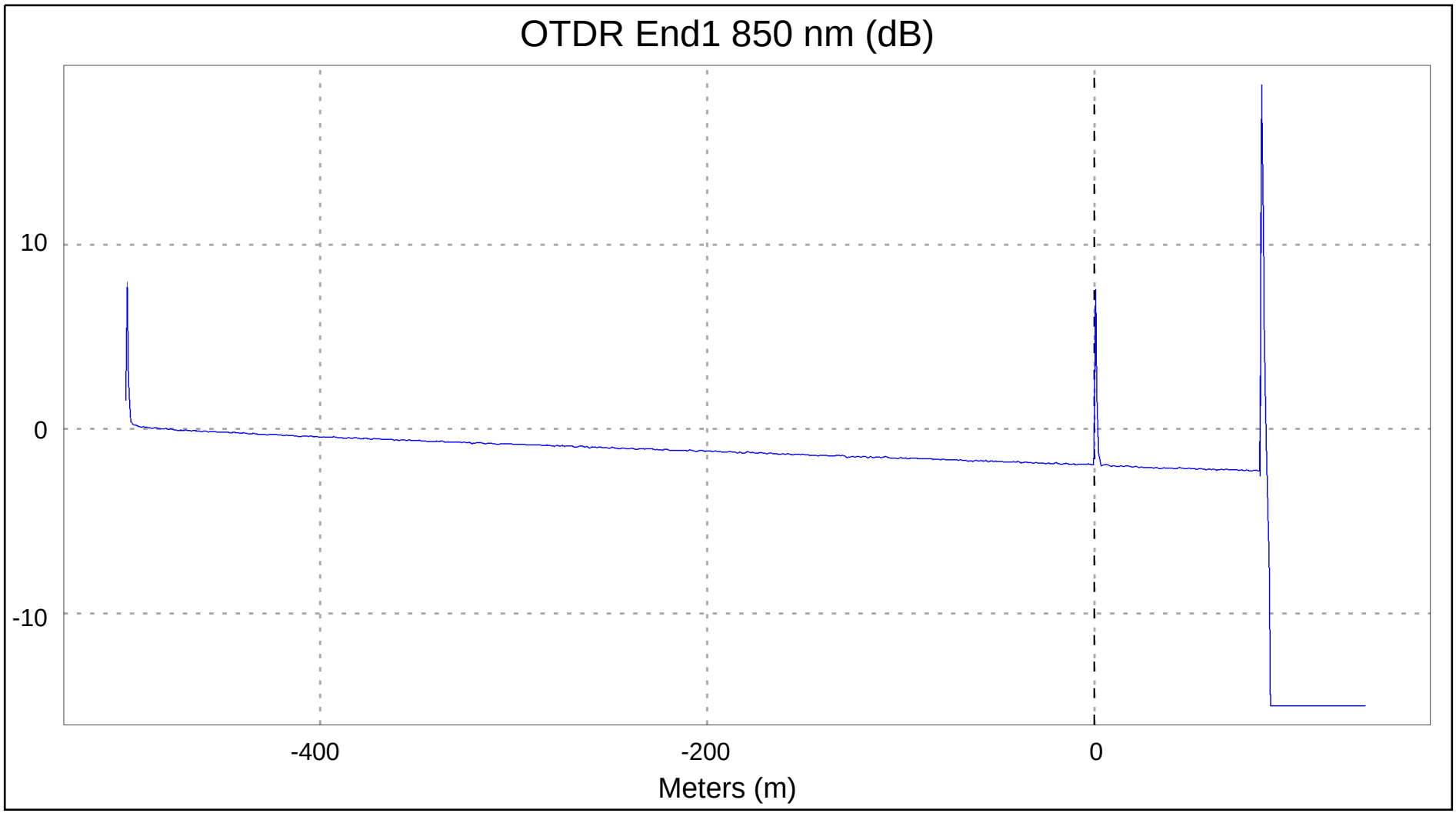
Cable ID: 015

Date / Time: 31-01-2025 09:32:00
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

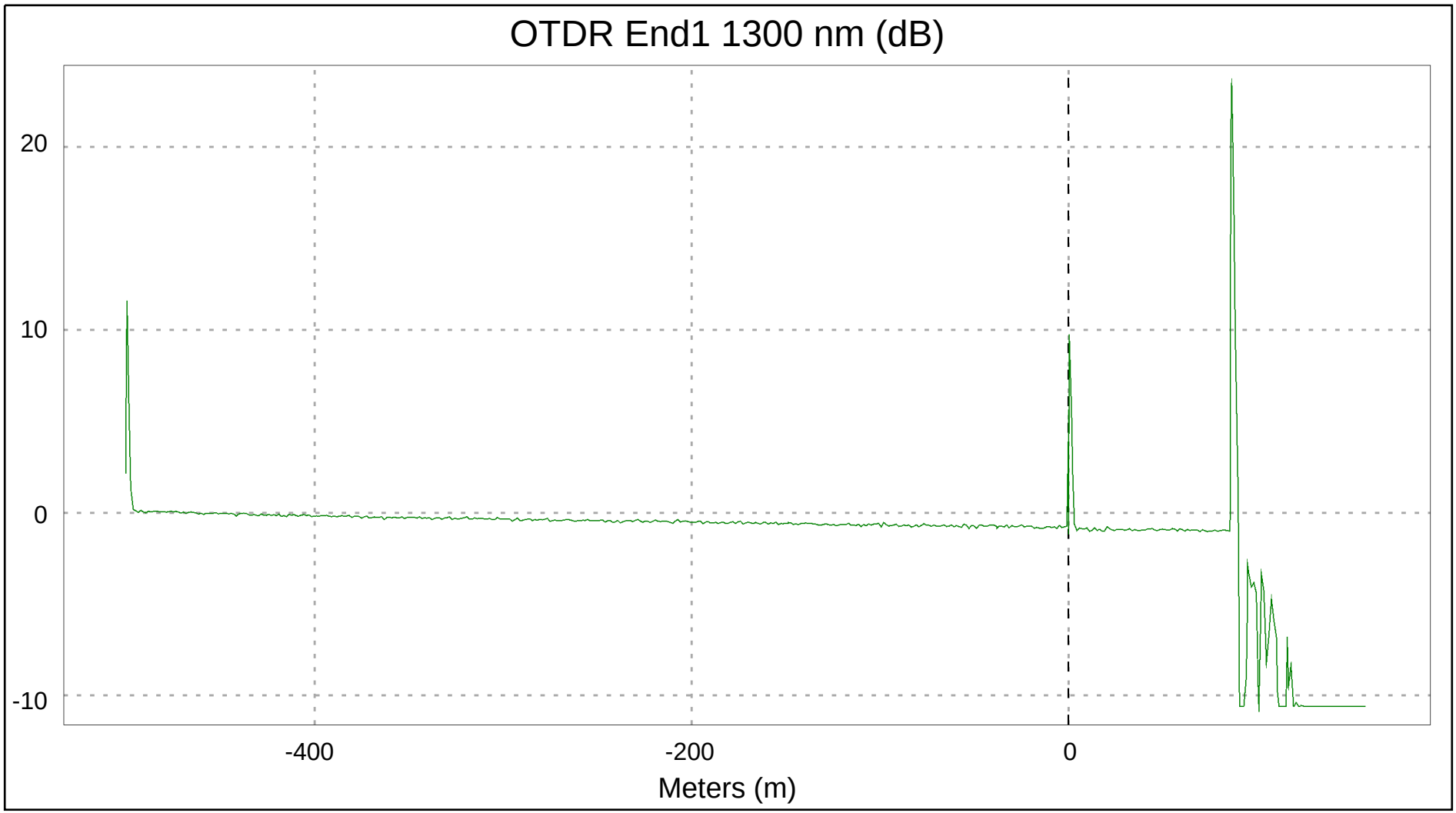
Cable ID: 015

Test Summary: PASS

Date / Time: 31-01-2025 09:32:00
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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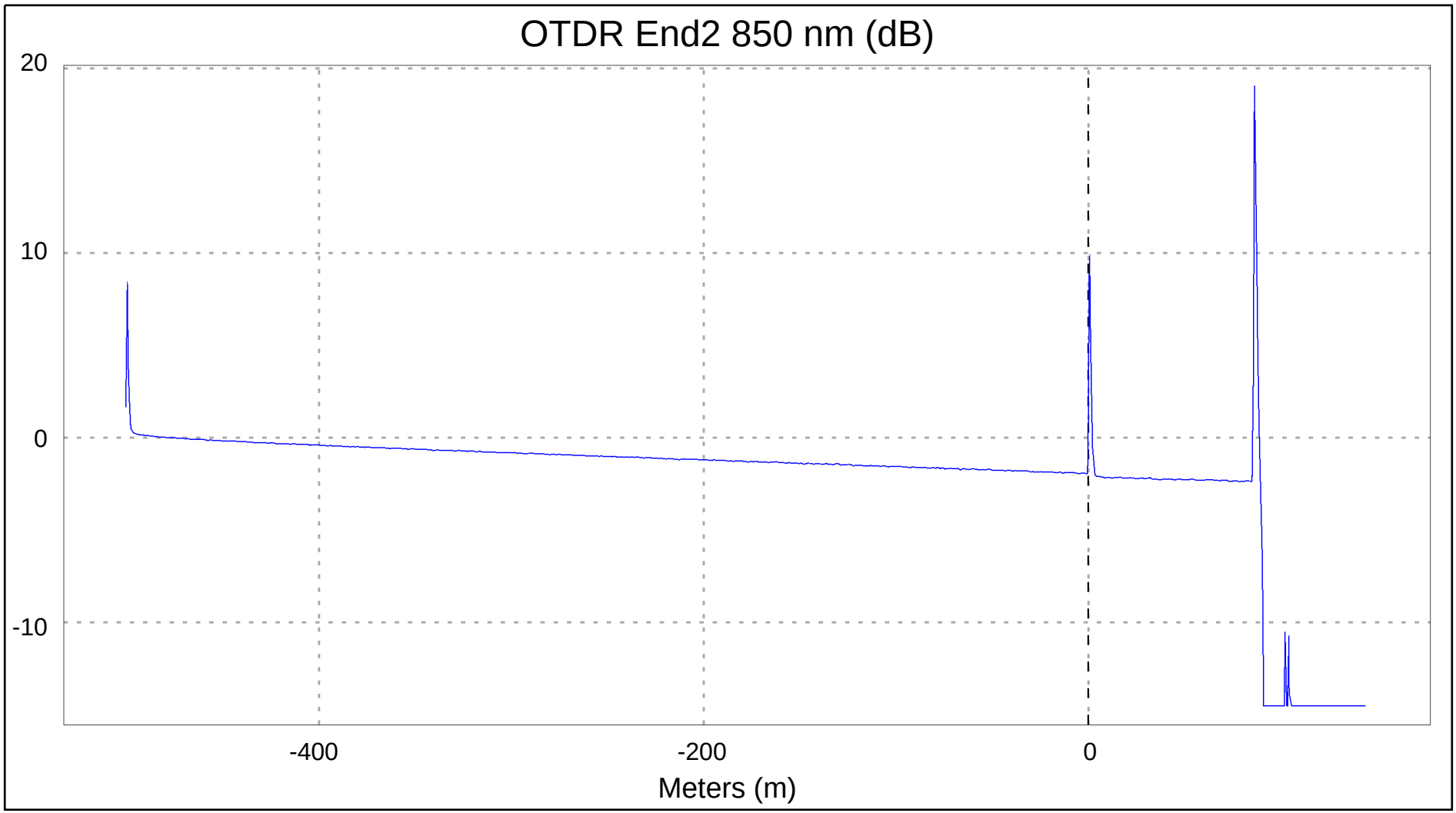
Cable ID: 015

Date / Time: 31-01-2025 09:32:00
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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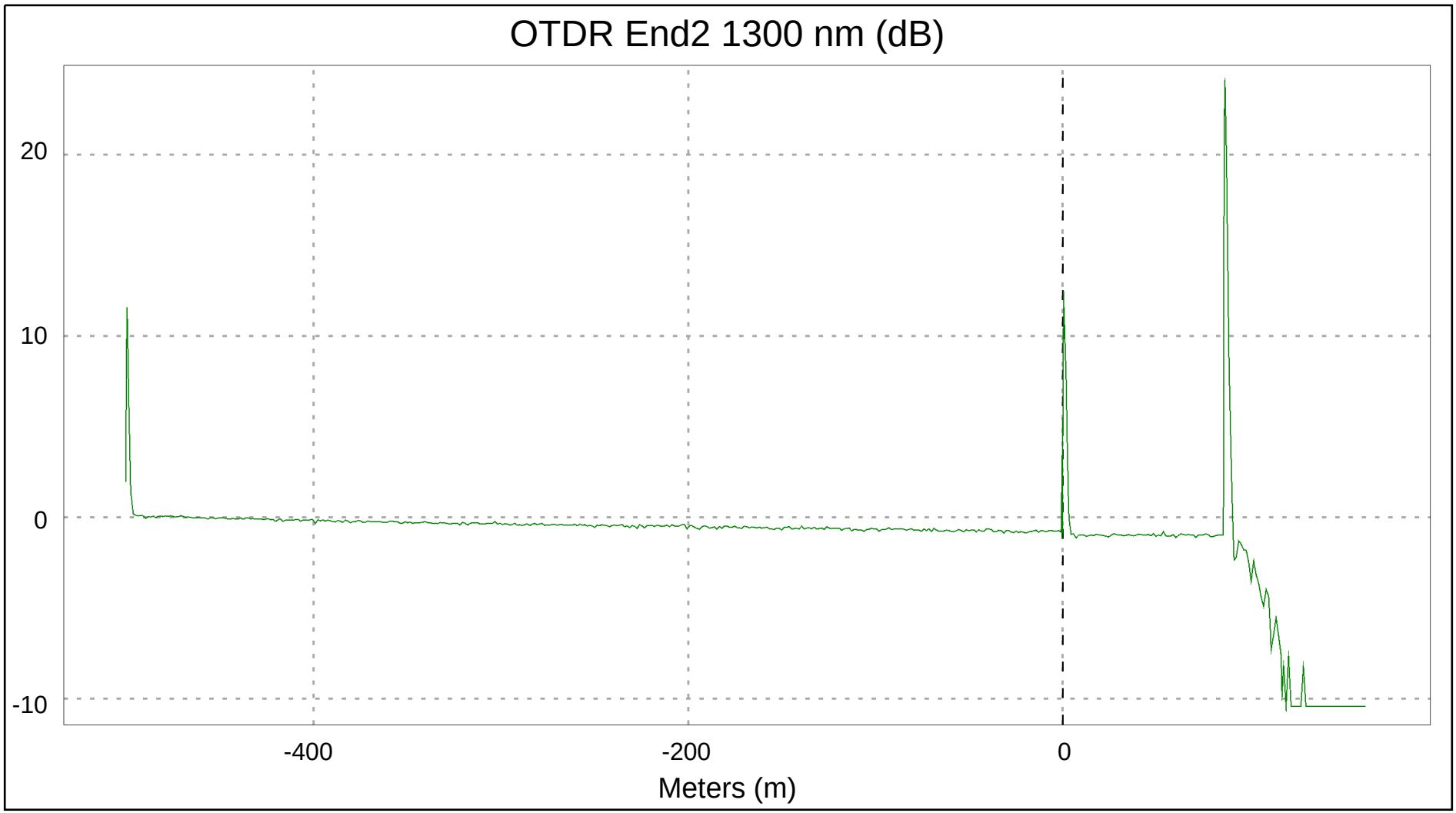
Cable ID: 015

Test Summary: PASS

Date / Time: 31-01-2025 09:32:00
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



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Cable ID: 016

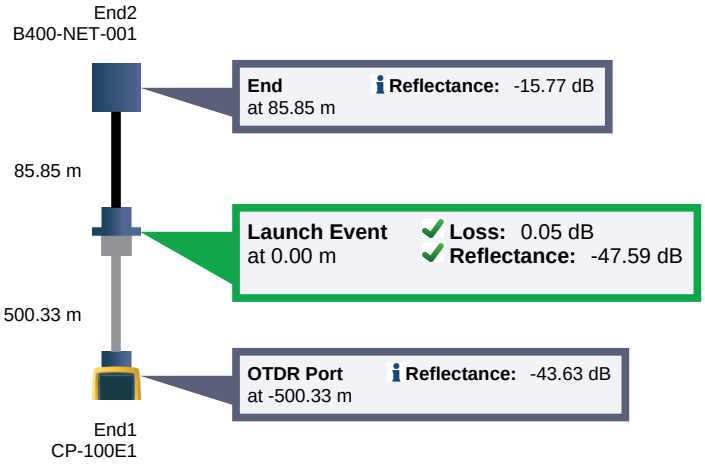
Date / Time: 31-01-2025 09:33:10
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.85 m
Overall Loss: 0.33 dB

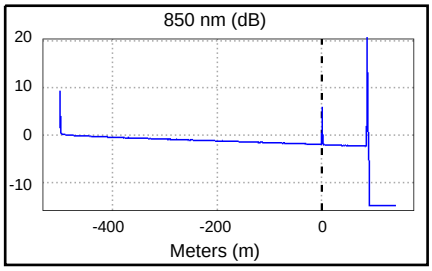


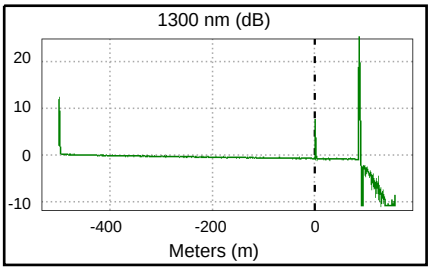
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:54:54
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	658 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	5 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.85			
Overall Loss (dB)		0.33		0.10	
ORL (dB)		38.53		45.13	
Events					
85.85 m End					
Reflectance (dB)		-16.08		-15.77	
Attn Coeff (dB/km)		3.28		0.87	

Cable ID: 016

Date / Time: 31-01-2025 09:33:10
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

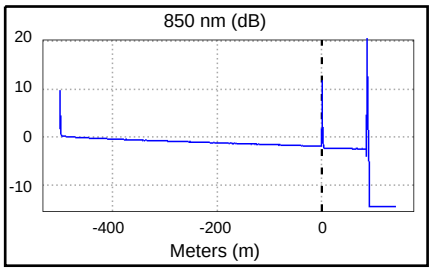
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.05	0.75	0.02	0.75
Reflectance (dB)		-47.59	-35.00	-49.44	-35.00
Attn Coeff (dB/km)		3.95		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-44.57		-43.63	

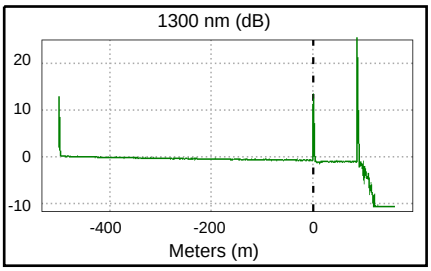
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:33:10
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	662 m
Resolution (Auto)	0.03 m	0.06 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.88			
Overall Loss (dB)		0.52		0.27	
ORL (dB)		34.60		37.98	
Events					
85.88 m End					
Reflectance (dB)		-15.90		-16.91	
Attn Coeff (dB/km)		2.37		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.32	0.75	0.18	0.75
Reflectance (dB)		-35.03	-35.00	-38.01	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.06		-43.93	

ROSETTI MARINO

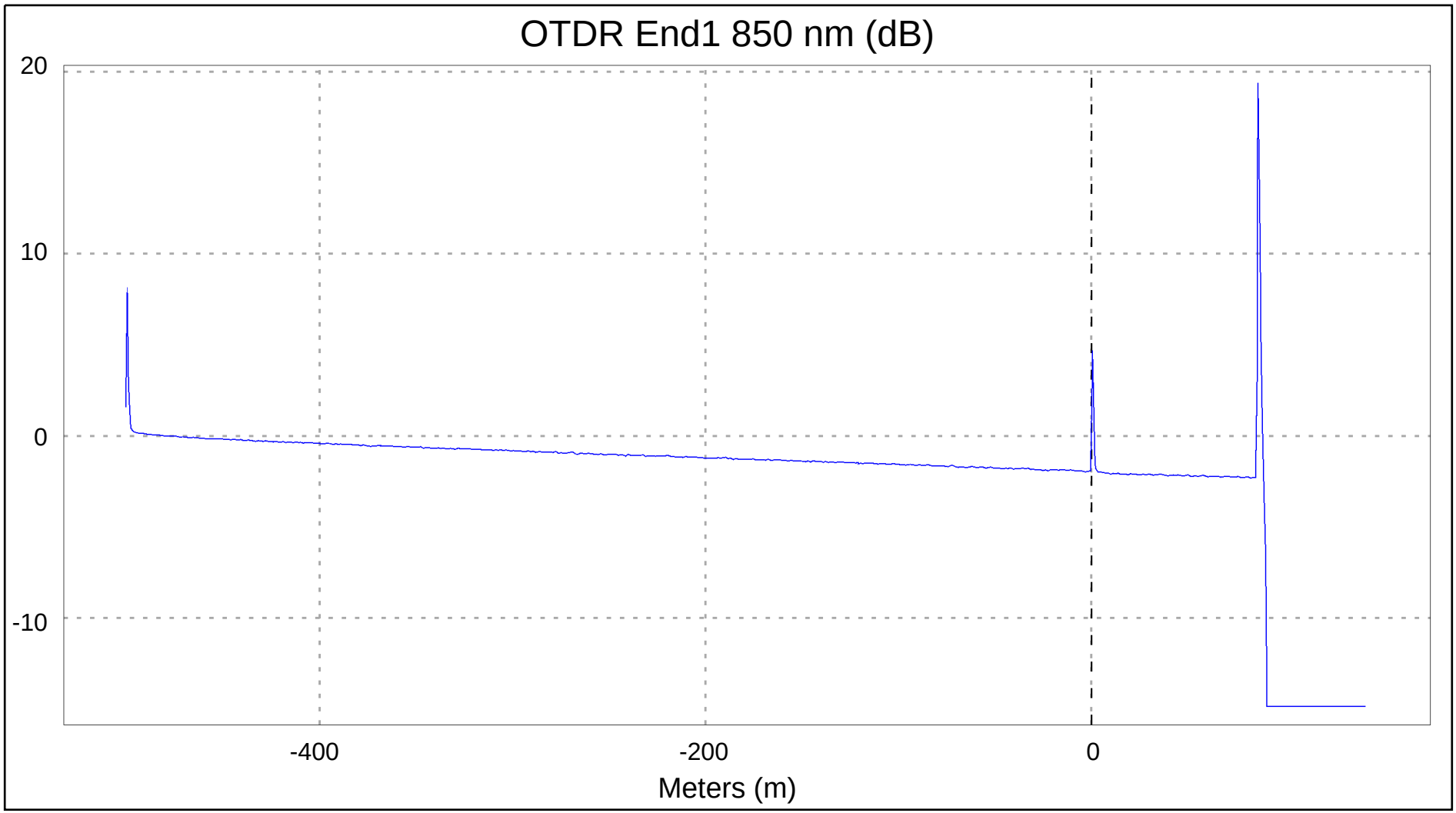
Cable ID: 016

Test Summary: PASS

Date / Time: 31-01-2025 09:33:10
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

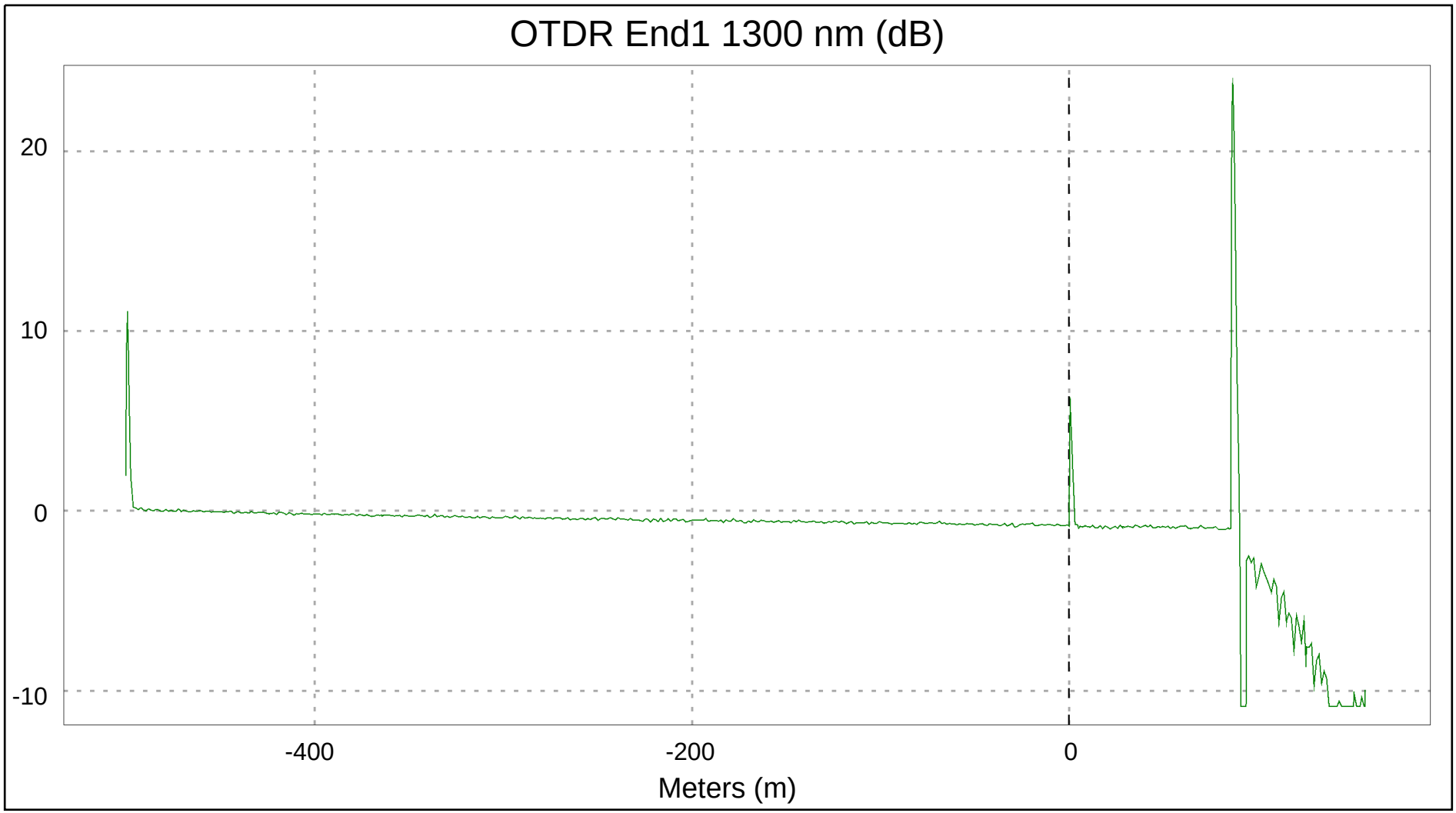
Cable ID: 016

Test Summary: PASS

Date / Time: 31-01-2025 09:33:10
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

ROSETTI MARINO

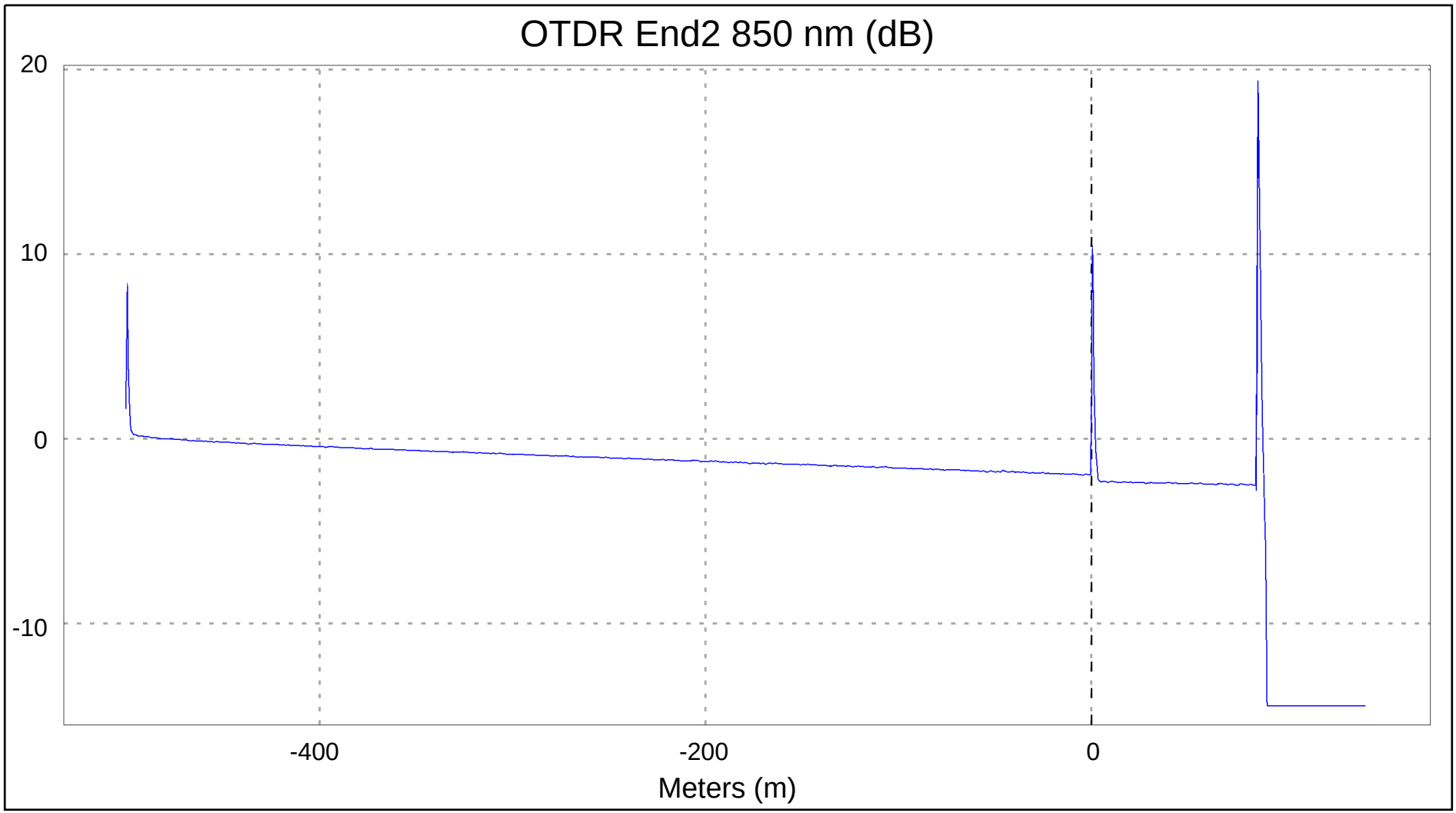
Cable ID: 016

Date / Time: 31-01-2025 09:33:10
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

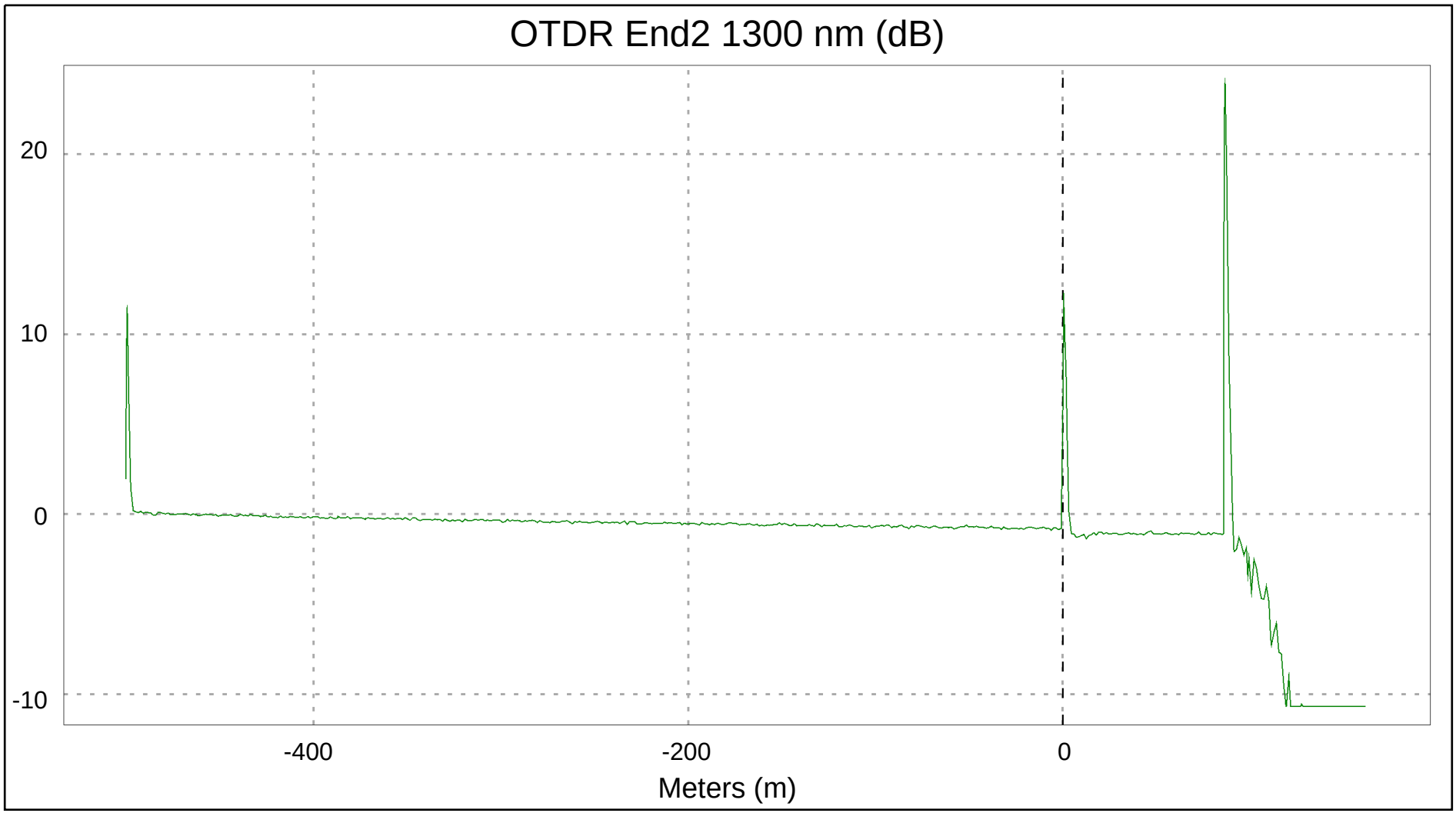
Cable ID: 016

Test Summary: PASS

Date / Time: 31-01-2025 09:33:10
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 017

Date / Time: 31-01-2025 09:38:19
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

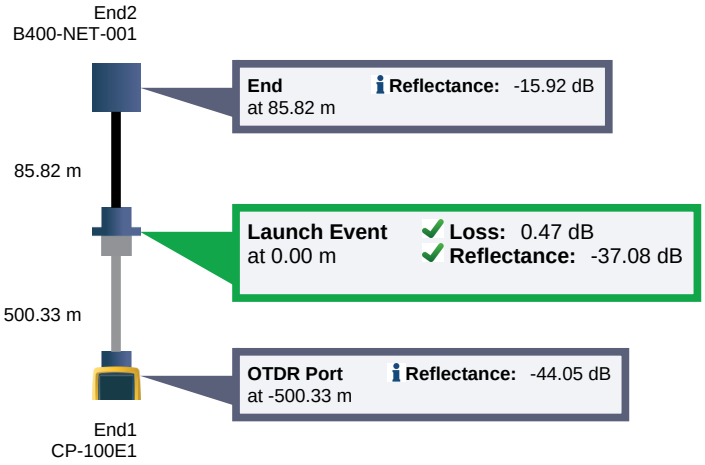
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.82 m
Overall Loss: 0.64 dB

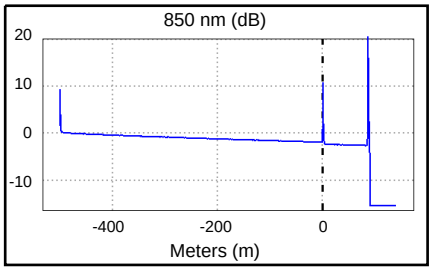


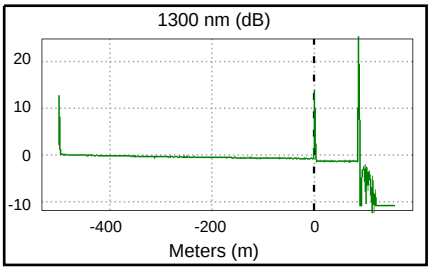
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:52:23
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	641 m	659 m
Resolution (Auto)	0.03 m	0.06 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.82			
Overall Loss (dB)		0.64		0.53	
ORL (dB)		36.03		38.98	
Events					
85.82 m End					
Reflectance (dB)		-15.92		-16.47	
Attn Coeff (dB/km)		3.32		0.67	

Cable ID: 017

Date / Time: 31-01-2025 09:38:19
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

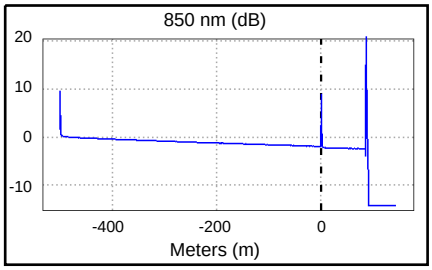
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.35	0.75	0.47	0.75
Reflectance (dB)		-37.08	-35.00	-39.17	-35.00
Attn Coeff (dB/km)		3.95		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-44.70		-44.05	

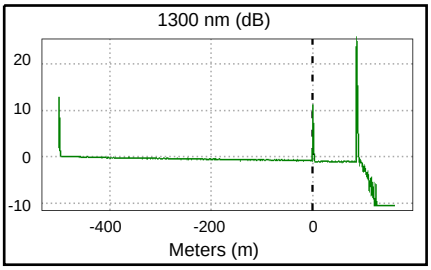
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:38:19
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	663 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.85			
Overall Loss (dB)		0.44		0.18	
ORL (dB)		37.30		41.81	
Events					
85.85 m End					
Reflectance (dB)		-15.64		-16.34	
Attn Coeff (dB/km)		2.70		0.30	
0.00 m Launch Event	PASS				
Loss (dB)		0.21	0.75	0.16	0.75
Reflectance (dB)		-41.30	-35.00	-42.92	-35.00
Attn Coeff (dB/km)		3.95		1.65	
-500.33 m OTDR Port					
Reflectance (dB)		-44.11		-44.02	

ROSETTI MARINO

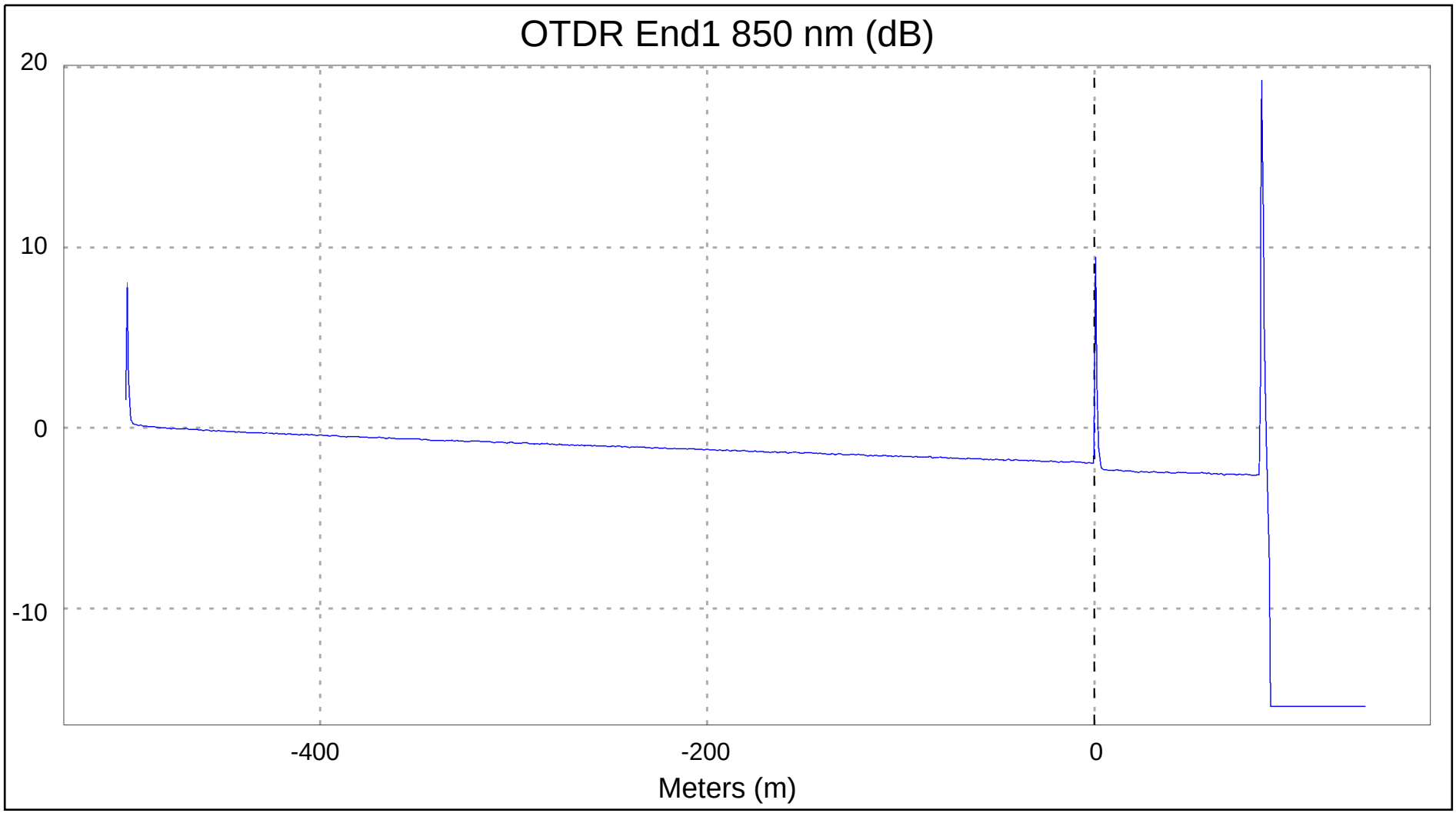
Cable ID: 017

Test Summary: PASS

Date / Time: 31-01-2025 09:38:19
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

FLUKE networks

ROSETTI MARINO

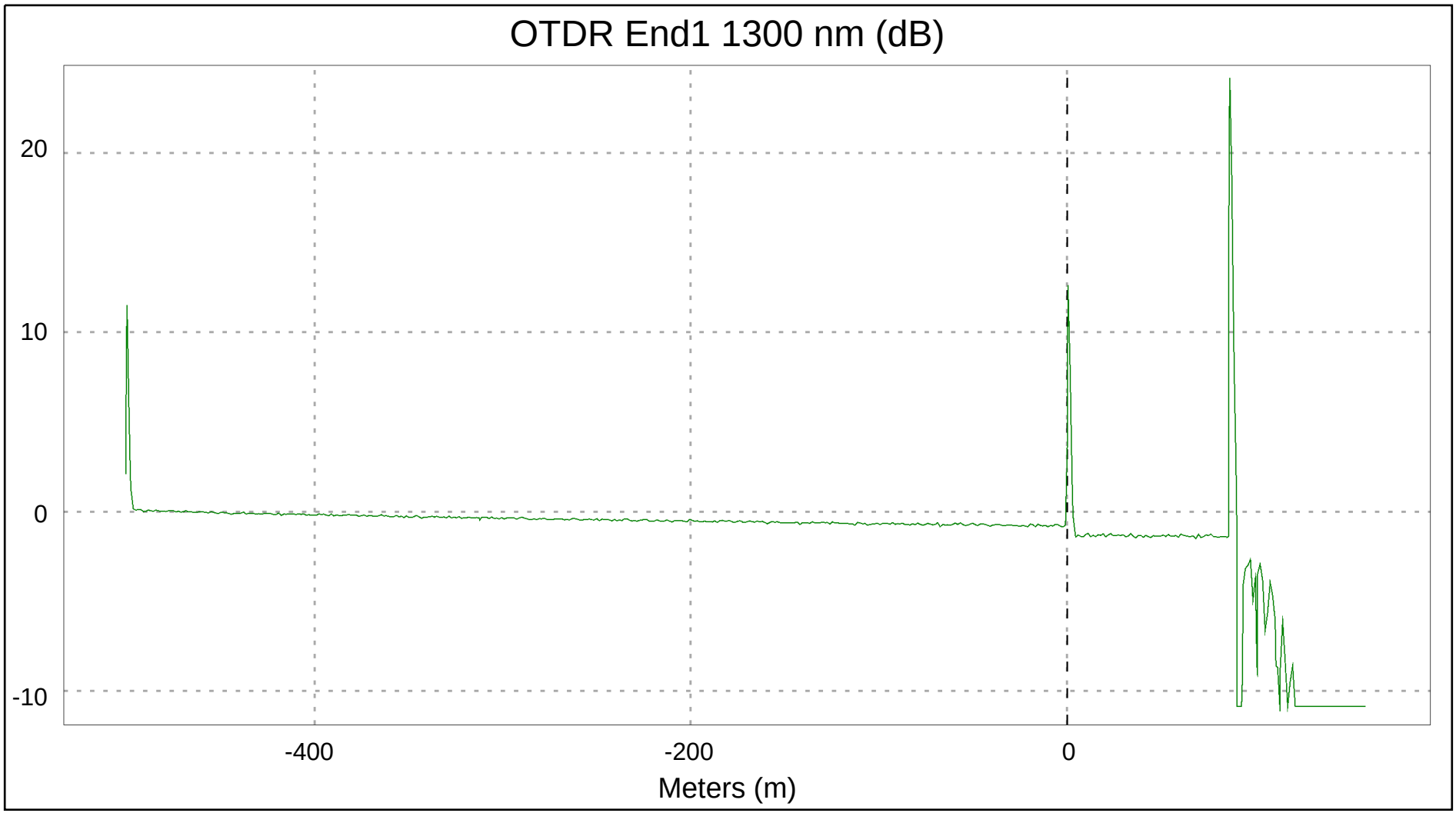
Cable ID: 017

Test Summary: PASS

Date / Time: 31-01-2025 09:38:19
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

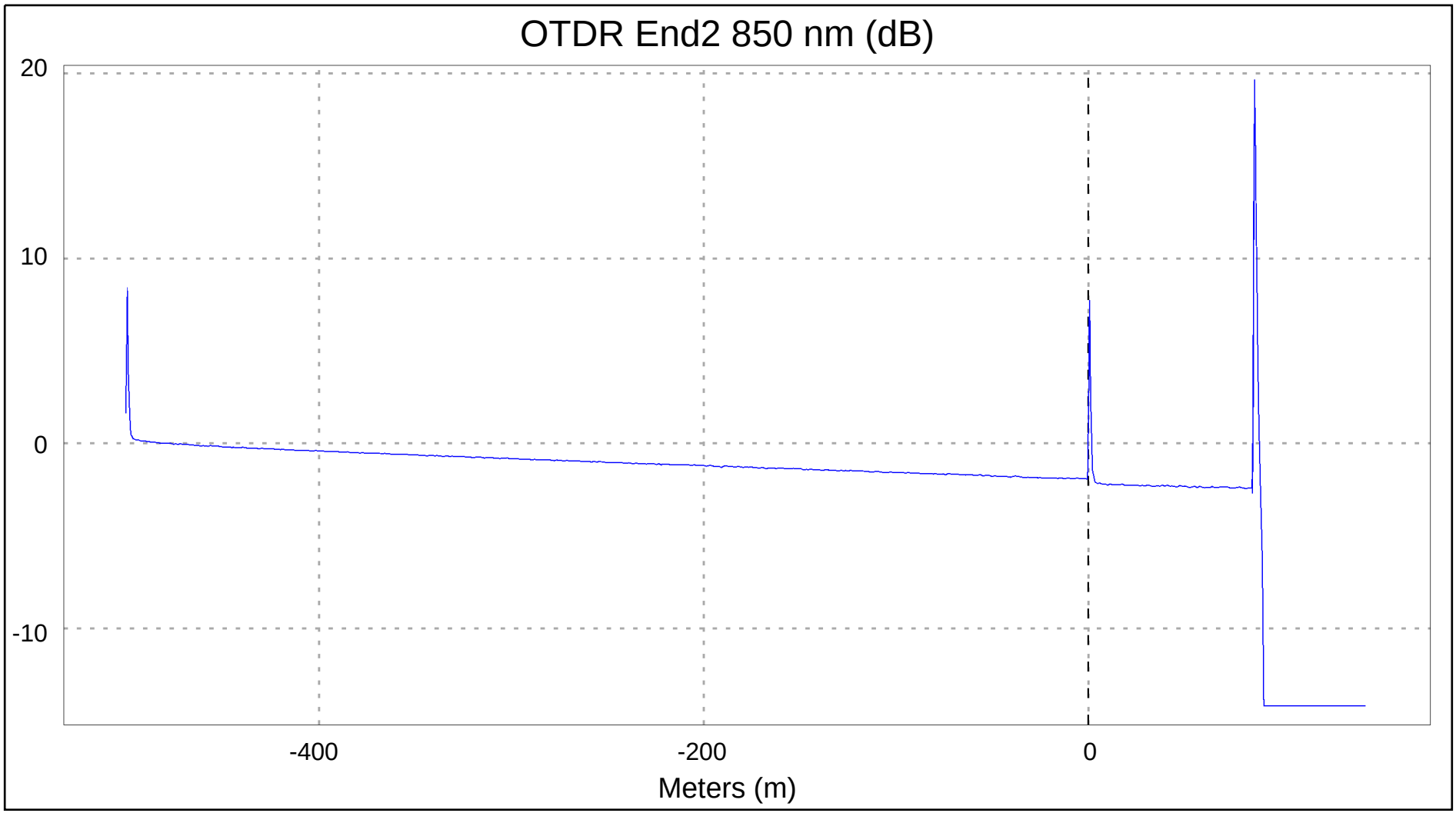
Cable ID: 017

Date / Time: 31-01-2025 09:38:19
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

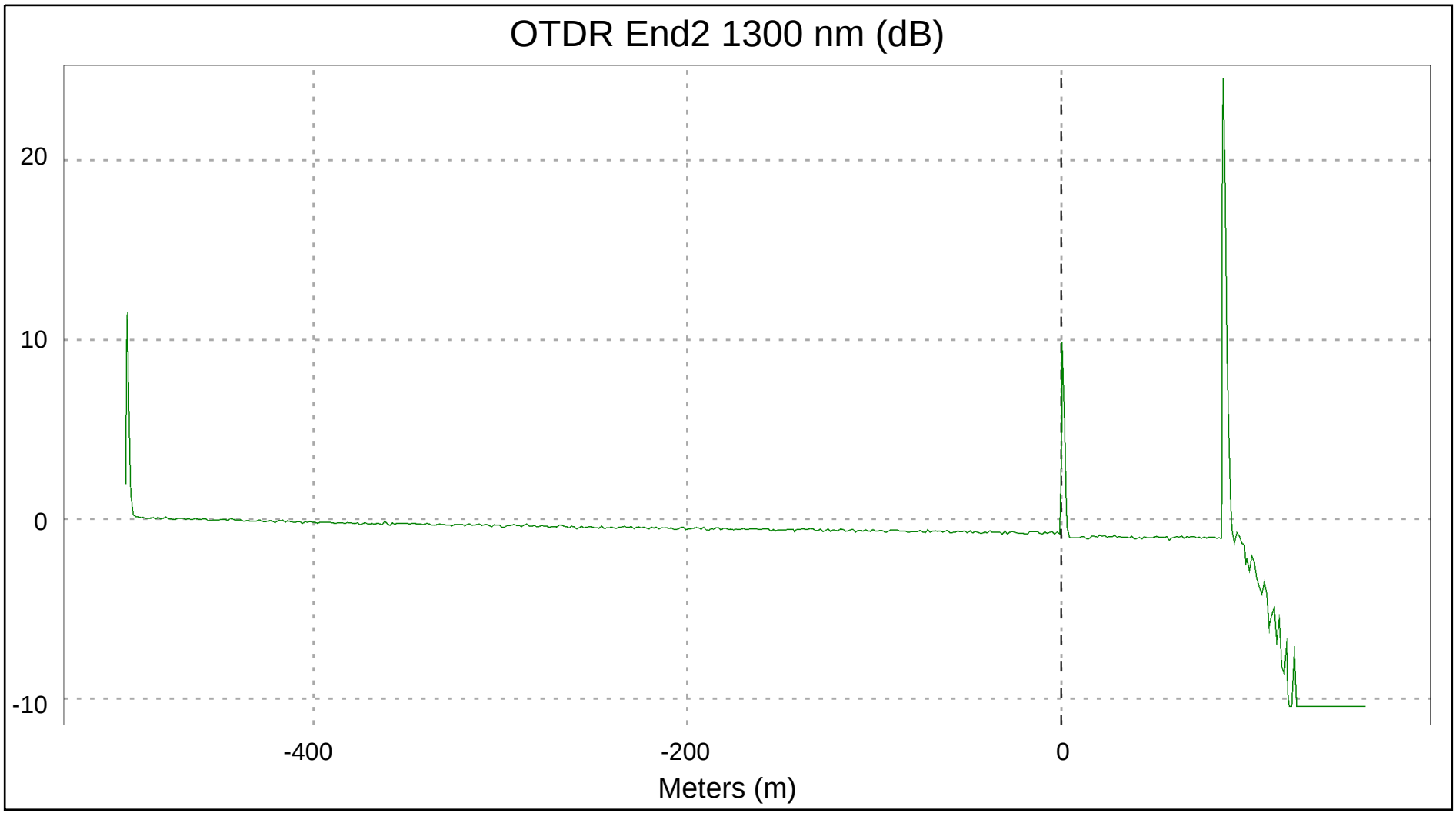
Cable ID: 017

Test Summary: PASS

Date / Time: 31-01-2025 09:38:19
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

Cable ID: 018

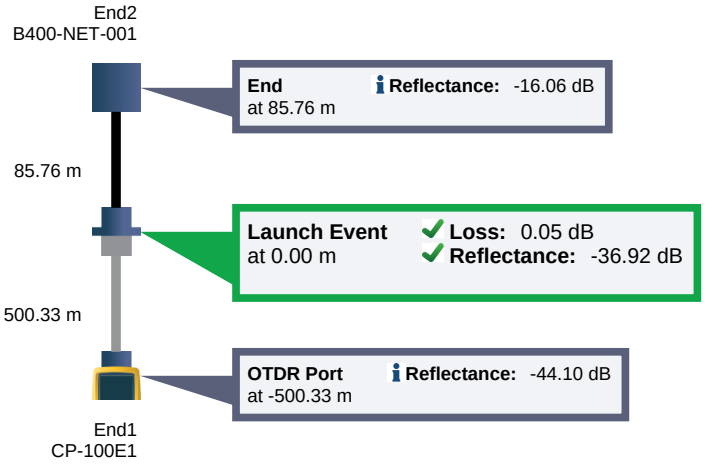
Date / Time: 31-01-2025 09:38:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS
Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.76 m
Overall Loss: 0.31 dB

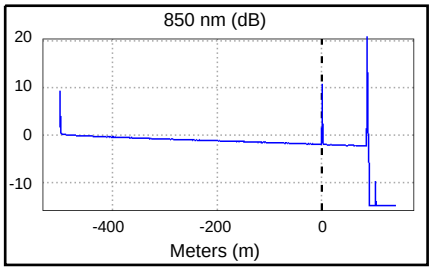


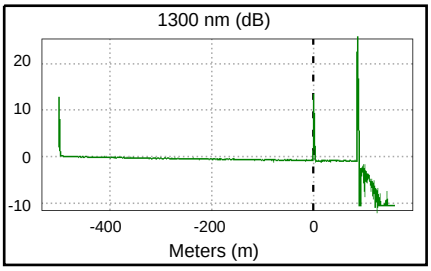
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:52:55
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	661 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.31		0.08	
ORL (dB)		35.63		38.91	
Events					
85.76 m End					
Reflectance (dB)		-16.06		-16.47	
Attn Coeff (dB/km)		3.32		0.30	

Cable ID: 018

Date / Time: 31-01-2025 09:38:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

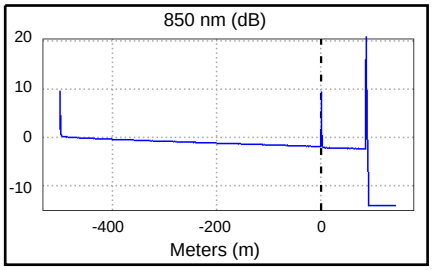
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.03	0.75	0.05	0.75
Reflectance (dB)		-36.92	-35.00	-39.19	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.66		-44.10	

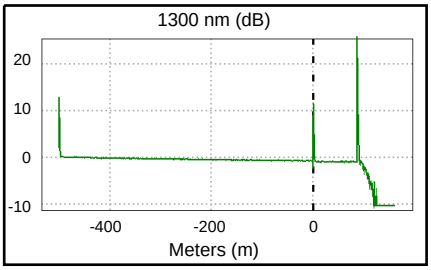
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:38:42
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.82			
Overall Loss (dB)		0.42		0.13	
ORL (dB)		36.94		41.37	
Events					
85.82 m End					
Reflectance (dB)		-15.74		-16.43	
Attn Coeff (dB/km)		2.87		0.32	
0.00 m Launch Event	PASS				
Loss (dB)		0.18	0.75	0.10	0.75
Reflectance (dB)		-40.48	-35.00	-42.36	-35.00
Attn Coeff (dB/km)		3.95		1.66	
-500.33 m OTDR Port					
Reflectance (dB)		-44.10		-43.98	

ROSETTI MARINO

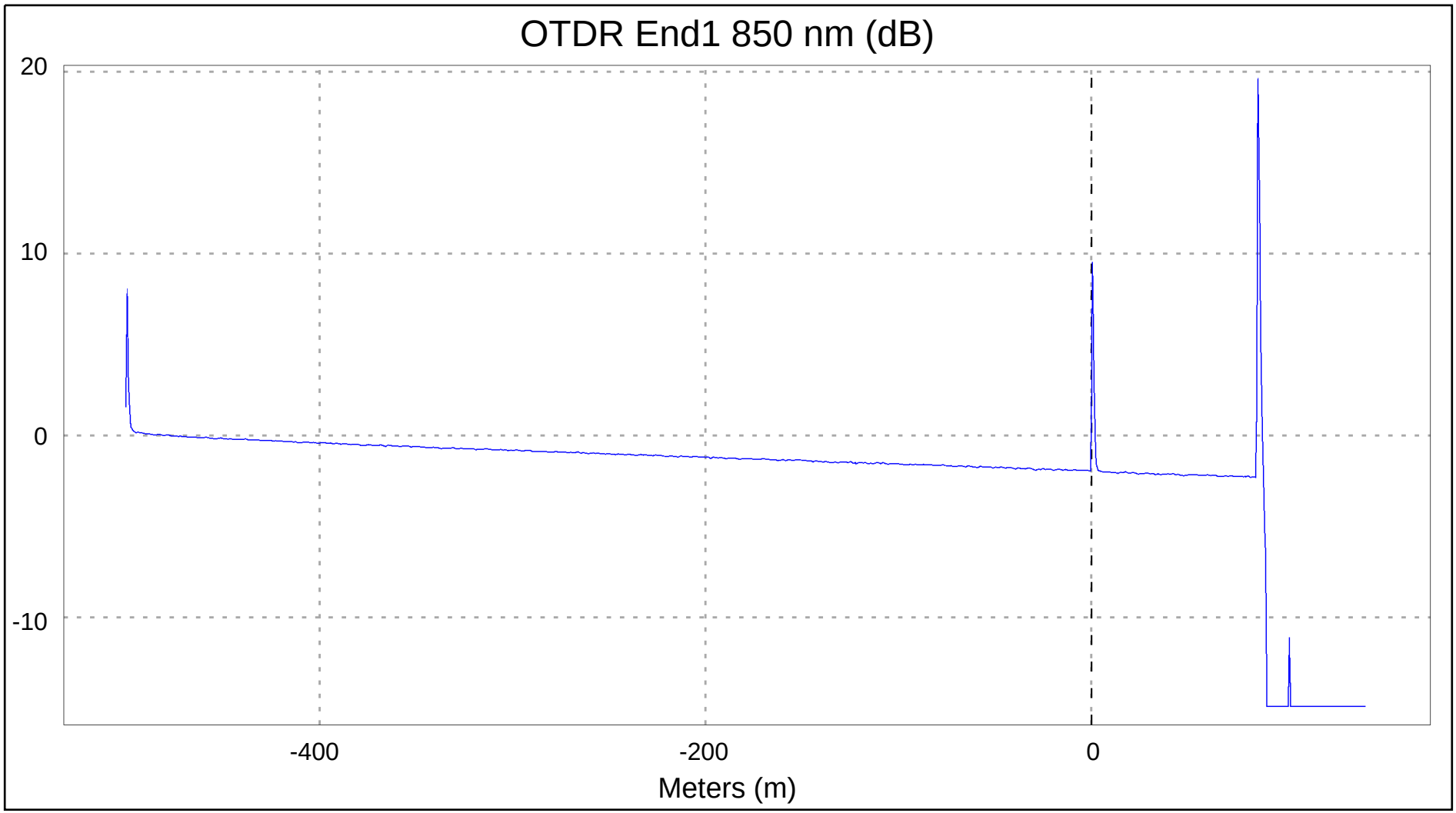
Cable ID: 018

Date / Time: 31-01-2025 09:38:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

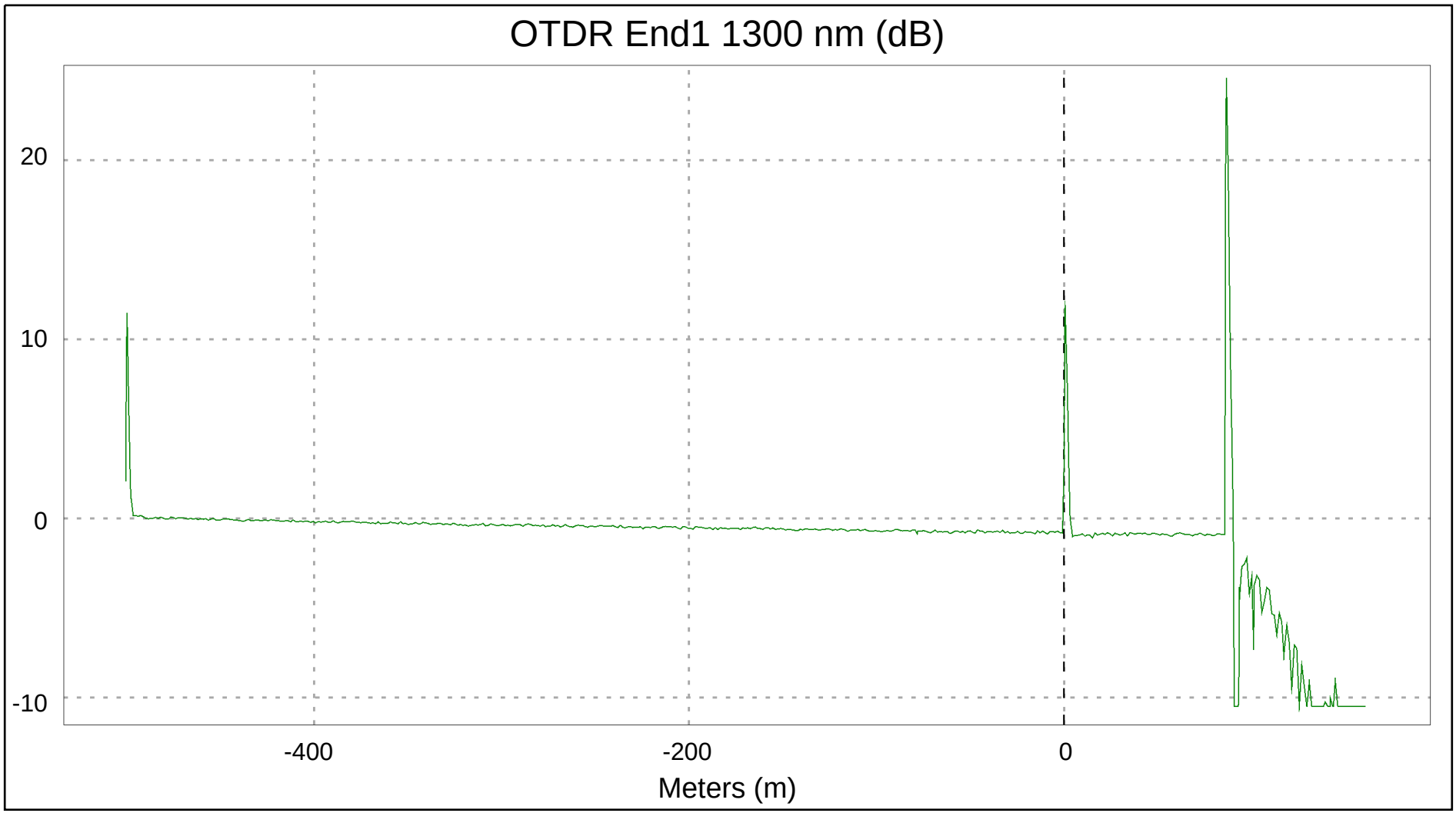
Cable ID: 018

Test Summary: PASS

Date / Time: 31-01-2025 09:38:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

ROSETTI MARINO

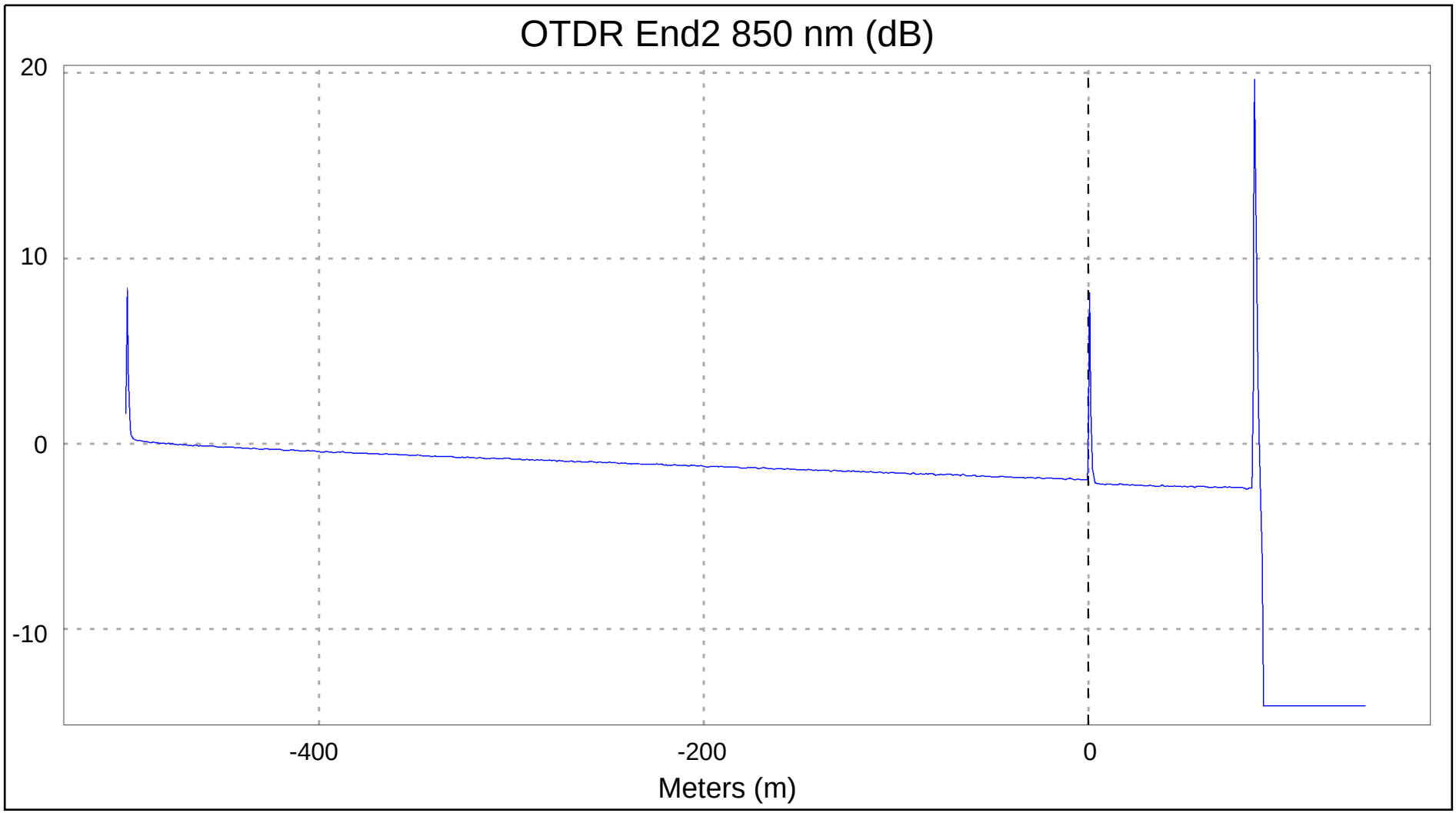
Cable ID: 018

Test Summary: PASS

Date / Time: 31-01-2025 09:38:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

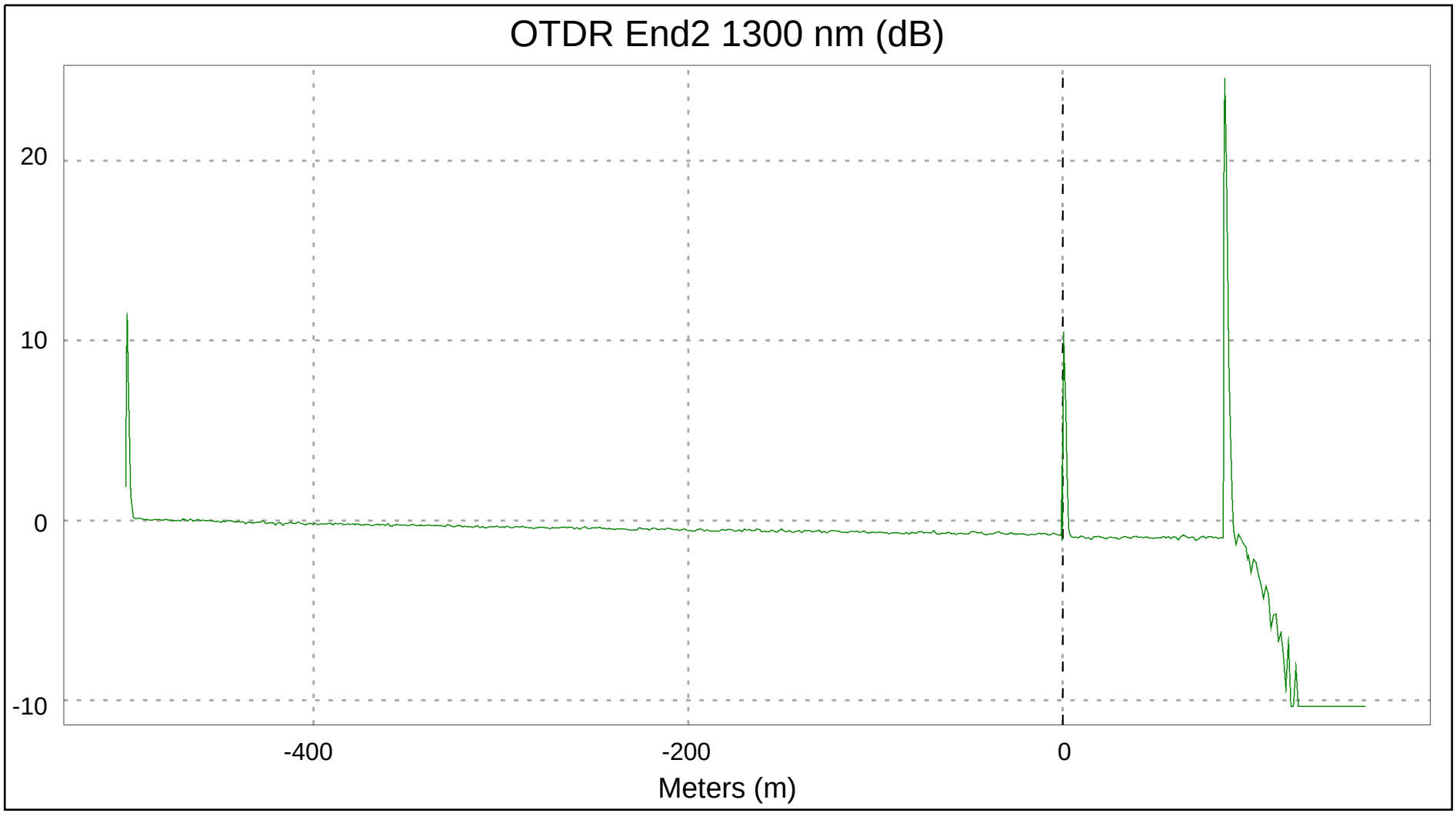
Cable ID: 018

Test Summary: PASS

Date / Time: 31-01-2025 09:38:42
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 019

Date / Time: 31-01-2025 09:39:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

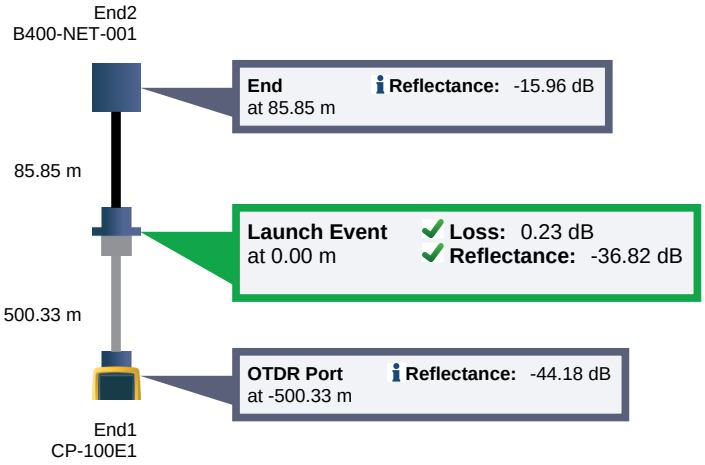
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.85 m
Overall Loss: 0.45 dB

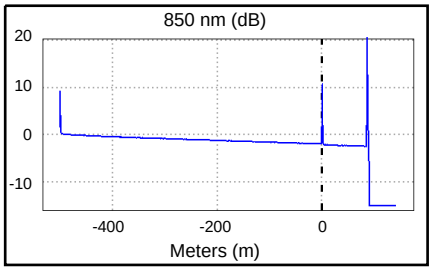


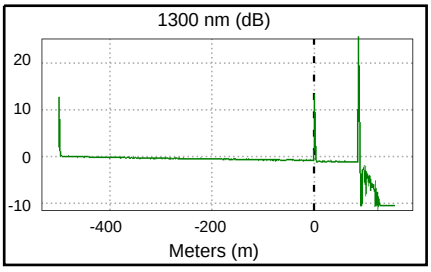
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:53:14
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	659 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.85			
Overall Loss (dB)		0.45		0.27	
ORL (dB)		35.69		39.20	
Events					
85.85 m End					
Reflectance (dB)		-15.96		-16.42	
Attn Coeff (dB/km)		3.28		0.53	

Cable ID: 019

Date / Time: 31-01-2025 09:39:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

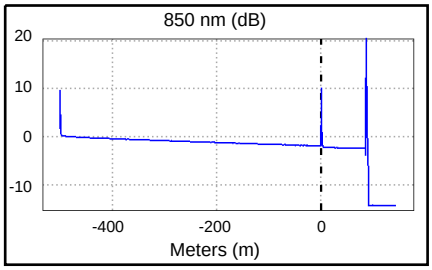
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.16	0.75	0.23	0.75
Reflectance (dB)		-36.82	-35.00	-39.49	-35.00
Attn Coeff (dB/km)		3.95		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.69		-44.18	

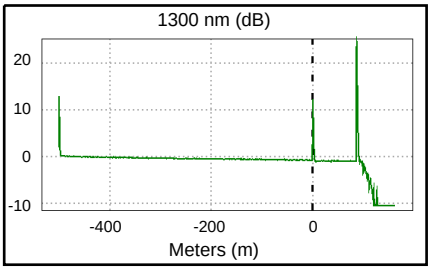
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:39:01
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	663 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.88			
Overall Loss (dB)		0.47		0.13	
ORL (dB)		36.34		40.23	
Events					
85.88 m End					
Reflectance (dB)		-15.73		-16.56	
Attn Coeff (dB/km)		2.73		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.24	0.75	0.05	0.75
Reflectance (dB)		-39.03	-35.00	-40.79	-35.00
Attn Coeff (dB/km)		3.95		1.66	
-500.33 m OTDR Port					
Reflectance (dB)		-44.09		-43.97	

ROSETTI MARINO

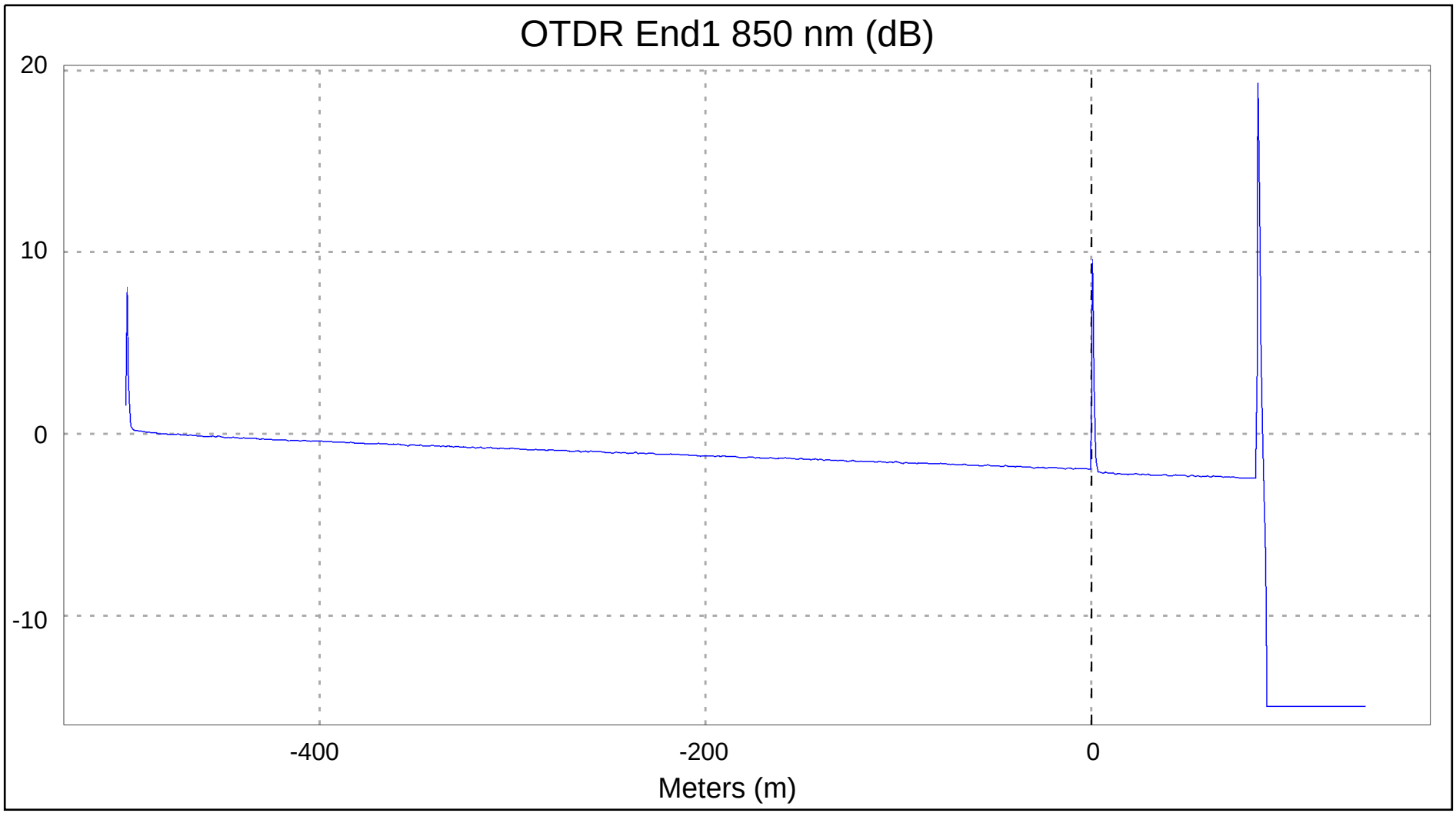
Cable ID: 019

Test Summary: PASS

Date / Time: 31-01-2025 09:39:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

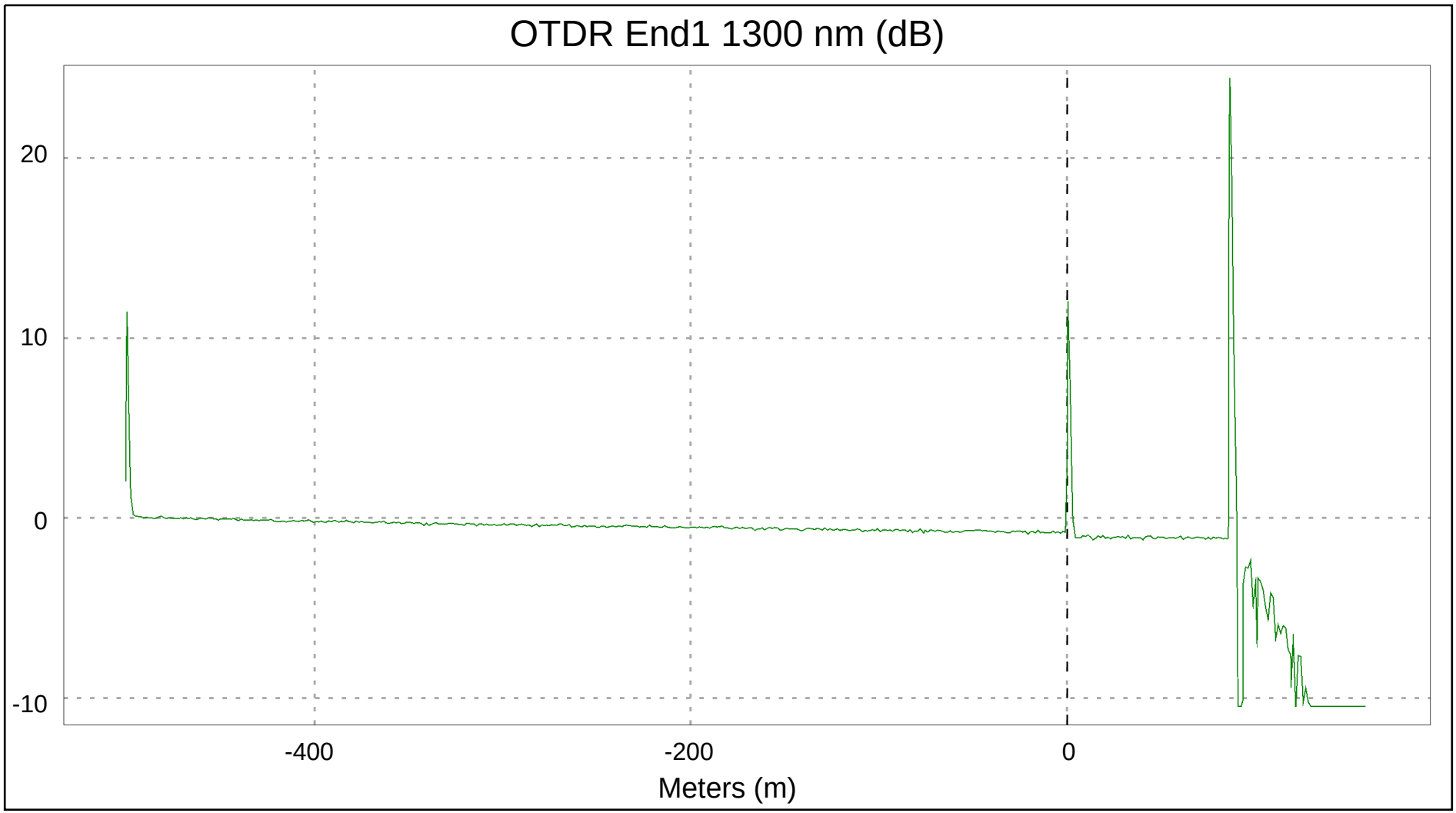
Cable ID: 019

Test Summary: PASS

Date / Time: 31-01-2025 09:39:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

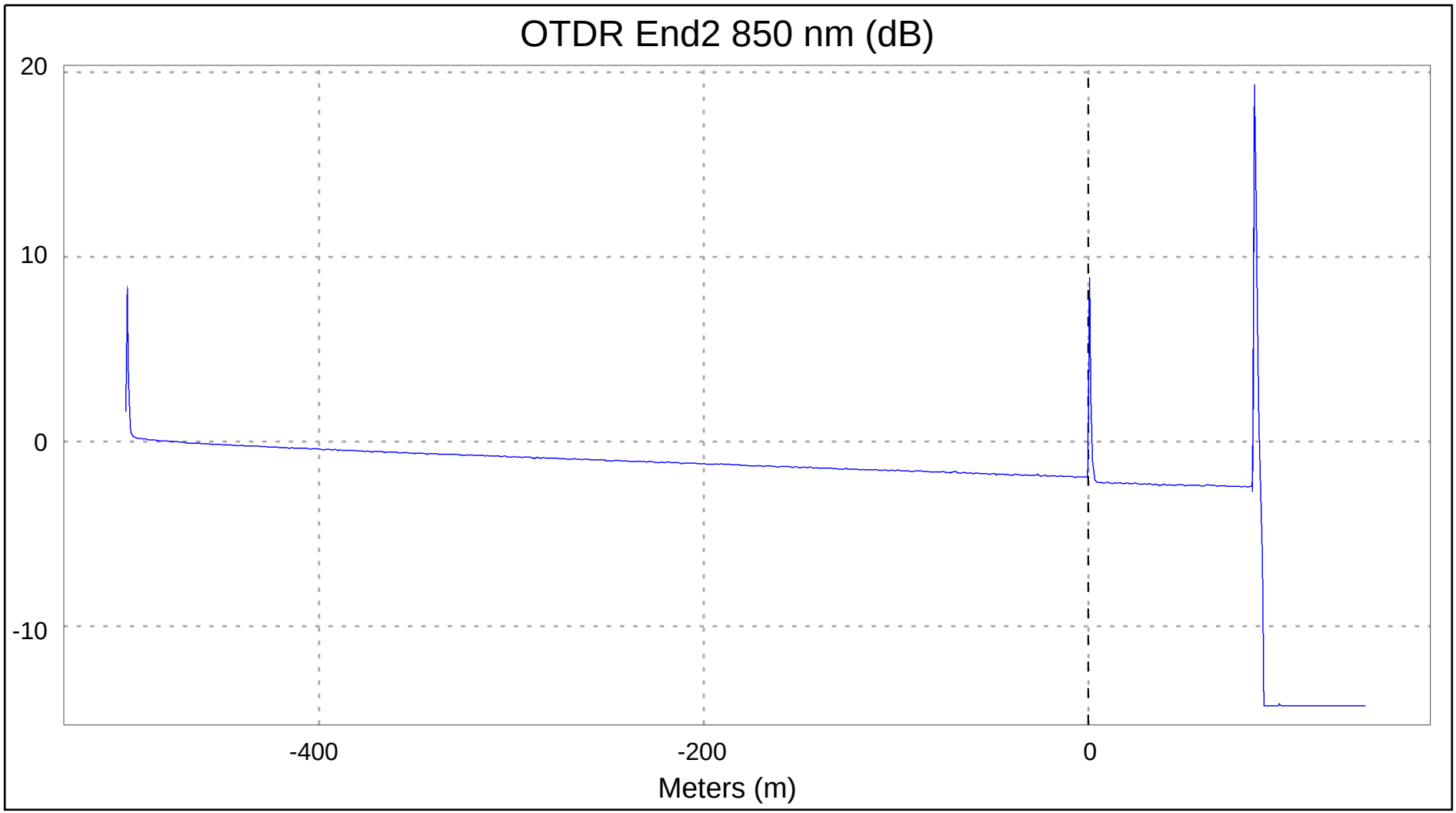
Cable ID: 019

Date / Time: 31-01-2025 09:39:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

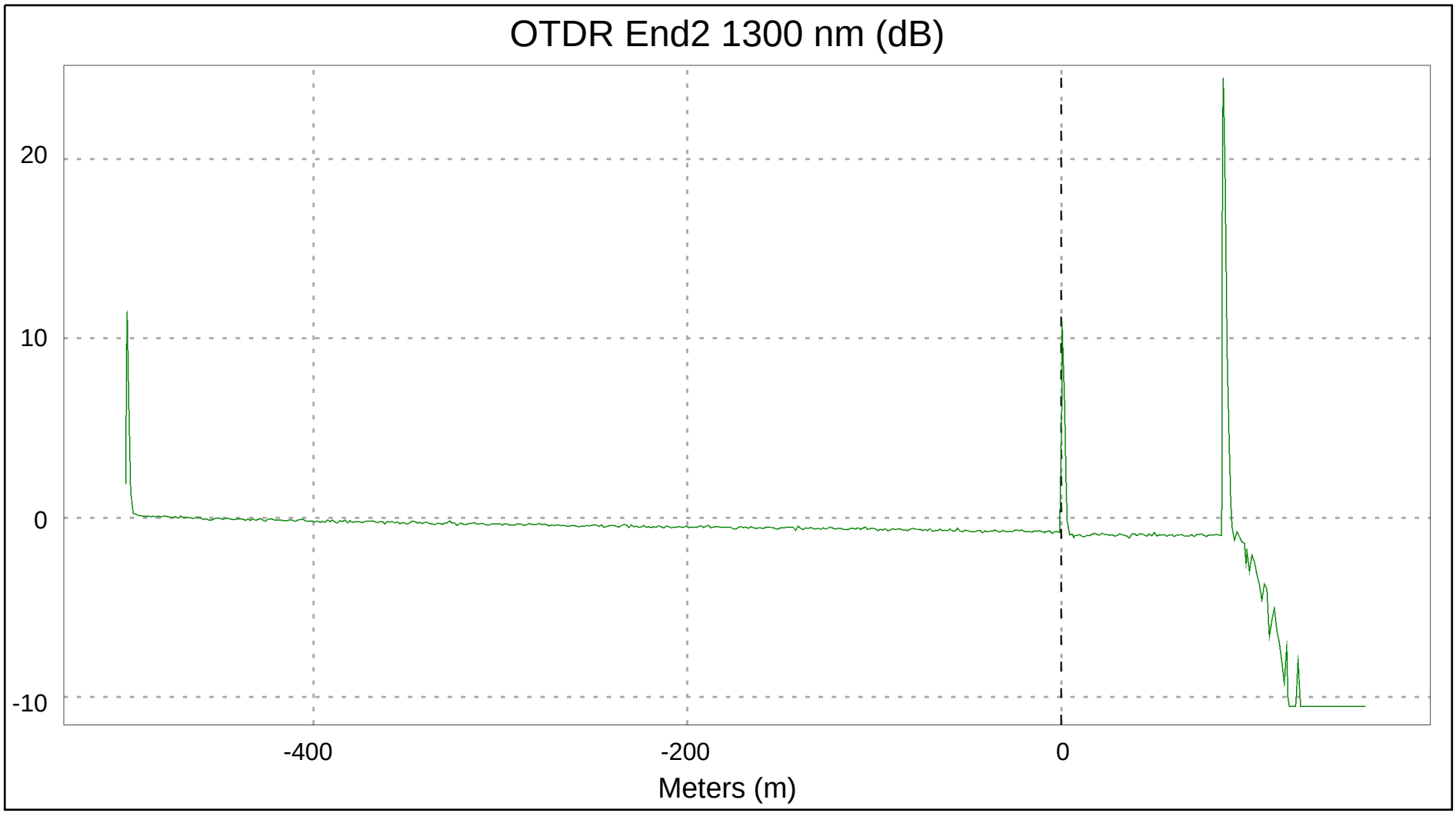
Cable ID: 019

Test Summary: PASS

Date / Time: 31-01-2025 09:39:01
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 020

Date / Time: 31-01-2025 09:39:28
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

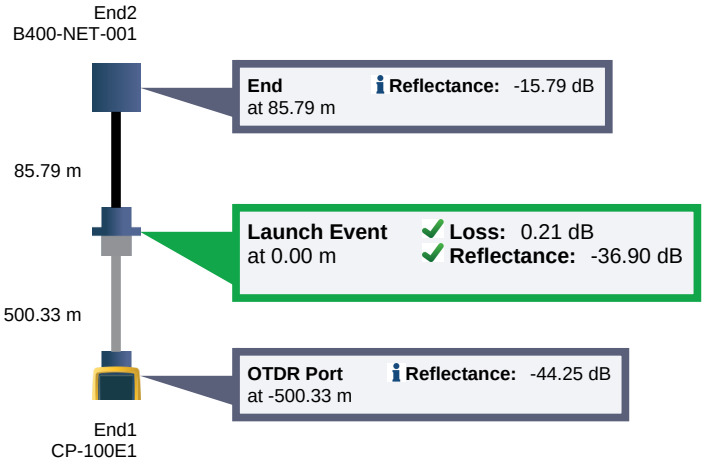
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.79 m
Overall Loss: 0.48 dB

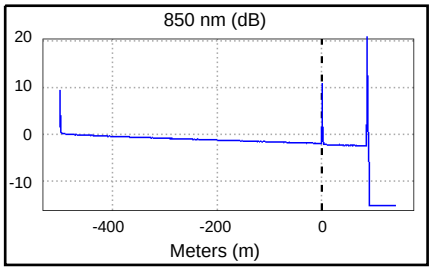


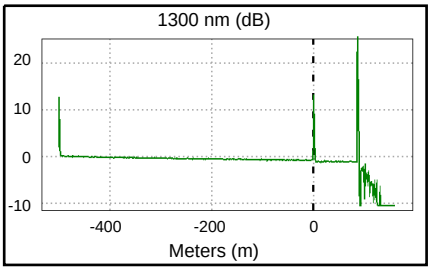
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:53:32
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	661 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.79			
Overall Loss (dB)		0.48		0.28	
ORL (dB)		35.77		39.36	
Events					
85.79 m End					
Reflectance (dB)		-15.79		-16.25	
Attn Coeff (dB/km)		3.36		0.90	

Cable ID: 020

Date / Time: 31-01-2025 09:39:28
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

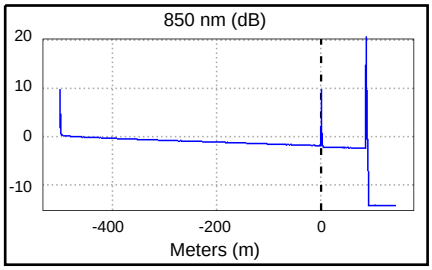
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.19	0.75	0.21	0.75
Reflectance (dB)		-36.90	-35.00	-39.66	-35.00
Attn Coeff (dB/km)		3.94		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-44.70		-44.25	

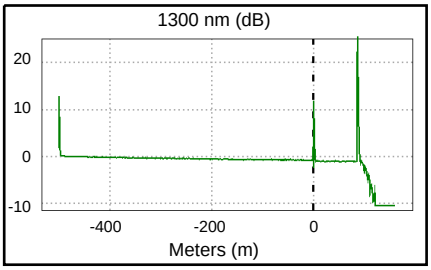
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:39:28
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	661 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.82			
Overall Loss (dB)		0.49		0.19	
ORL (dB)		36.76		40.86	
Events					
85.82 m End					
Reflectance (dB)		-16.09		-17.01	
Attn Coeff (dB/km)		2.63		0.34	
0.00 m Launch Event	PASS				
Loss (dB)		0.26	0.75	0.16	0.75
Reflectance (dB)		-39.87	-35.00	-41.57	-35.00
Attn Coeff (dB/km)		3.95		1.65	
-500.33 m OTDR Port					
Reflectance (dB)		-44.09		-43.99	

ROSETTI MARINO

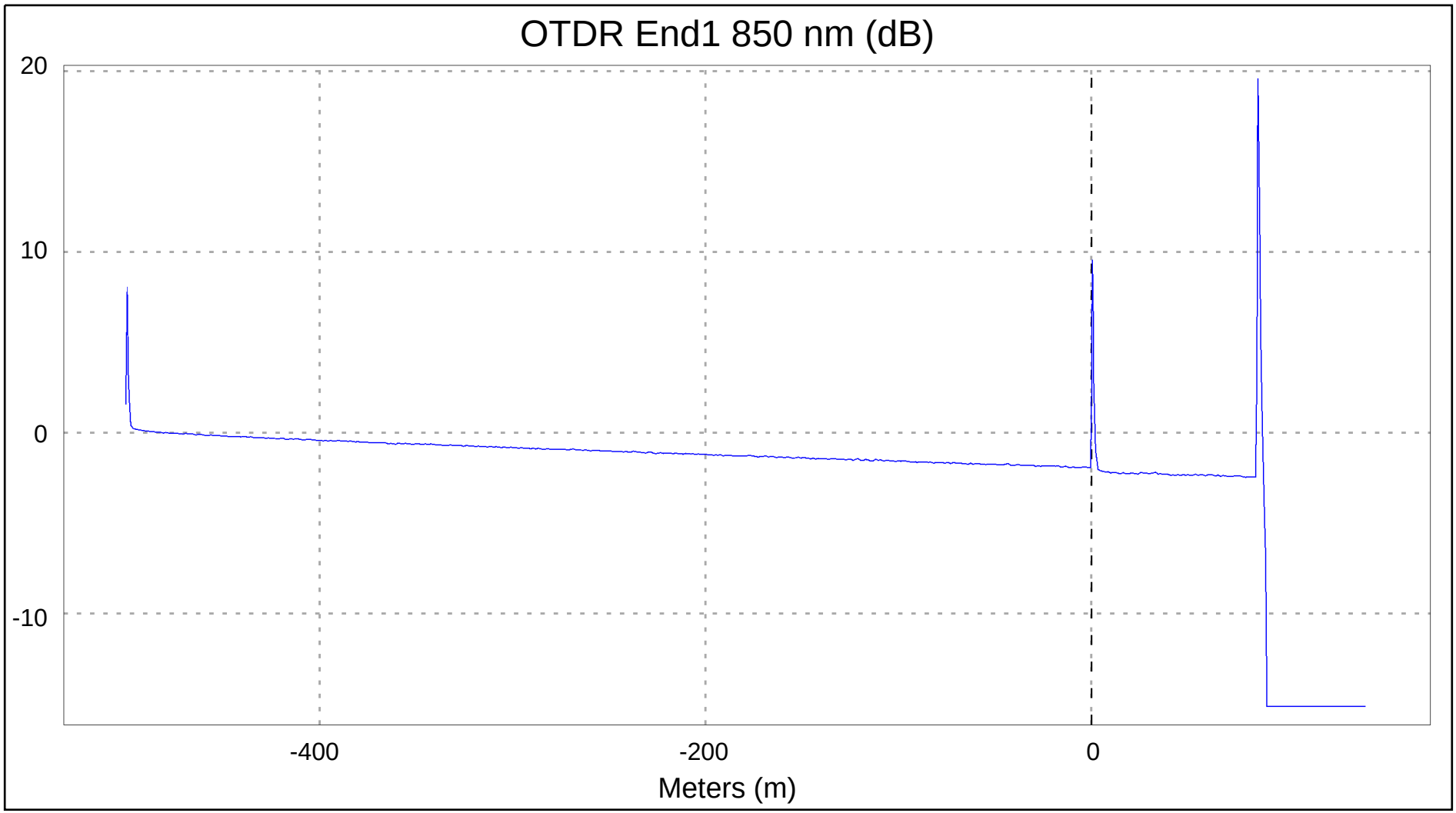
Cable ID: 020

Test Summary: PASS

Date / Time: 31-01-2025 09:39:28
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

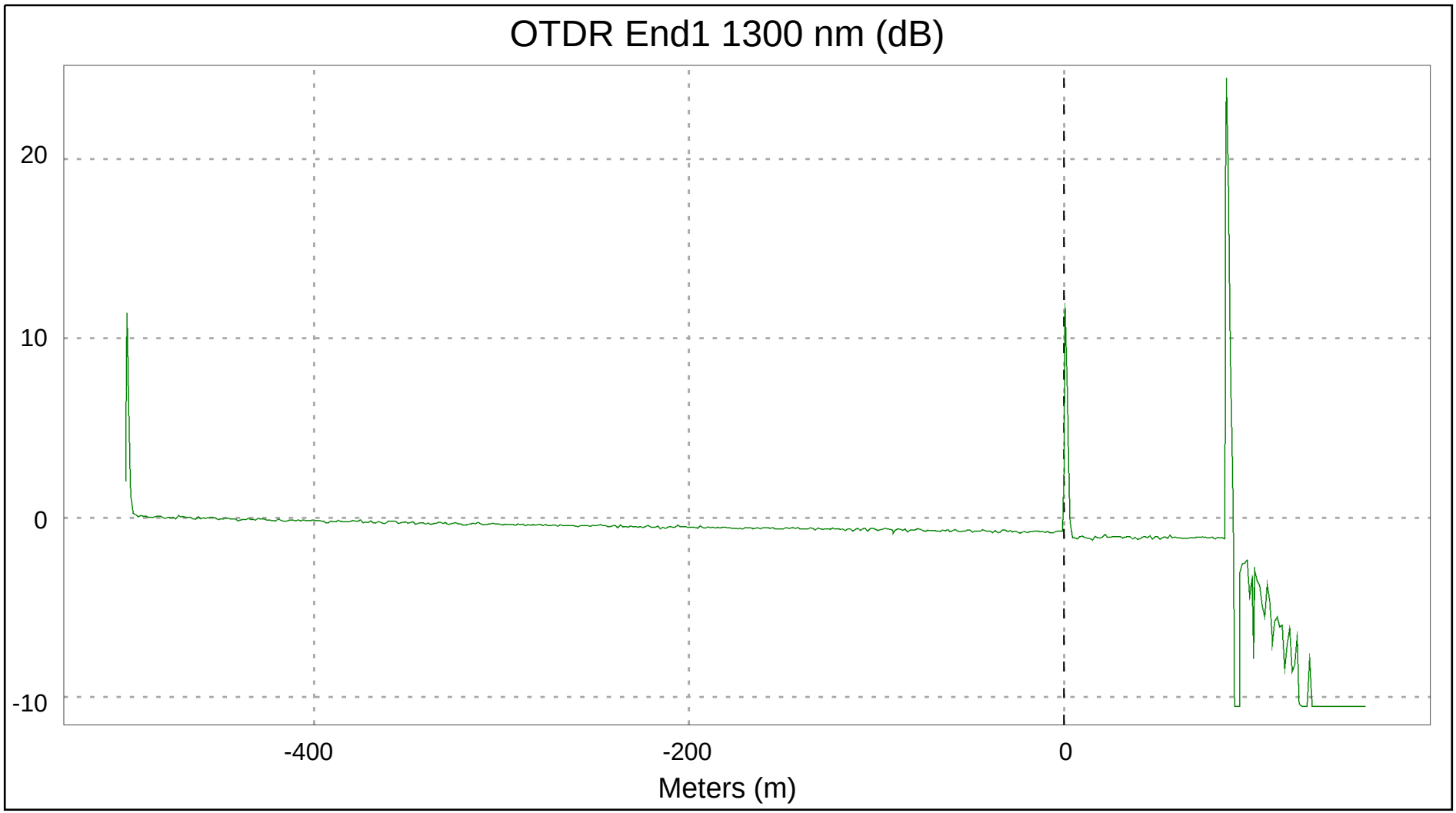
Cable ID: 020

Test Summary: PASS

Date / Time: 31-01-2025 09:39:28
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

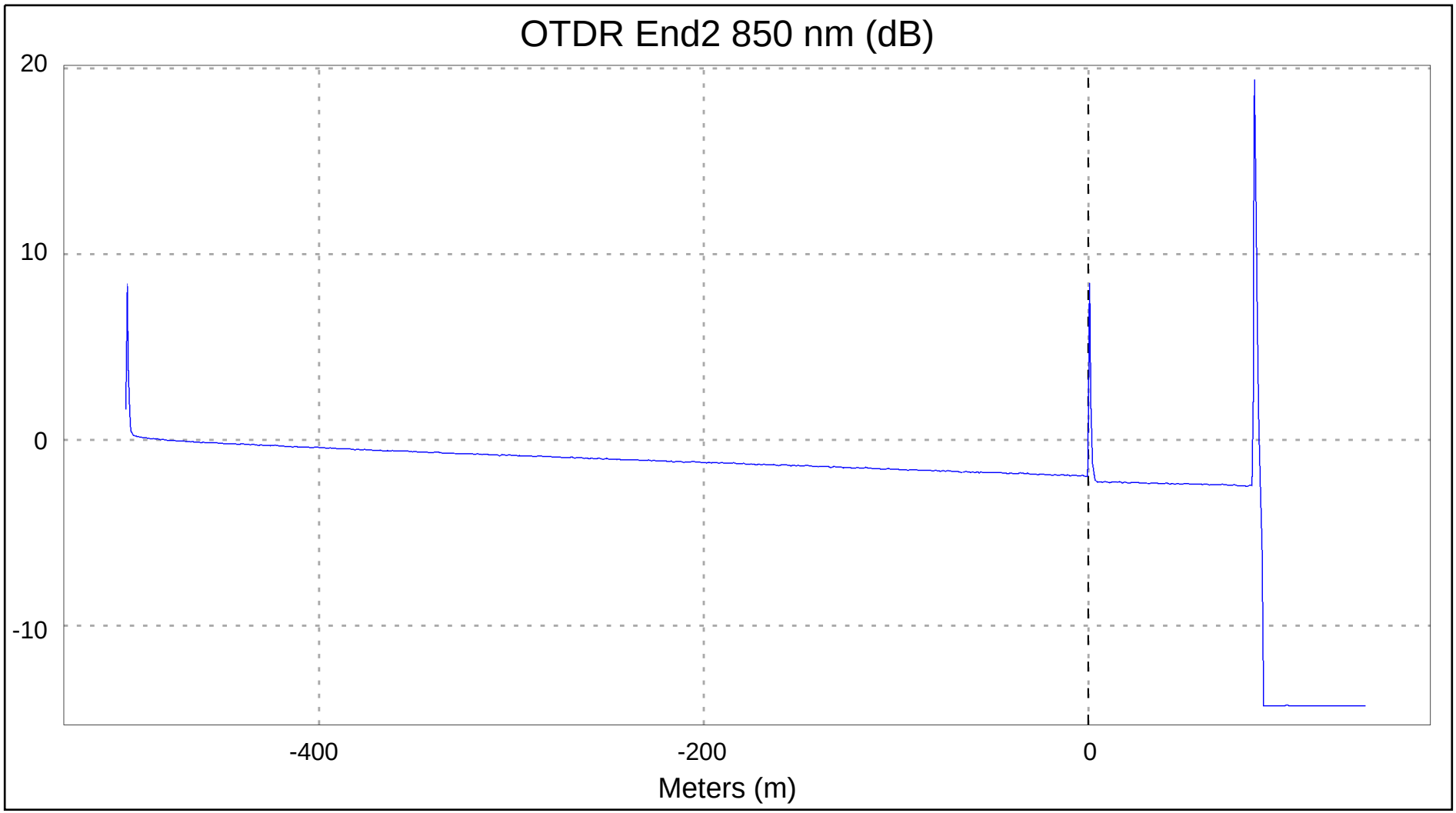
Cable ID: 020

Test Summary: PASS

Date / Time: 31-01-2025 09:39:28
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

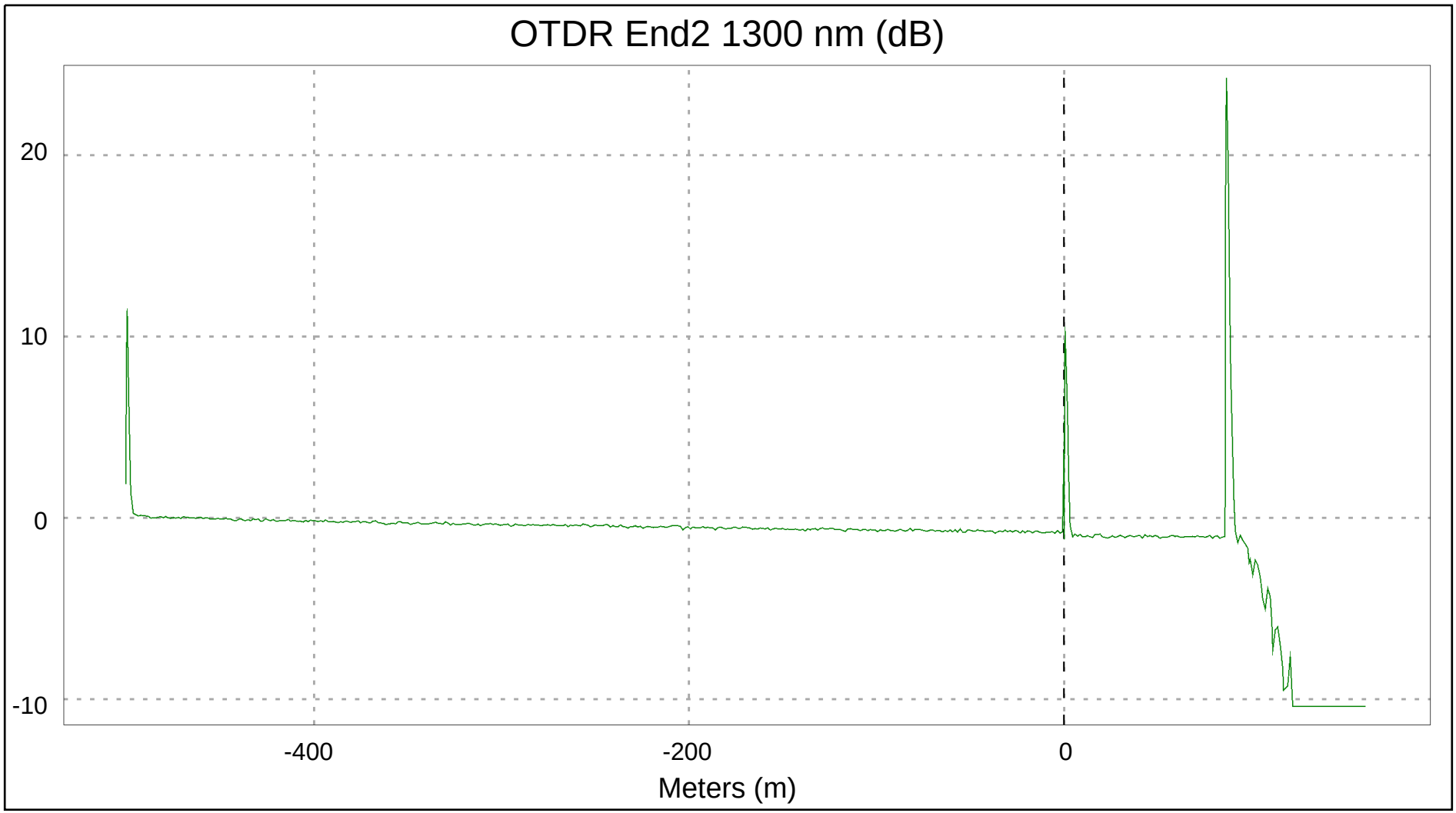
Cable ID: 020

Test Summary: PASS

Date / Time: 31-01-2025 09:39:28
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

Cable ID: 021

Date / Time: 31-01-2025 09:40:37
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

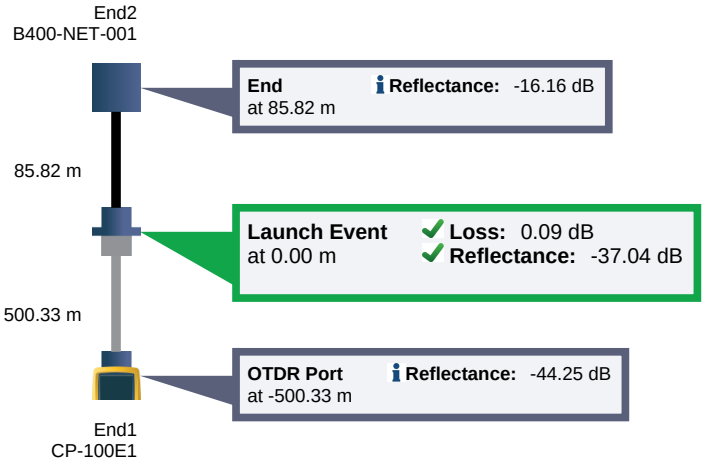
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.82 m
Overall Loss: 0.36 dB

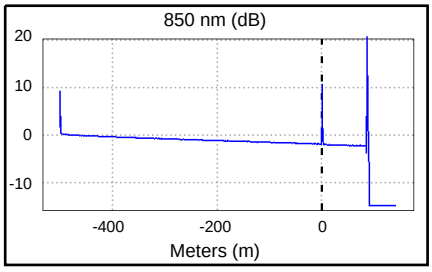


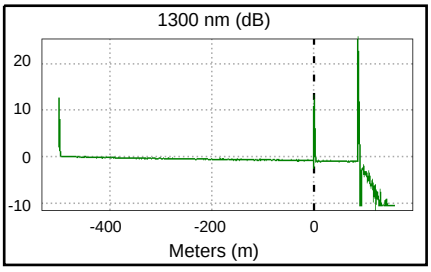
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:53:52
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	660 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.82			
Overall Loss (dB)		0.36		0.13	
ORL (dB)		35.71		39.15	
Events					
85.82 m End					
Reflectance (dB)		-16.16		-16.42	
Attn Coeff (dB/km)		3.43		0.43	

Cable ID: 021

Date / Time: 31-01-2025 09:40:37
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

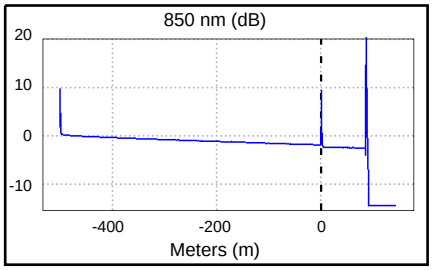
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.06	0.75	0.09	0.75
Reflectance (dB)		-37.04	-35.00	-39.47	-35.00
Attn Coeff (dB/km)		3.93		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-44.66		-44.25	

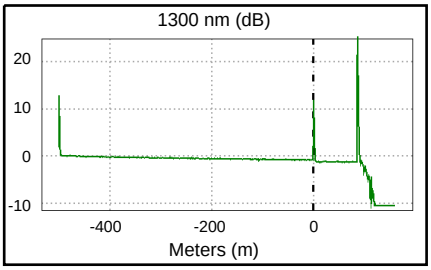
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:40:37
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	661 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.85			
Overall Loss (dB)		0.61		0.38	
ORL (dB)		37.08		40.77	
Events					
85.85 m End					
Reflectance (dB)		-16.07		-16.82	
Attn Coeff (dB/km)		2.54		1.00	
0.00 m Launch Event	PASS				
Loss (dB)		0.40	0.75	0.30	0.75
Reflectance (dB)		-40.28	-35.00	-41.35	-35.00
Attn Coeff (dB/km)		3.96		1.67	
-500.33 m OTDR Port					
Reflectance (dB)		-44.08		-43.92	

ROSETTI MARINO

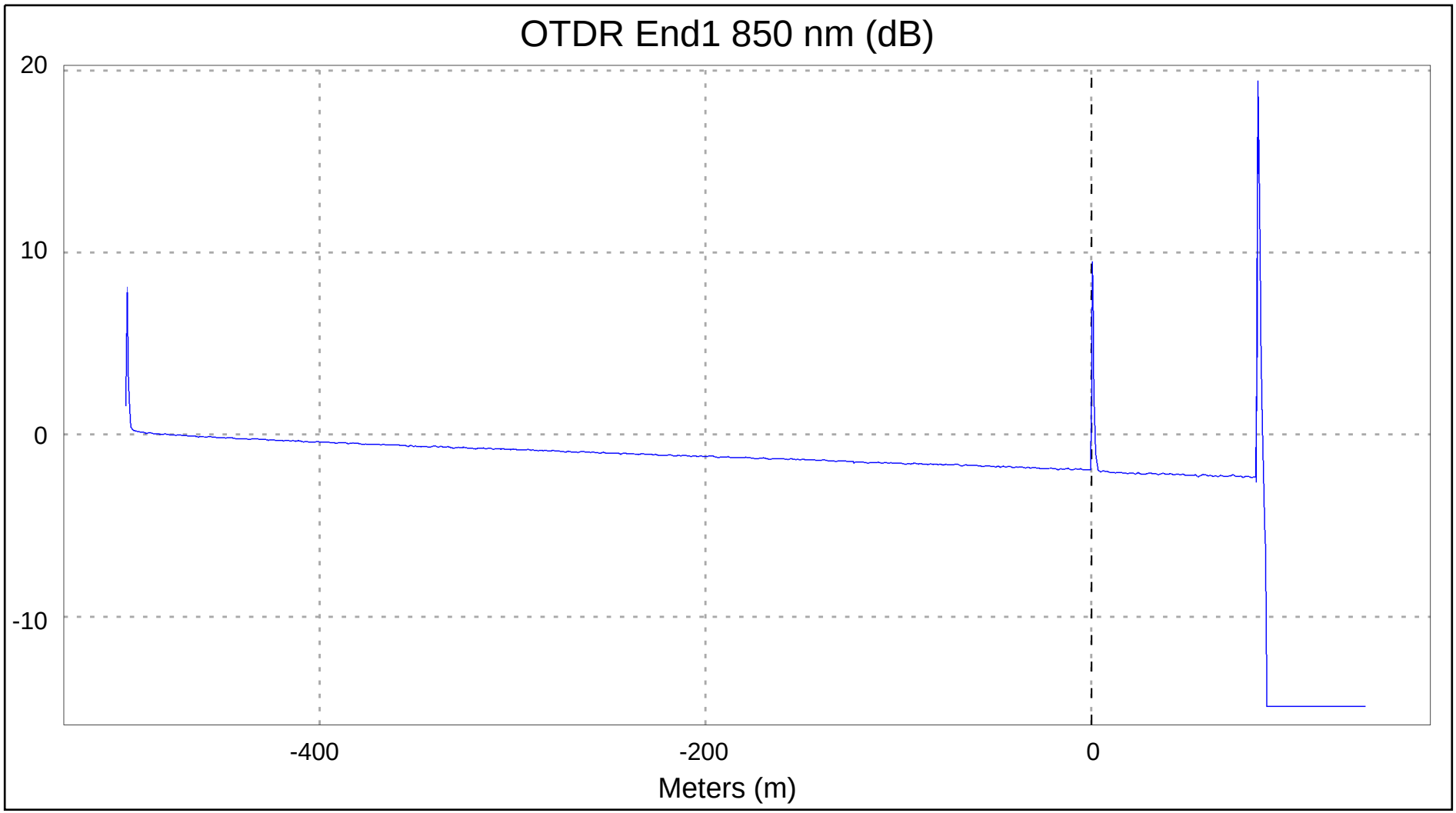
Cable ID: 021

Test Summary: PASS

Date / Time: 31-01-2025 09:40:37
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

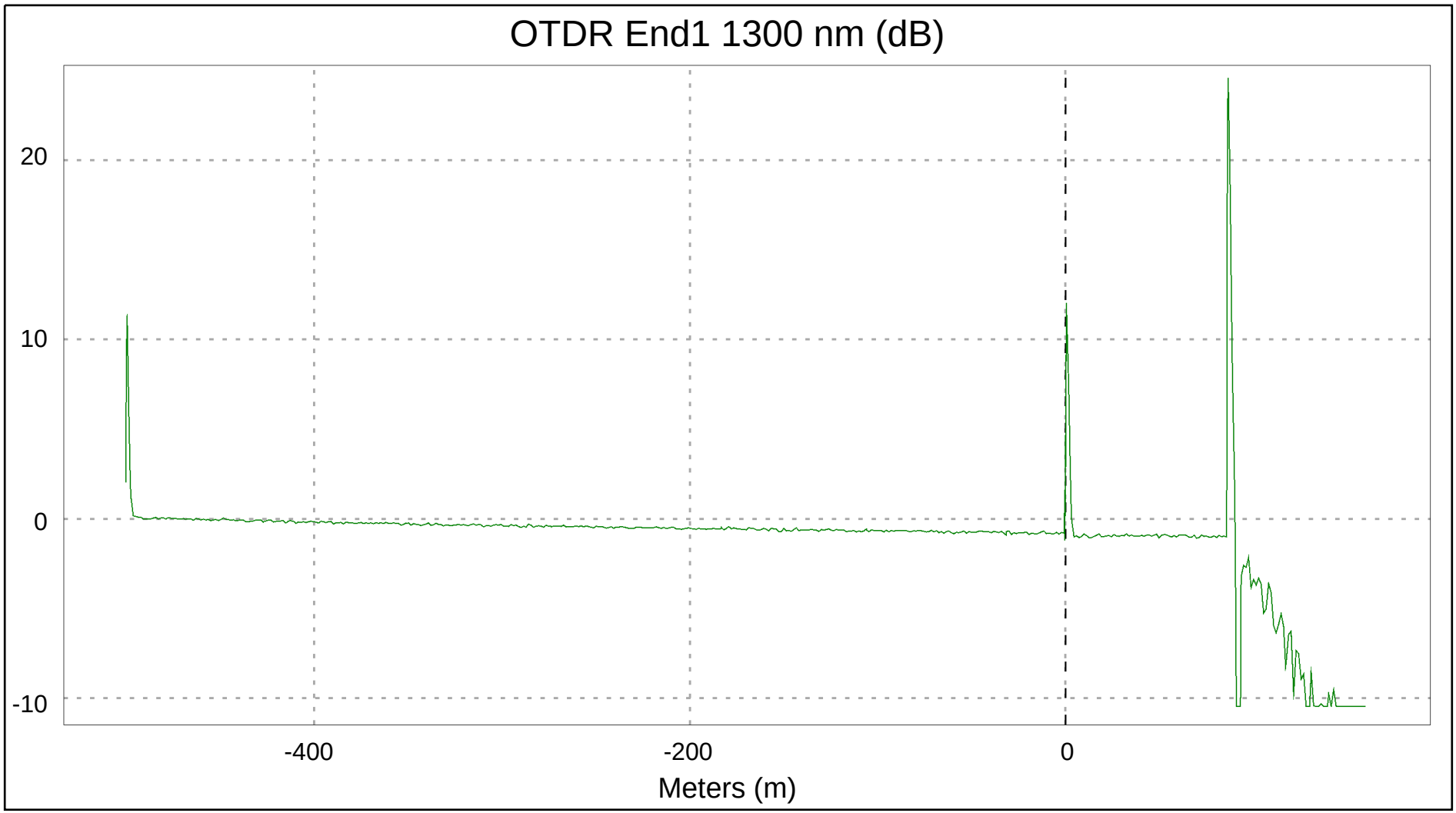
Cable ID: 021

Test Summary: PASS

Date / Time: 31-01-2025 09:40:37
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

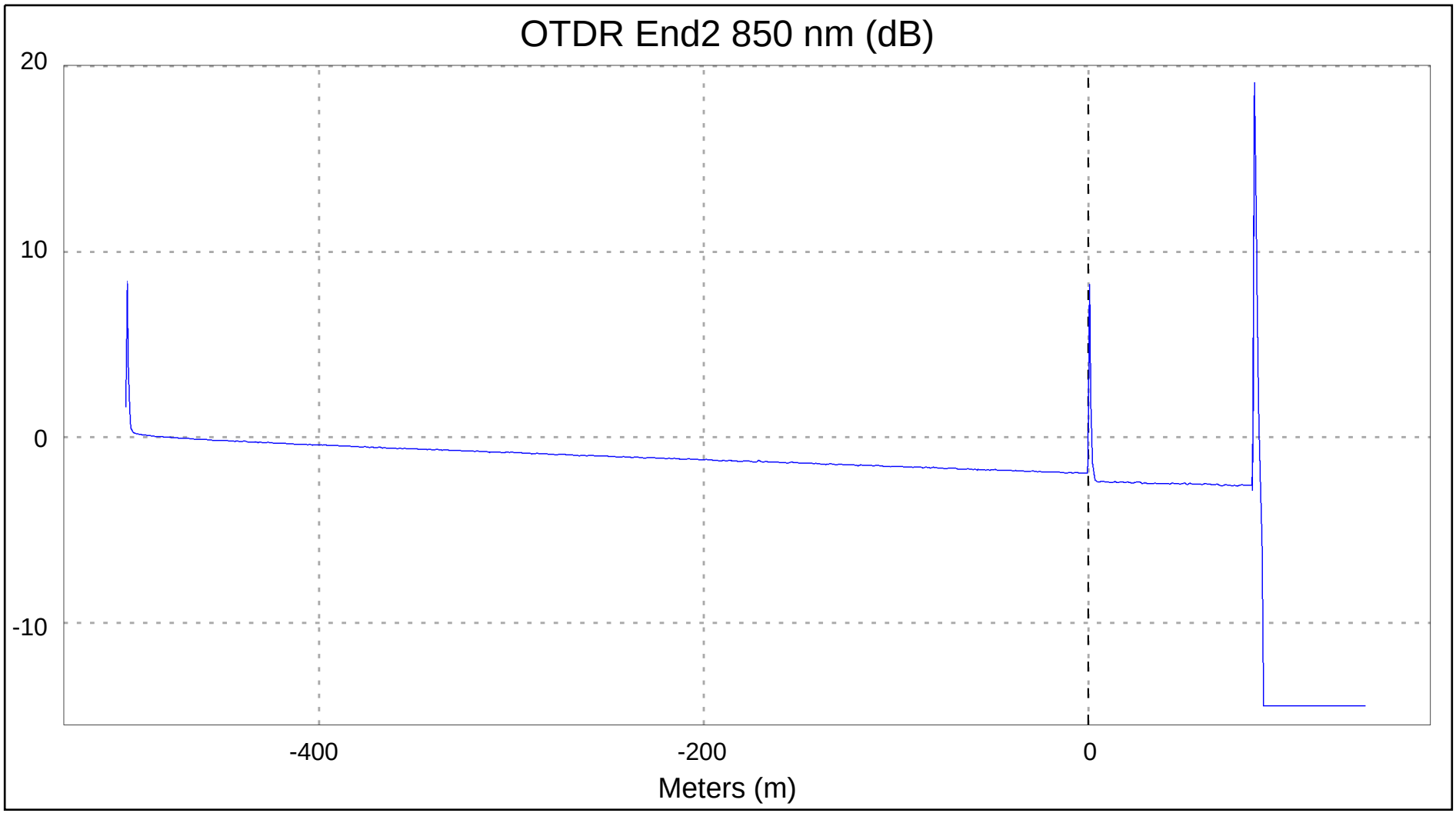
Cable ID: 021

Test Summary: PASS

Date / Time: 31-01-2025 09:40:37
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

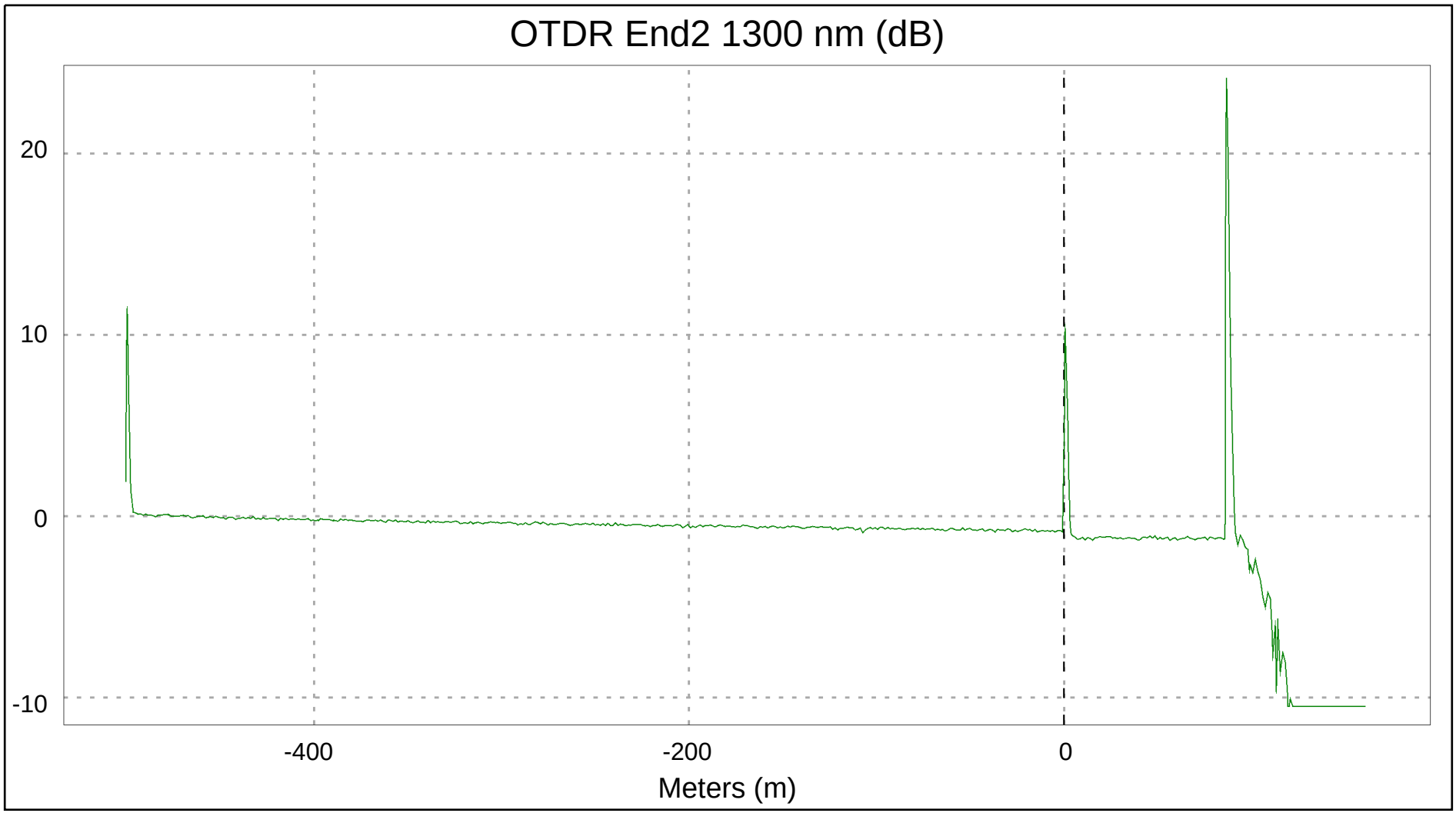
Cable ID: 021

Date / Time: 31-01-2025 09:40:37
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 022

Date / Time: 31-01-2025 09:40:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

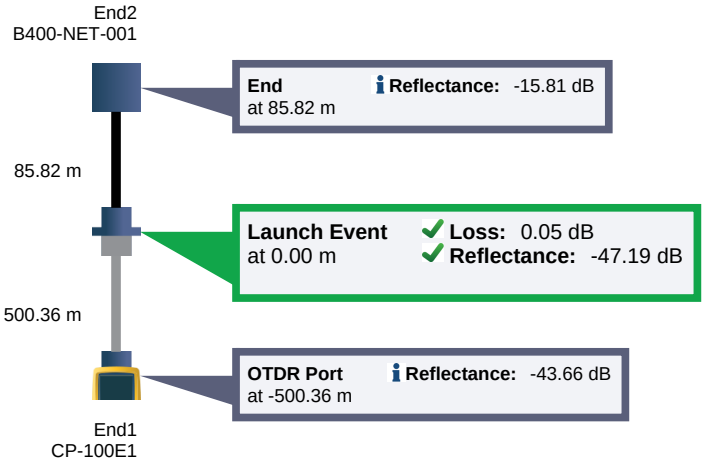
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.82 m
Overall Loss: 0.33 dB

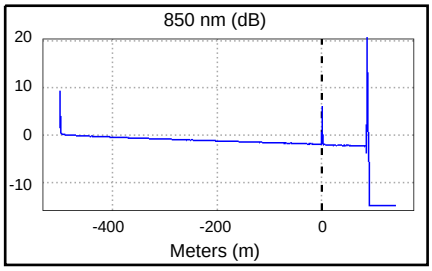


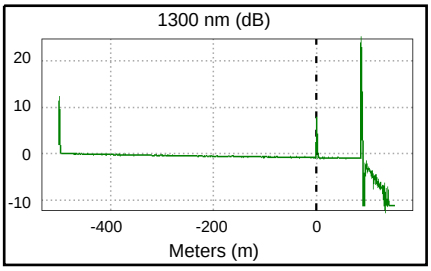
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:54:34
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.36 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	654 m
Resolution (Auto)	0.03 m	0.06 m
Pulse Width (Auto)	3 ns	5 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.82			
Overall Loss (dB)		0.33		0.10	
ORL (dB)		38.48		45.04	
Events					
85.82 m End					
Reflectance (dB)		-15.99		-15.81	
Attn Coeff (dB/km)		3.27		0.89	

Cable ID: 022

Date / Time: 31-01-2025 09:40:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

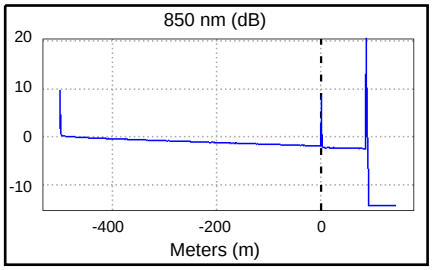
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.05	0.75	0.03	0.75
Reflectance (dB)		-47.19	-35.00	-49.11	-35.00
Attn Coeff (dB/km)		3.94		1.69	
-500.36 m OTDR Port					
Reflectance (dB)		-44.60		-43.66	

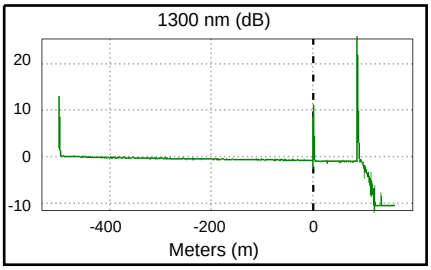
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:40:58
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	662 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.88			
Overall Loss (dB)		0.48		0.17	
ORL (dB)		37.65		41.96	
Events					
85.88 m End					
Reflectance (dB)		-15.62		-16.37	
Attn Coeff (dB/km)		2.56		0.63	
0.00 m Launch Event	PASS				
Loss (dB)		0.26	0.75	0.12	0.75
Reflectance (dB)		-42.10	-35.00	-43.16	-35.00
Attn Coeff (dB/km)		3.96		1.66	
-500.33 m OTDR Port					
Reflectance (dB)		-44.07		-43.89	

ROSETTI MARINO

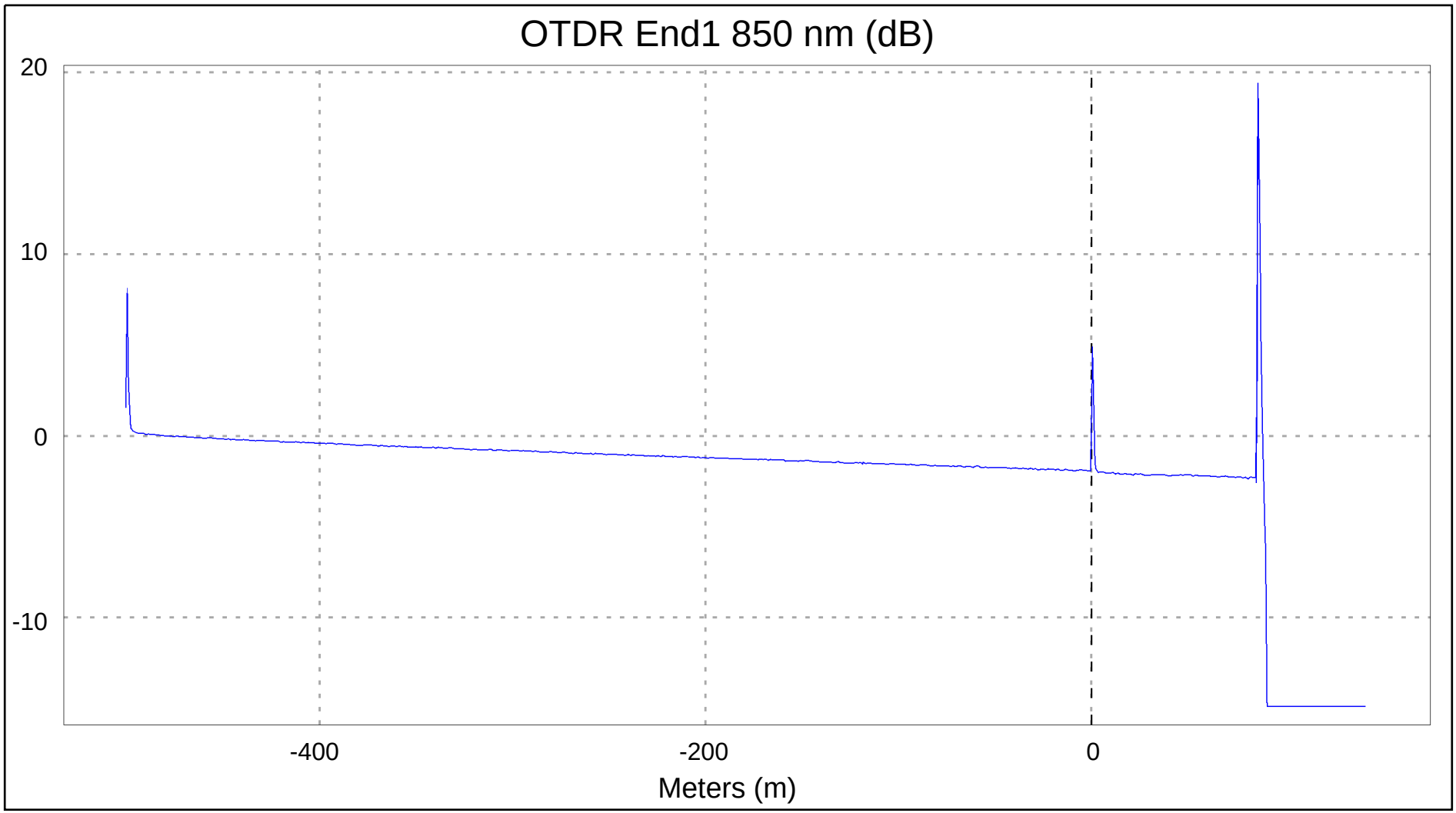
Cable ID: 022

Test Summary: PASS

Date / Time: 31-01-2025 09:40:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

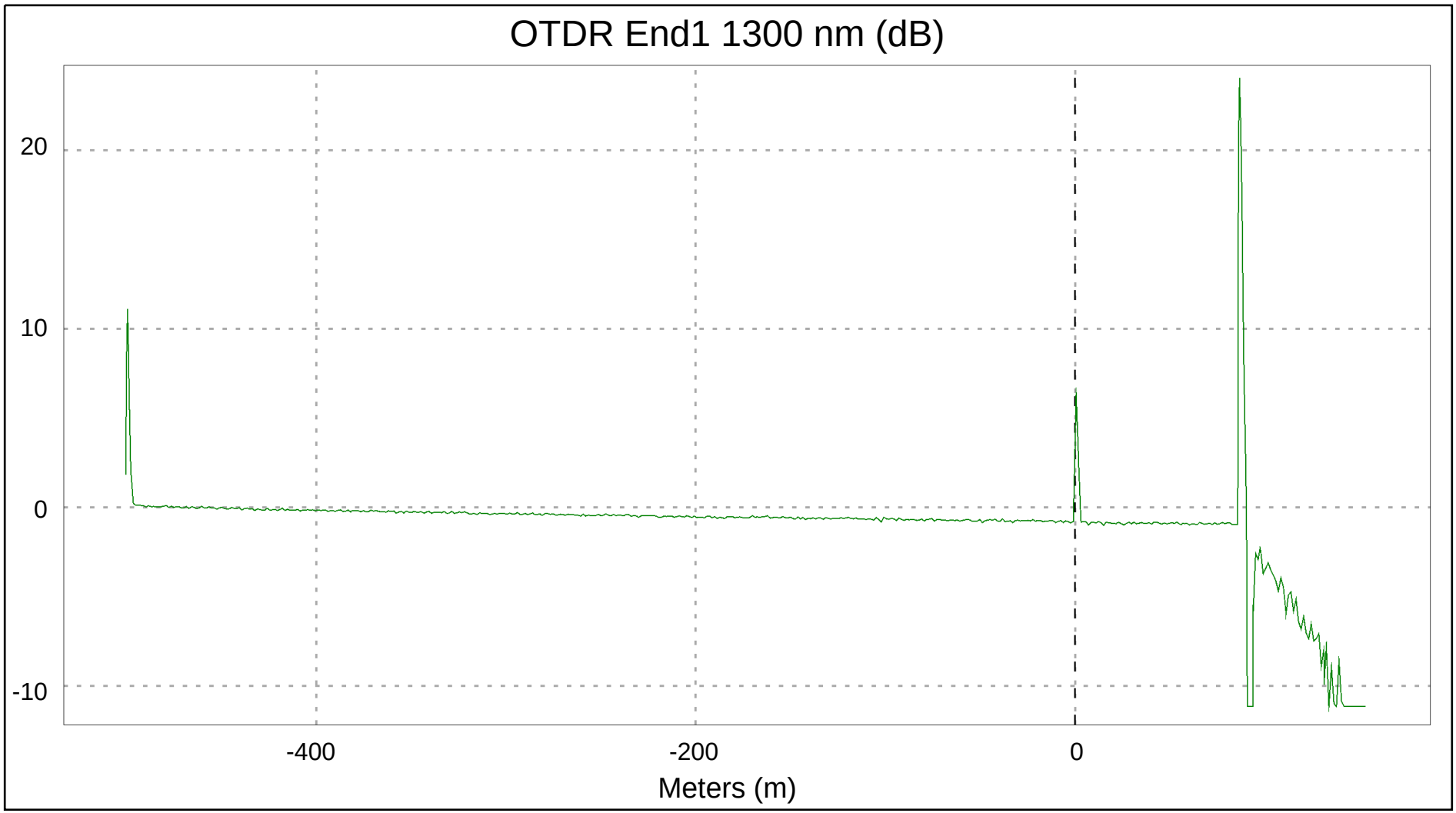
Cable ID: 022

Test Summary: PASS

Date / Time: 31-01-2025 09:40:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

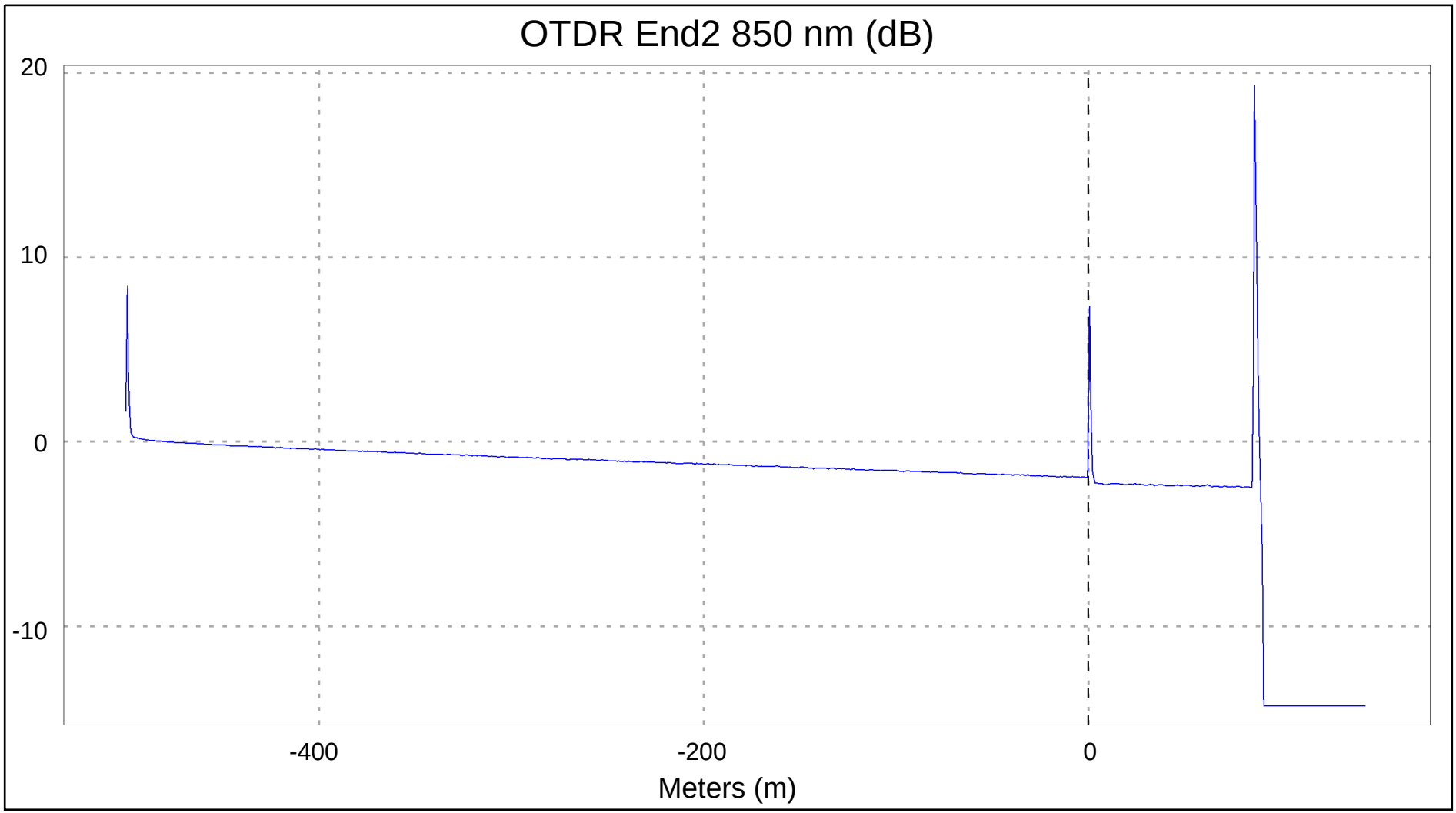
Cable ID: 022

Date / Time: 31-01-2025 09:40:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

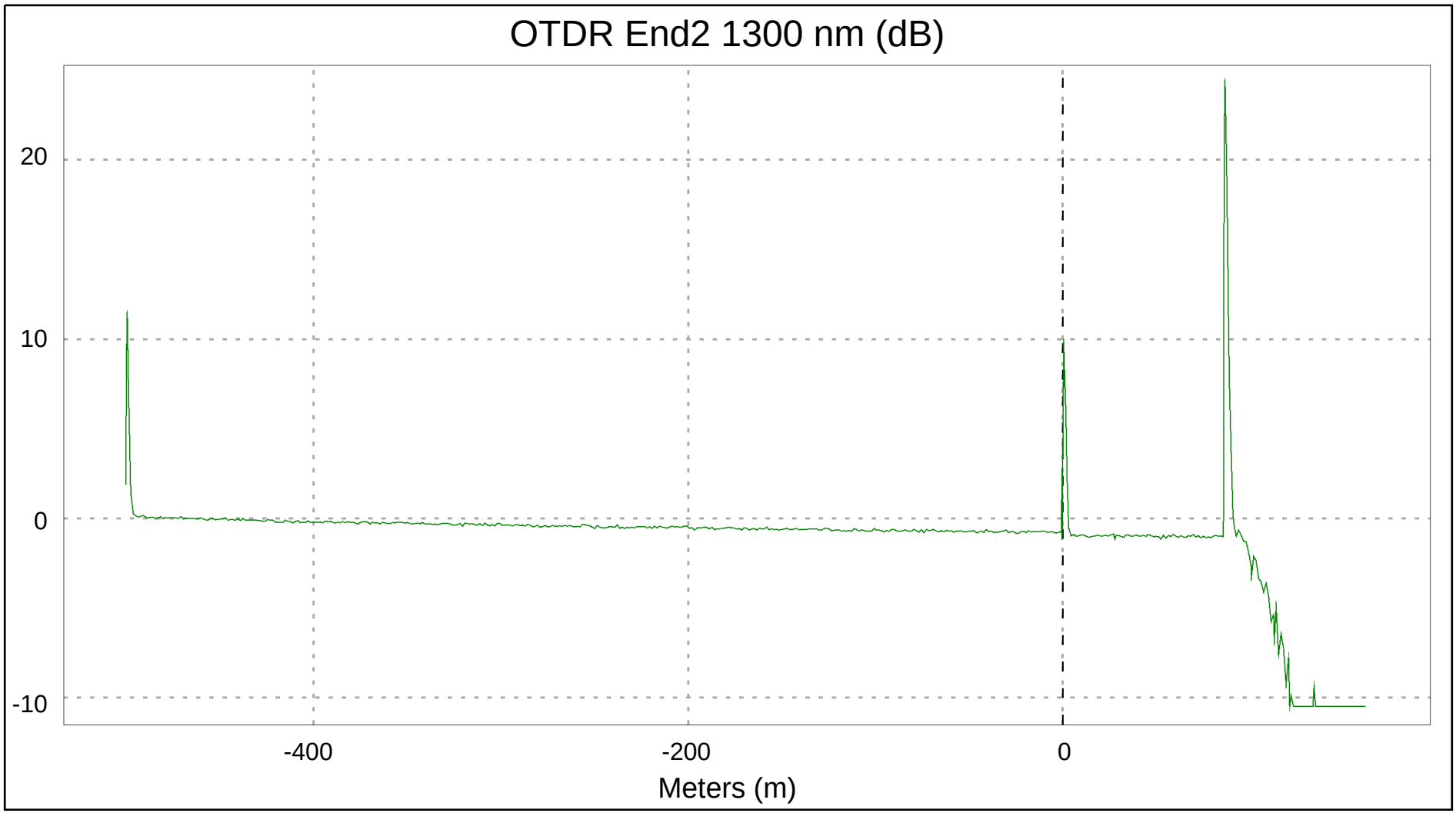
Cable ID: 022

Test Summary: PASS

Date / Time: 31-01-2025 09:40:58
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

ROSETTI MARINO

Cable ID: 023

Date / Time: 31-01-2025 09:42:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

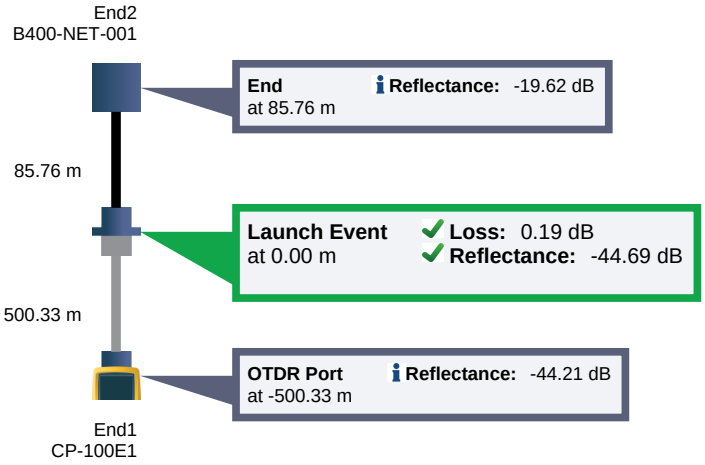
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.76 m
Overall Loss: 0.47 dB

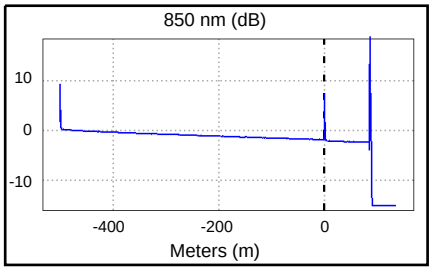


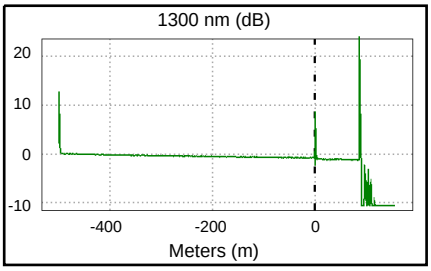
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:55:20
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	637 m	657 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.76			
Overall Loss (dB)		0.47		0.34	
ORL (dB)		38.30		44.97	
Events					
85.76 m End					
Reflectance (dB)		-19.85		-19.62	
Attn Coeff (dB/km)		3.24		1.70	

Cable ID: 023

Date / Time: 31-01-2025 09:42:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

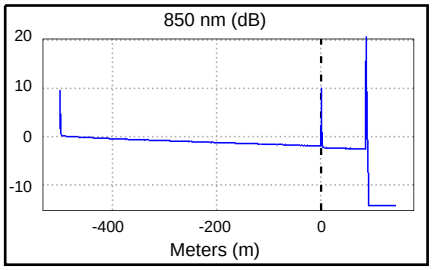
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		0.19	0.75	0.19	0.75
Reflectance (dB)		-44.69	-35.00	-48.61	-35.00
Attn Coeff (dB/km)		3.94		1.69	
-500.33 m OTDR Port					
Reflectance (dB)		-44.54		-44.21	

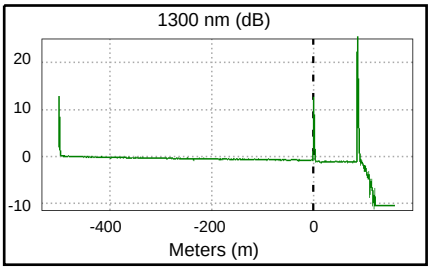
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:42:45
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	645 m	661 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.79			
Overall Loss (dB)		0.55		0.27	
ORL (dB)		36.48		40.28	
Events					
85.79 m End					
Reflectance (dB)		-15.90		-16.73	
Attn Coeff (dB/km)		2.50		0.30	
0.00 m Launch Event	PASS				
Loss (dB)		0.34	0.75	0.24	0.75
Reflectance (dB)		-39.15	-35.00	-40.80	-35.00
Attn Coeff (dB/km)		3.96		1.66	
-500.33 m OTDR Port					
Reflectance (dB)		-44.05		-44.04	

ROSETTI MARINO

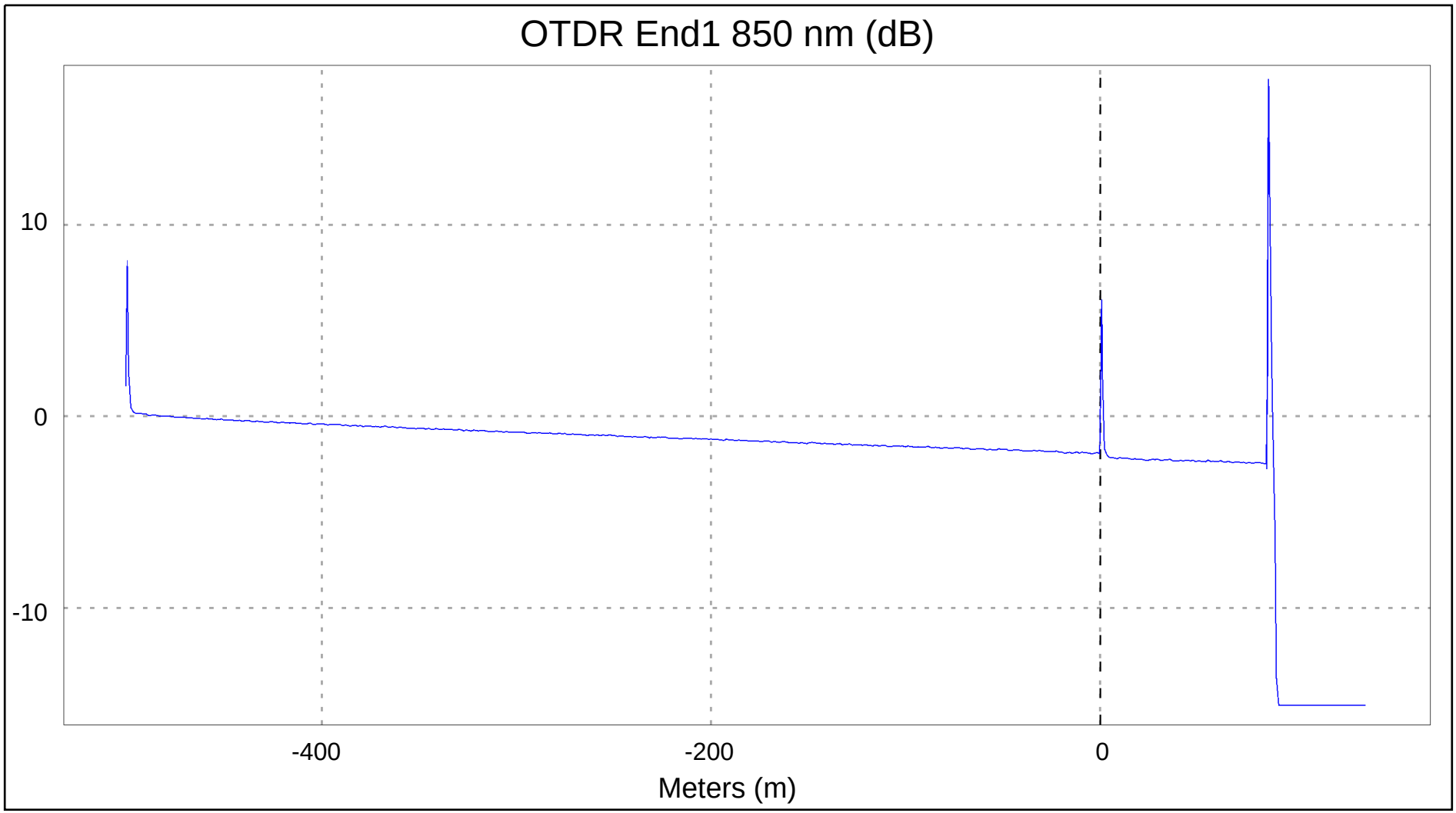
Cable ID: 023

Date / Time: 31-01-2025 09:42:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

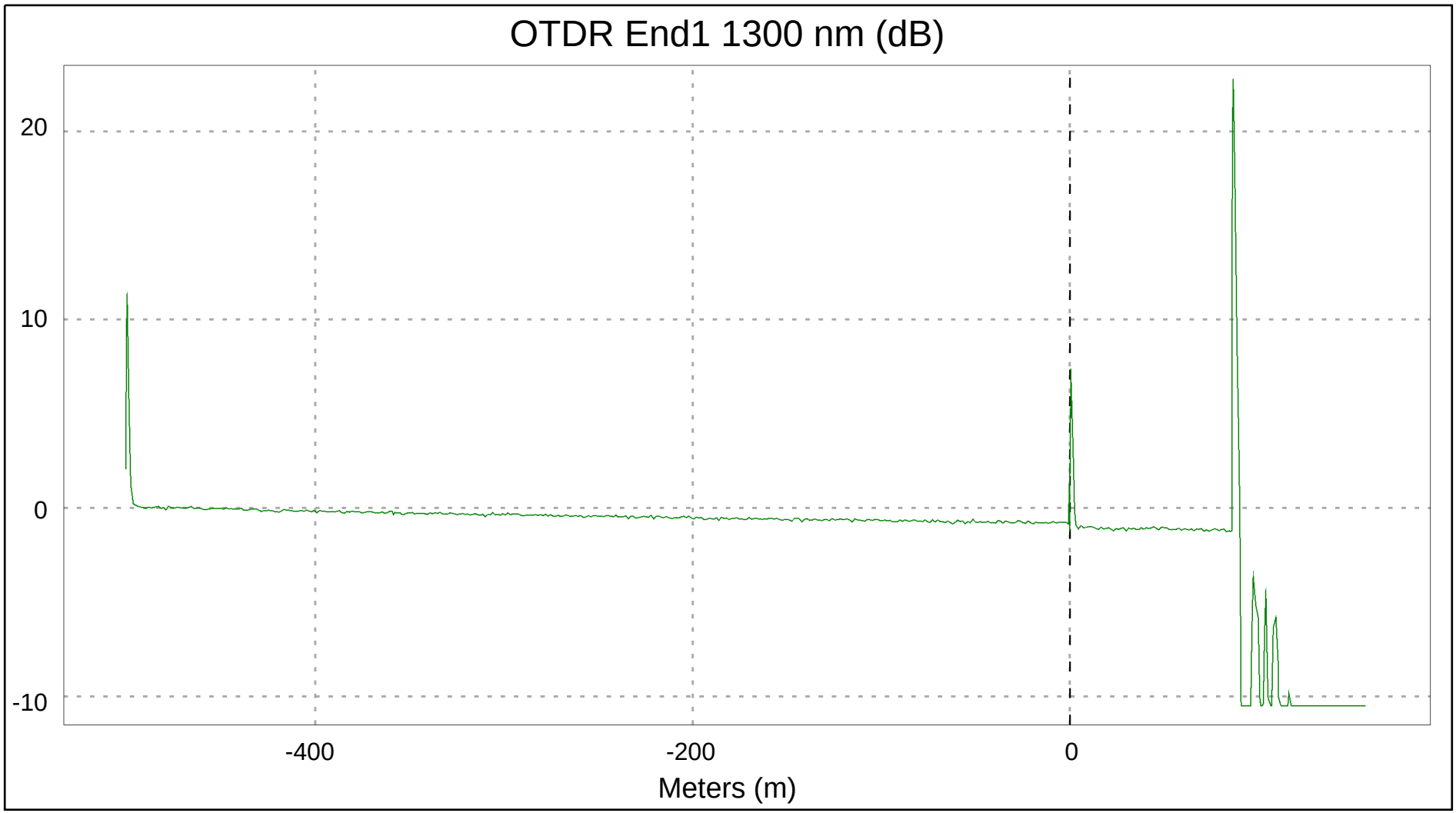
Cable ID: 023

Test Summary: PASS

Date / Time: 31-01-2025 09:42:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

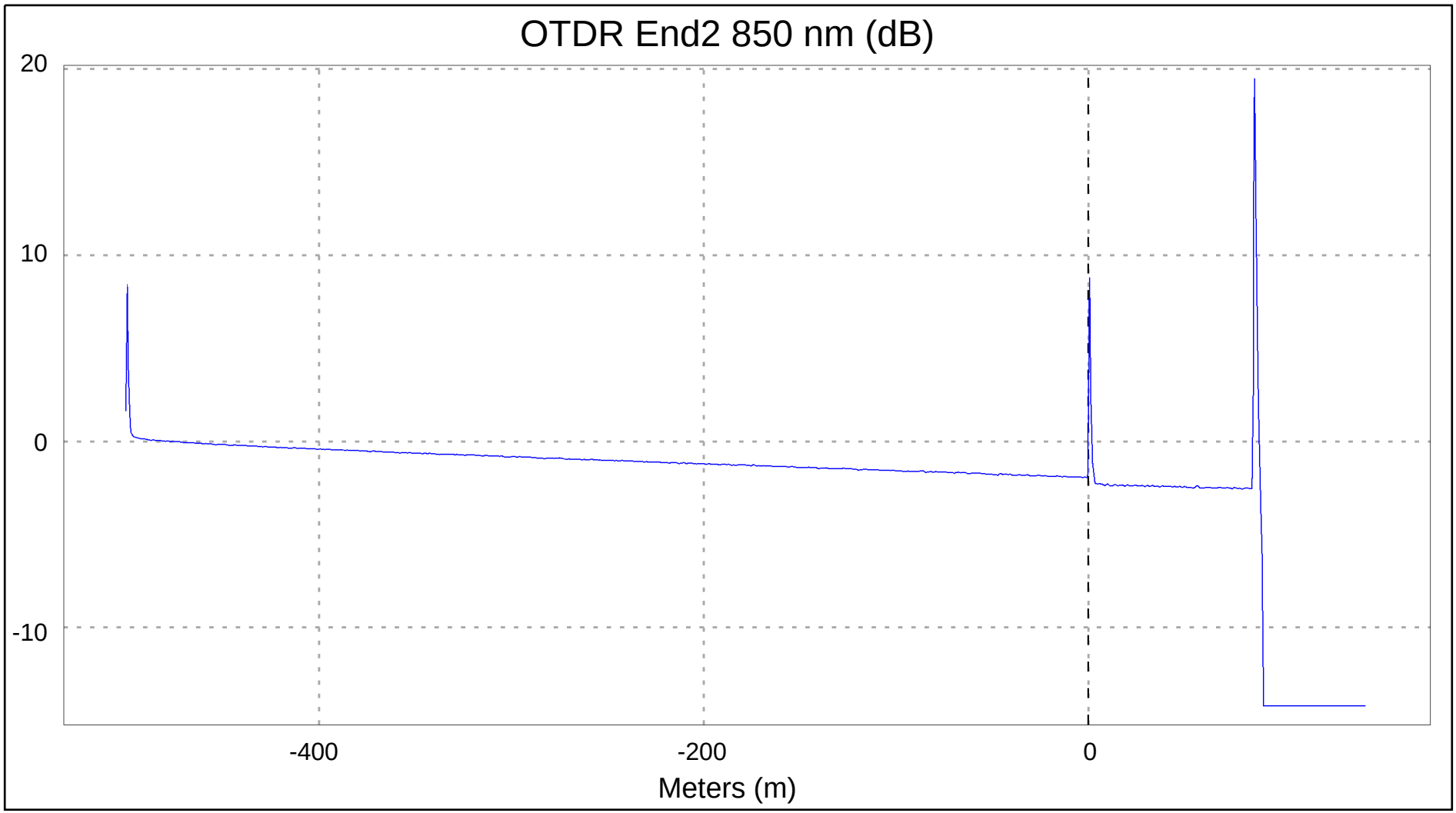
Cable ID: 023

Date / Time: 31-01-2025 09:42:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

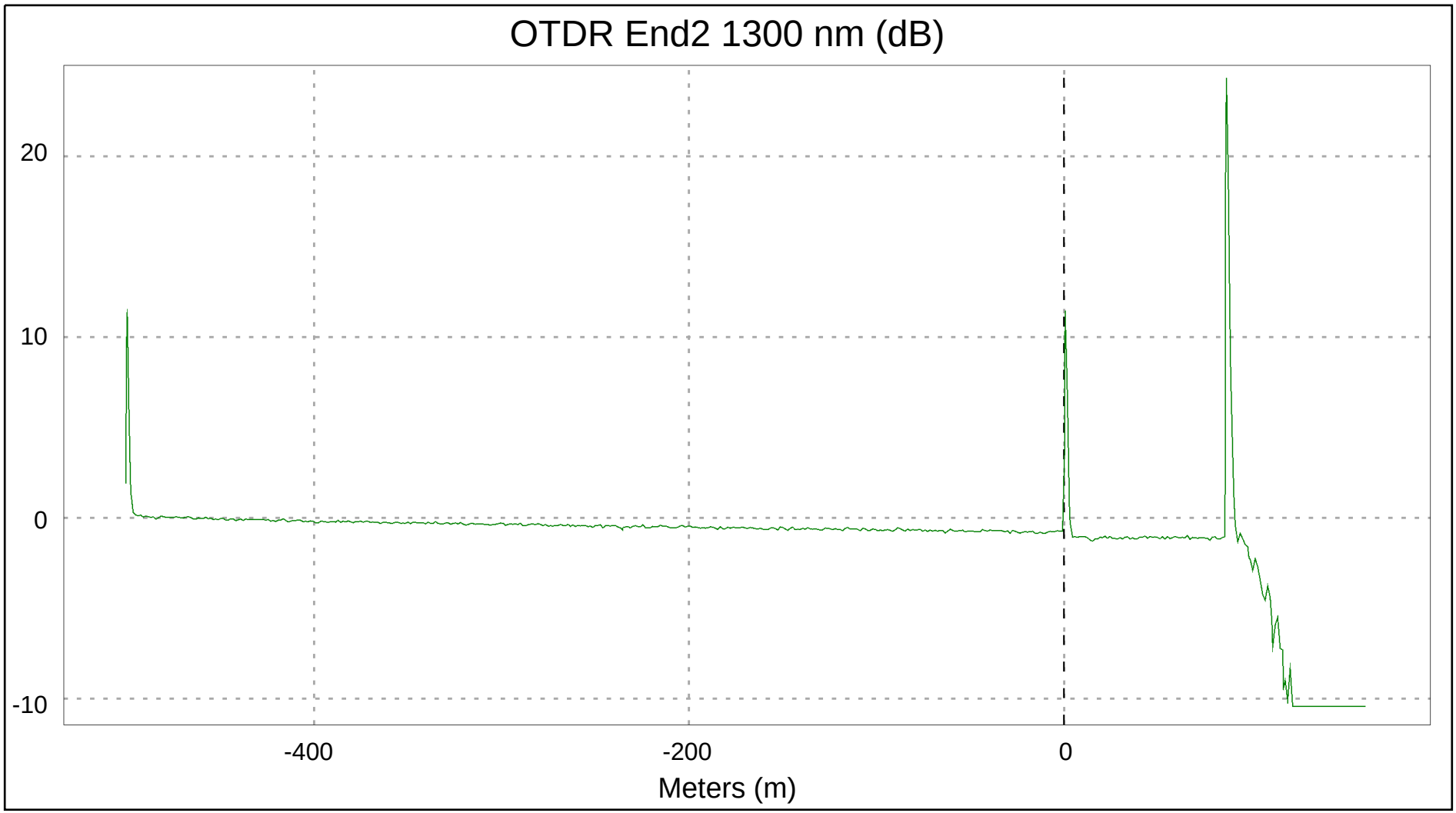
Cable ID: 023

Test Summary: PASS

Date / Time: 31-01-2025 09:42:45
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Cable ID: 024

Date / Time: 31-01-2025 09:43:04
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

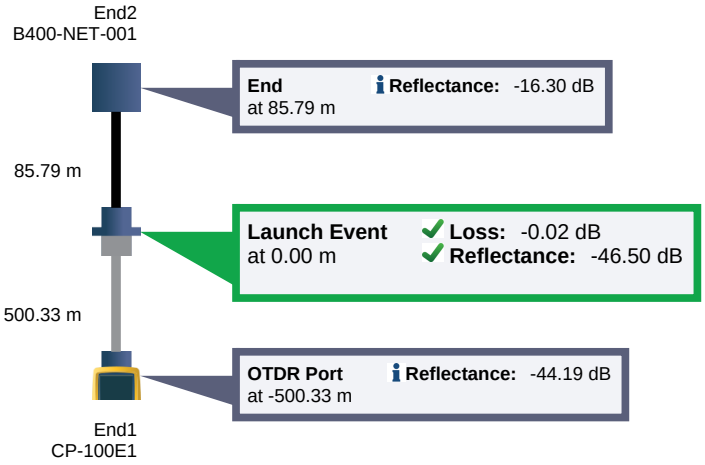
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 EventMap

Fiber Length: 85.79 m
Overall Loss: 0.28 dB

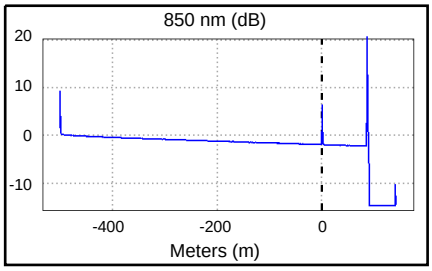


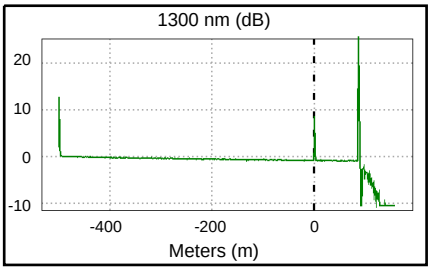
OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 08:55:41
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	643 m	659 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	1 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.79			
Overall Loss (dB)		0.28		0.04	
ORL (dB)		38.29		44.66	
Events					
85.79 m End					
Reflectance (dB)		-16.30		-16.71	
Attn Coeff (dB/km)		3.42		0.69	

Cable ID: 024

Date / Time: 31-01-2025 09:43:04
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Test Summary: PASS

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

OTDR End1 PASS

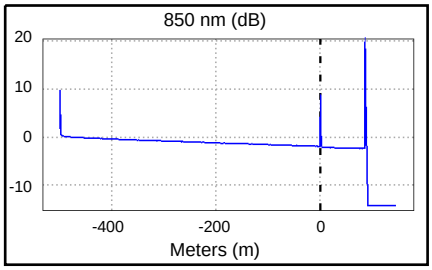
Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Events					
0.00 m Launch Event	PASS				
Loss (dB)		-0.02	0.75	-0.02	0.75
Reflectance (dB)		-46.50	-35.00	-48.66	-35.00
Attn Coeff (dB/km)		3.93		1.68	
-500.33 m OTDR Port					
Reflectance (dB)		-44.50		-44.19	

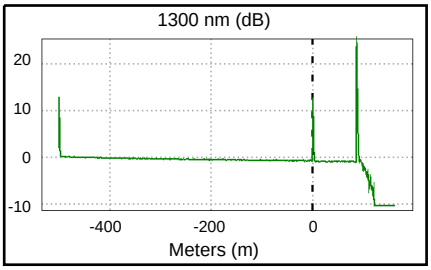
OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.8
Date / Time: 31-01-2025 09:43:04
Versiv
S/N: 23283361
Software Version: V6.10 Build 1
Module: OptiFiber Pro (OFP-QUAD)
S/N: 23390416
Calibration Start Date: 04-12-2023

Launch Only
Launch Type: Multimode
Launch Length : 500.33 m
Compensation Date: 30-01-2025 13:52
Macrobend Detection: Disabled

Auto OTDR	850 nm	1300 nm
Range (Auto)	647 m	663 m
Resolution (Auto)	0.03 m	0.03 m
Pulse Width (Auto)	3 ns	3 ns
Averaging Time (Auto)	2 s	7 s
Loss Threshold (Auto)	0.10 dB	0.10 dB
End Threshold (Auto)	0.00 dB	0.00 dB





Measurements	Status	850 nm Value	850 nm Limit	1300 nm Value	1300 nm Limit
Overall Length (m)		85.85			
Overall Loss (dB)		0.40		0.10	
ORL (dB)		37.27		41.34	
Events					
85.85 m End					
Reflectance (dB)		-15.82		-16.56	
Attn Coeff (dB/km)		2.61		0.30	
0.00 m Launch Event	PASS				
Loss (dB)		0.18	0.75	0.08	0.75
Reflectance (dB)		-41.35	-35.00	-42.34	-35.00
Attn Coeff (dB/km)		3.95		1.66	
-500.33 m OTDR Port					
Reflectance (dB)		-44.06		-44.01	

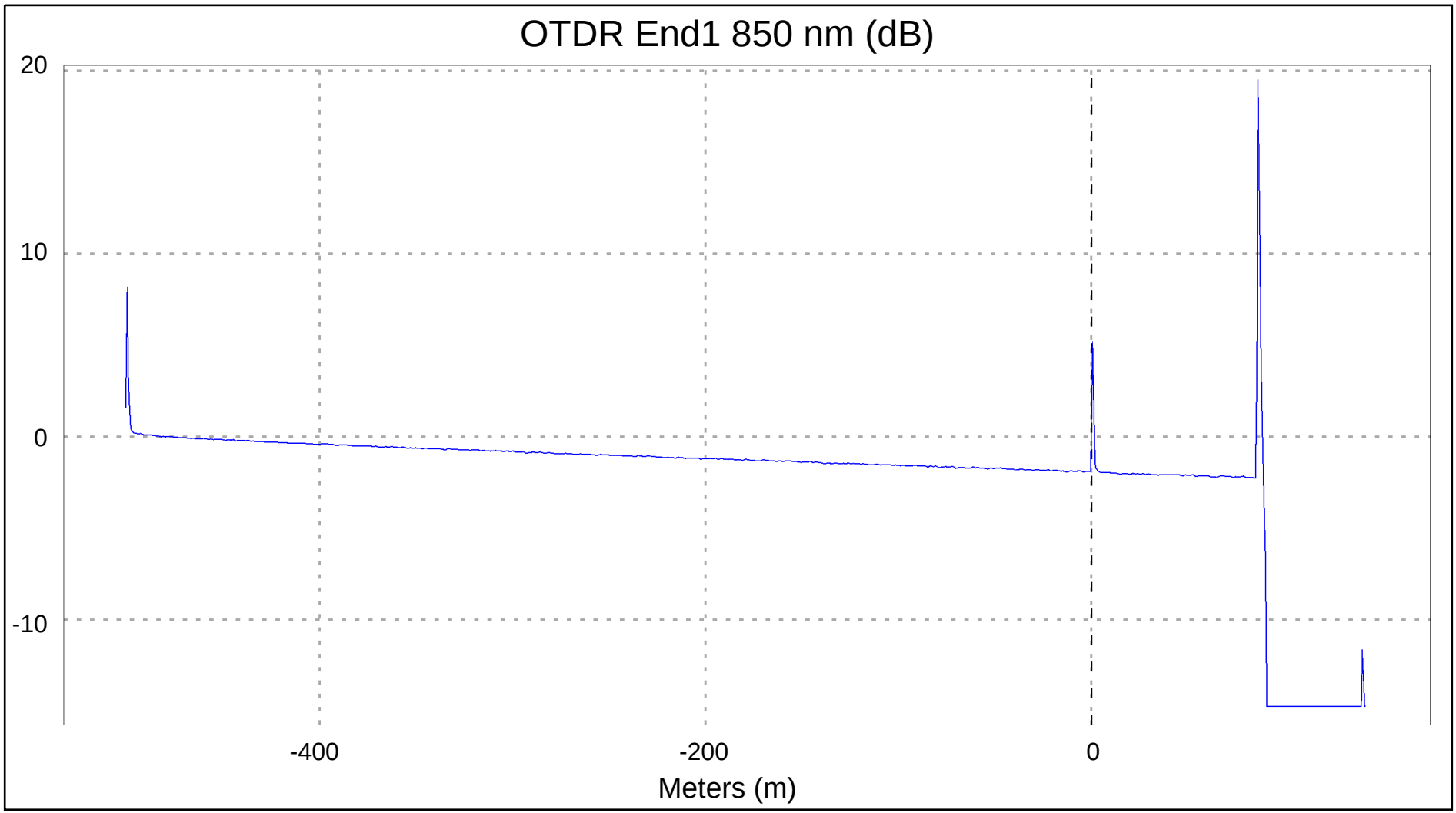
Cable ID: 024

Test Summary: PASS

Date / Time: 31-01-2025 09:43:04
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

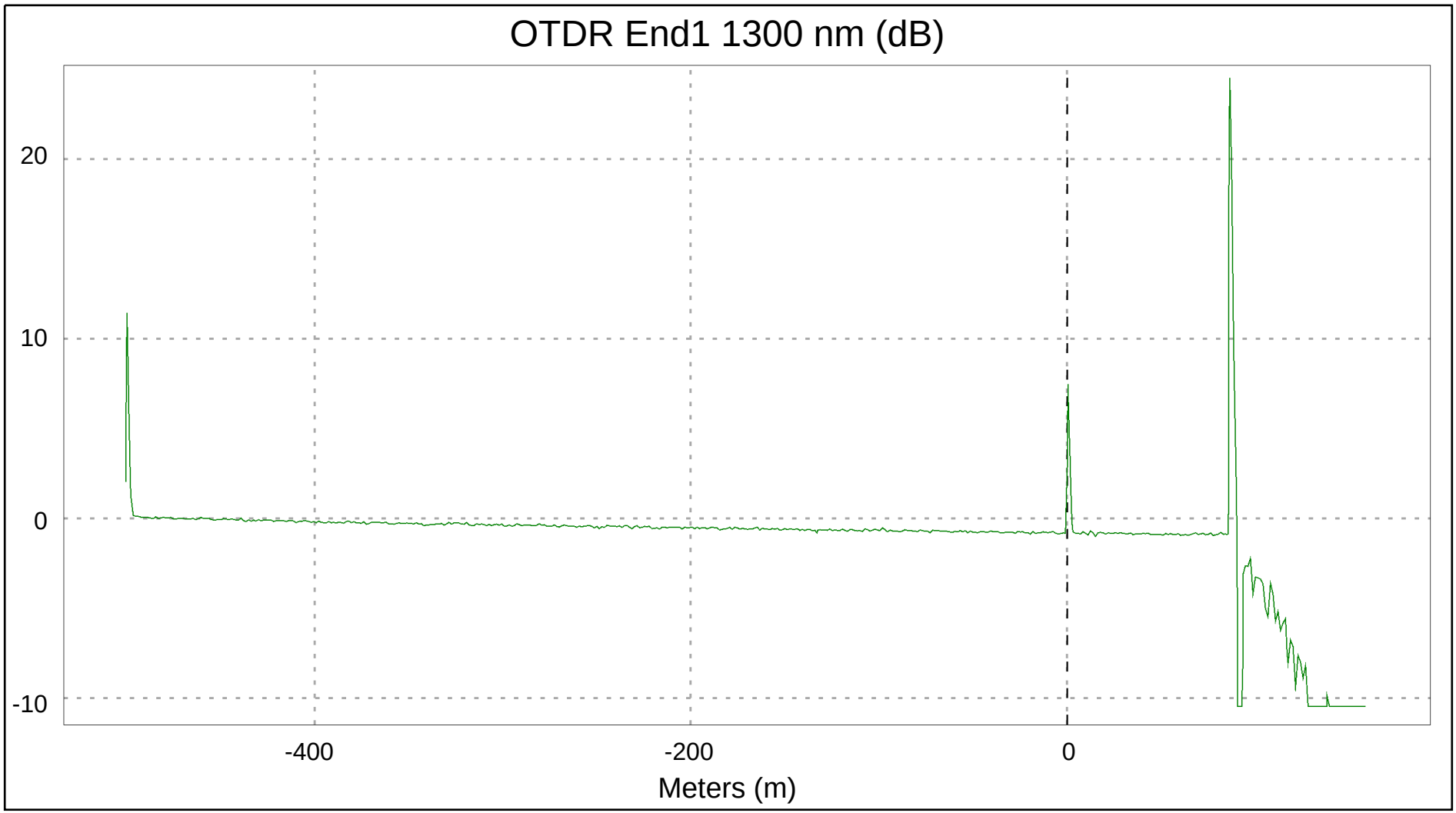
Cable ID: 024

Test Summary: PASS

Date / Time: 31-01-2025 09:43:04
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

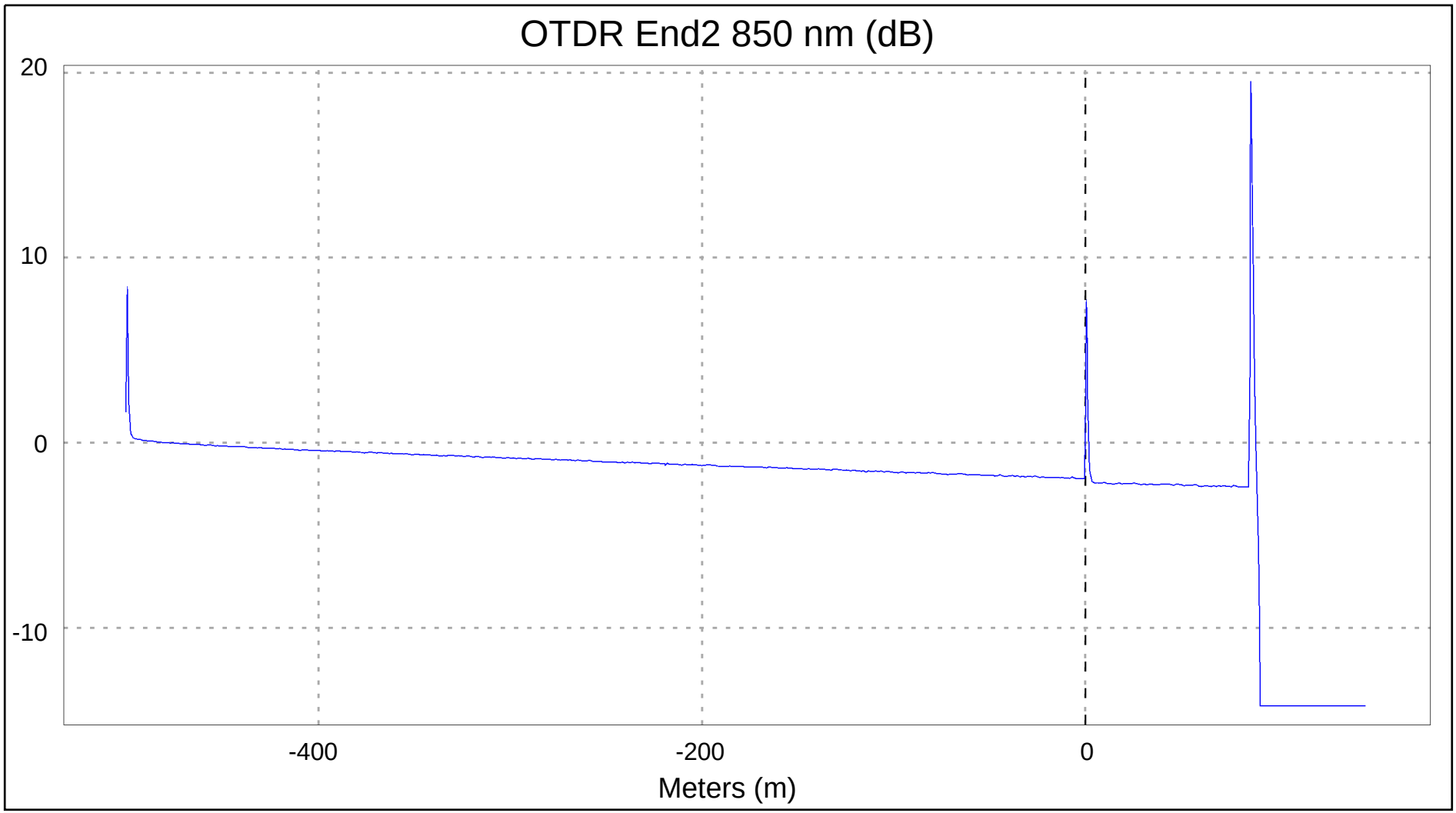
Cable ID: 024

Test Summary: PASS

Date / Time: 31-01-2025 09:43:04
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001



LinkWare™ PC Version 11.4

Project: CROSSWIND CP-100E1/B400-NET-001.02
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

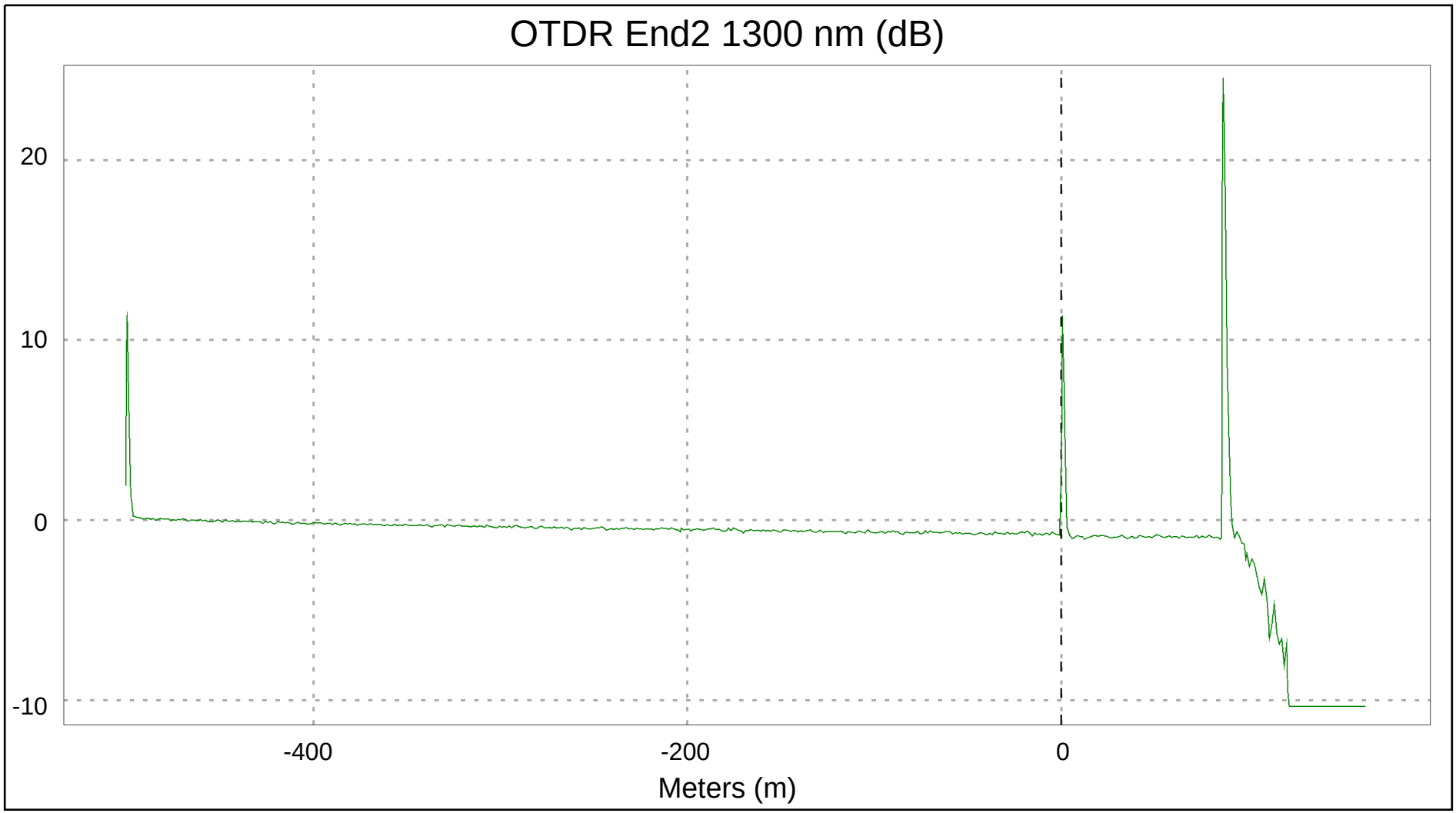
Cable ID: 024

Test Summary: PASS

Date / Time: 31-01-2025 09:43:04
Cable Type: OM2 Multimode 50
Modal Bandwidth: 500MHz-km

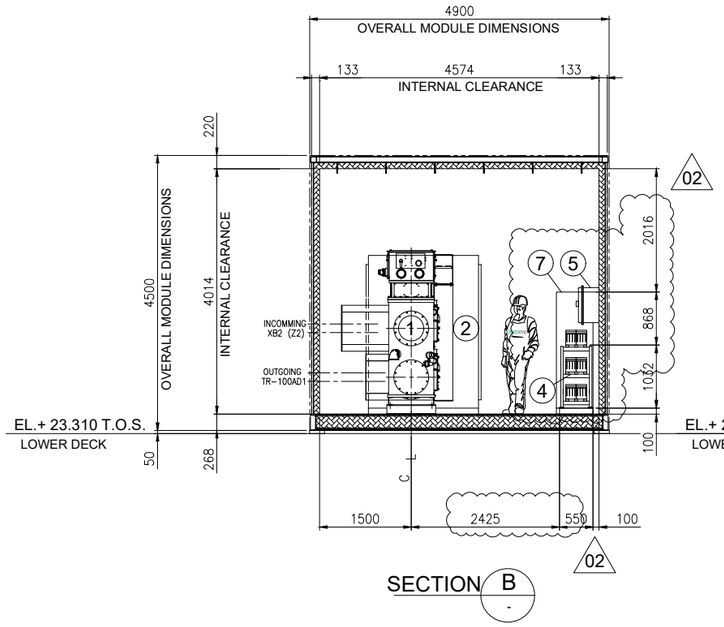
n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)
End1 Name: CP-100E1

Backscatter Coefficient: -68.0dB (850 nm)
Backscatter Coefficient: -75.8dB (1300 nm)
End2 Name: B400-NET-001

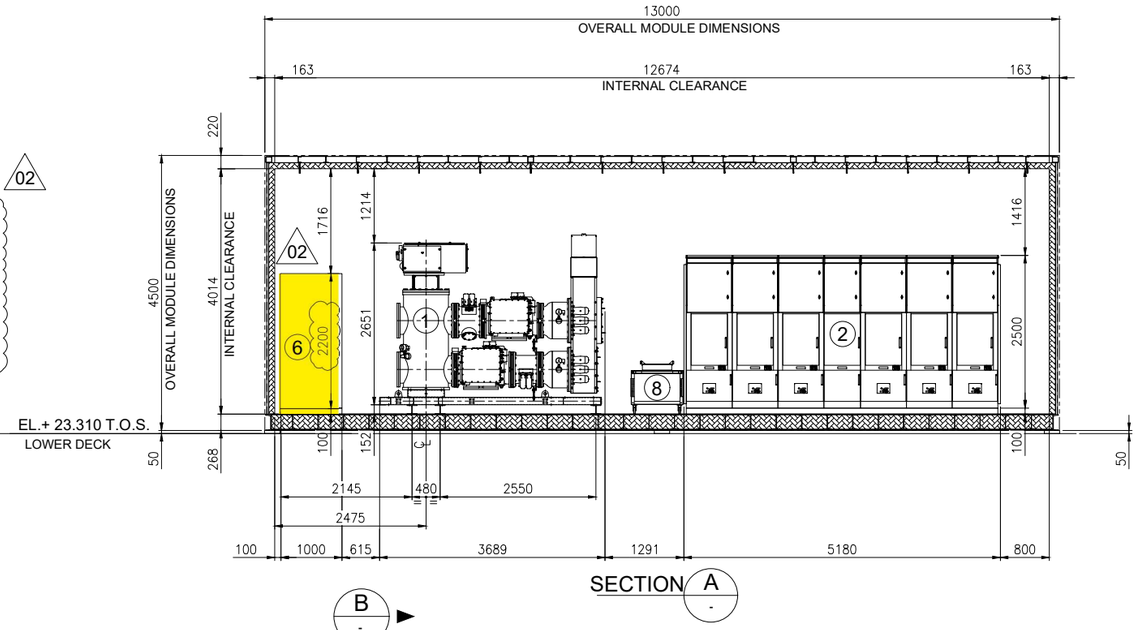


LinkWare™ PC Version 11.4

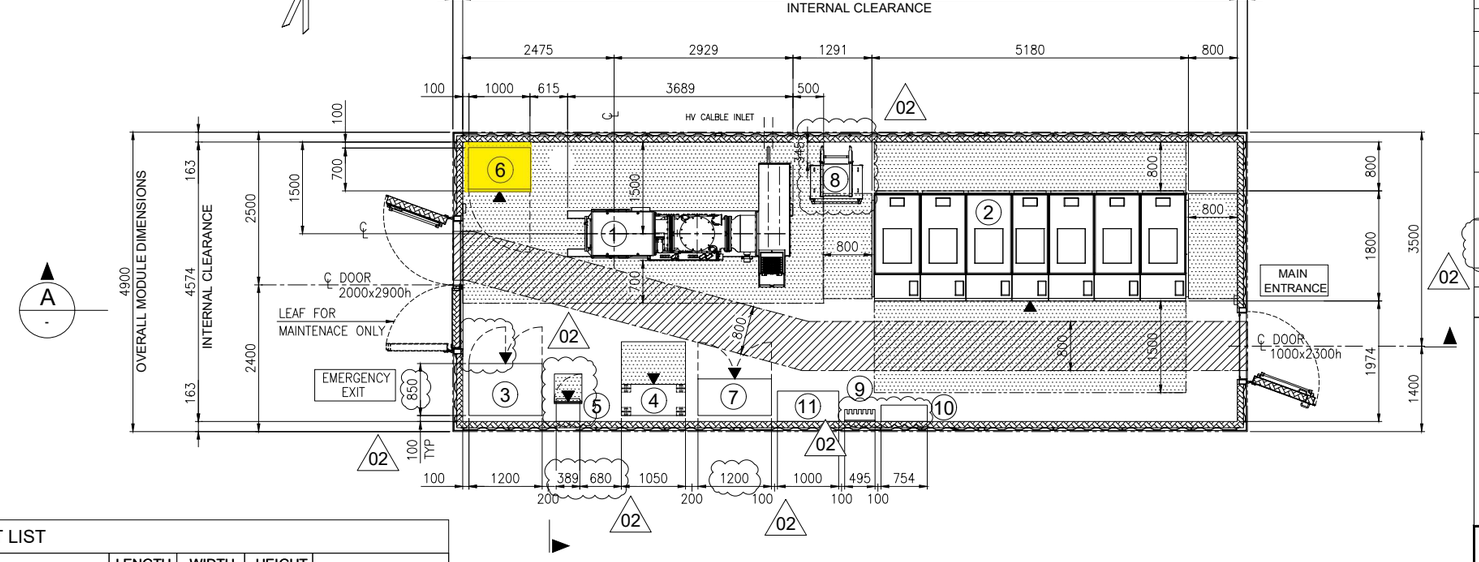
DRAWING NO. 123A90-DDL-EL-DL-20104 | REV. 02



SECTION B -

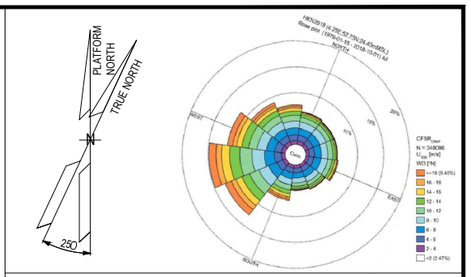


SECTION A -



EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	HNA6-AFA70	66kV SWITCHGEAR (GIS)	3689	2025	2651	
2	SG-100D1	6.6kV SWITCHGEAR	5180	1800	2500	
3	UP-200F1	DC UPS PANEL	1200	850	2105	
4	BA-200F1	DC UPS BATTERY RACK	1050	510	1272	
5	CB-200F1 02	ISOLATOR FOR DC UPS	452	377	634	
6	CP-100E1	66 kV SWITCHGEAR LOCAL CONTROL PANEL	1000	700	2200	02
7	B100-HSB-001	DISTRIBUTION & HVAC PANEL - HV MV ROOM	1200	600	1900	
8	-	SERVICE TROLLEY FOR 6.6kV SWITCHGEAR	943	862	874	
9	-	TOOL BOX	495	200	200	
10	-	SUBSTATION LIFE SAVING & INTERVENTION KIT	754	270	840	
11	-	TABLE	1000	500	750	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DELETED
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT.
4. FOR OTHER ITEMS, CORRECT LOCATION AND INFROMATION, PLEASE REFER TO VENDORS AND DEDICATED PROJECT DOCUMENTATION.
5. HEIGHT OF ALL PANELS IN THE EQUIPMENT LIST TABLE IS WITHOUT THE BASE FRAME (100mm)

02

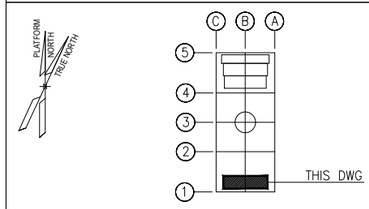
LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOSURE
_____ FRONT OF EQUIPMENT

REFERENCES

DOCUMENT TITLE	DOCUMENT NUMBER
66kV SWITCHGEAR (GIS) GENERAL ARRANGEMENT DRAWING	1723001595-EL-DA-00006
CIRCUIT AND WIRING DIAGRAM	1723001595-EL-DG-00015
SG-100D1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00006
DC UPS – GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS	1724000372-EL-DA-00003
DC UPS – BATTERY LAYOUT AND INTERCONNECTING DIAGRAM	1724000372-EL-DG-00010
B-100 - GENERAL ARRANGEMENT DRAWINGS - E&I SHELTER	1724000049-AR-DA-00014

KEY PLAN



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20104**

REV.:	DATE:	SIGNATURE:
2_A	08/08/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/05/2024	FMO	LMA/AMA	LMA/MDO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	10/11/2023	DSF	CB/AMA	DYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

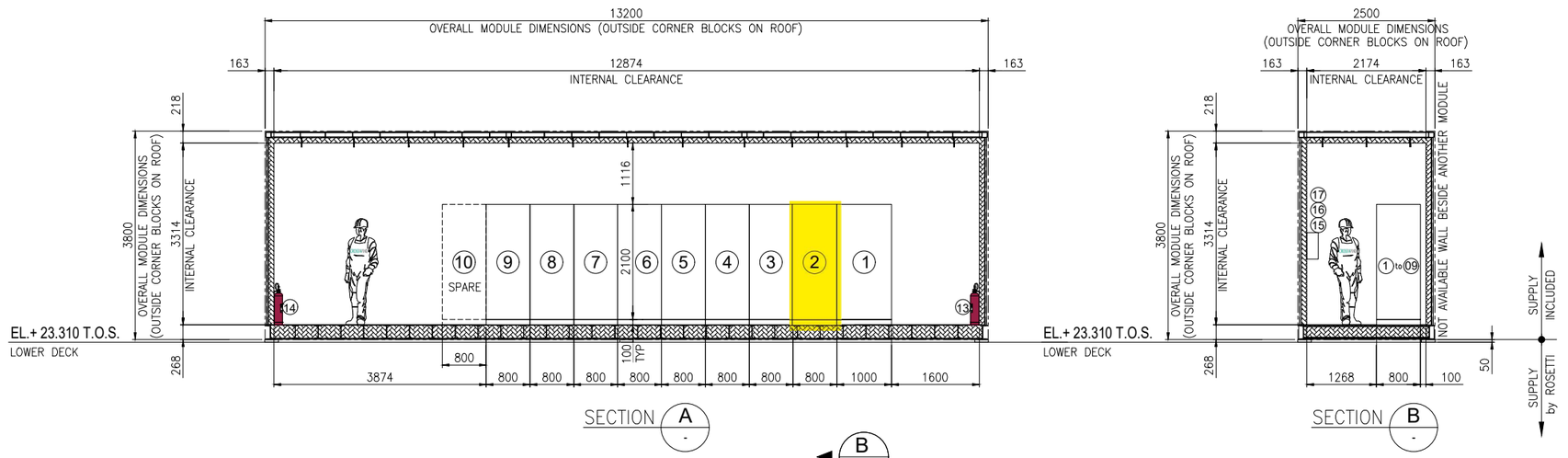
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
HV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN GPA	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 27/05/2024
A1	DRAWING NO. 123A90-DDL-EL-DL-20104	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20104_REV02.dwg

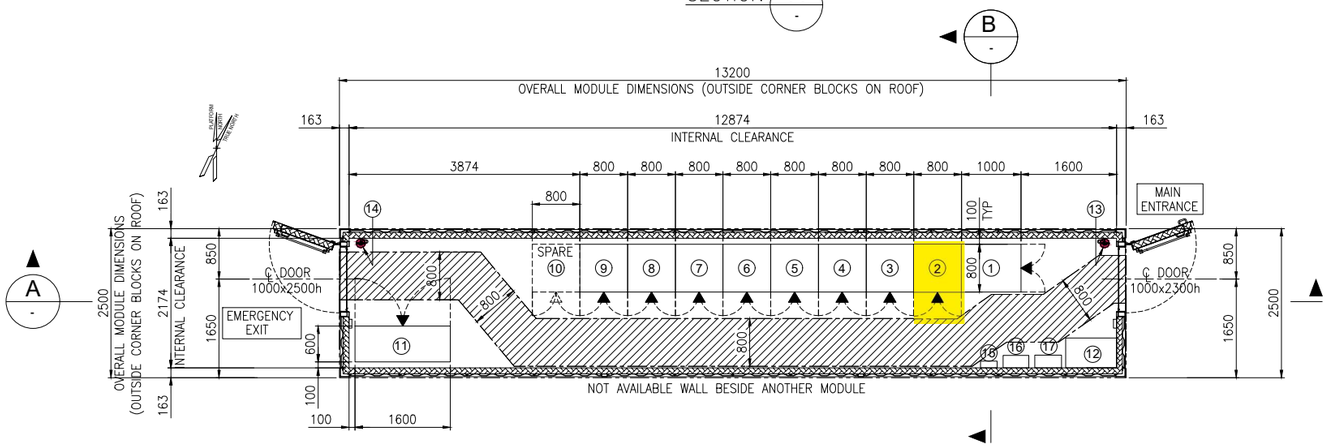
DRAWING NO. 123A90-DDL-IN-DL-40012

REV. 03



SECTION A -

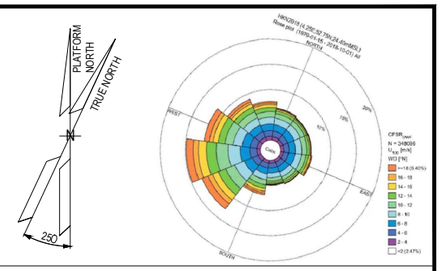
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

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2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

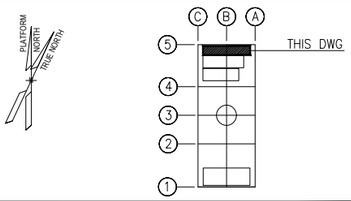
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

File Name : 123A90-DDL-IN-DL-40012 Rev.03.dwg

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

HV SWITCHROOM (B-100)

GIS LCP PANEL - CP-100E1

EMCS-FDF

SPLICE BOX

SPARE

1 2
3 4
5 6
7 8
9 10
11 12

13 14
15 16
17 18
19 20
21 22
23 24

CP-100E1/B400-NET-001.01

~~CP-100E1/B400-EMCS-001.01~~

FO12OM2,ARM,F.Ret,ORANGE,NIS

CP-100E1/B400-NET-001.02

~~CP-100E1/B400-EMCS-001.02~~

FO12OM2,ARM,F.Ret,ORANGE,NIS

I&T EQUIPMENT ROOM (ITER B400)

~~EMCS SYSTEM - B400-EMCS-001~~

NETWORK SYSTEM - B400-NET-001

PATCH PANEL

FOPP-002

<01>

PORT - 1
PORT - 2
PORT - 3
PORT - 4
PORT - 5
PORT - 6
PORT - 7
PORT - 8
PORT - 9
PORT - 10
PORT - 11
PORT - 12

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_I	29/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
COMMUNICATION – F.O.

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO. 123A90-DDL-IN-DG-40015	SHEET 041	REV. 01

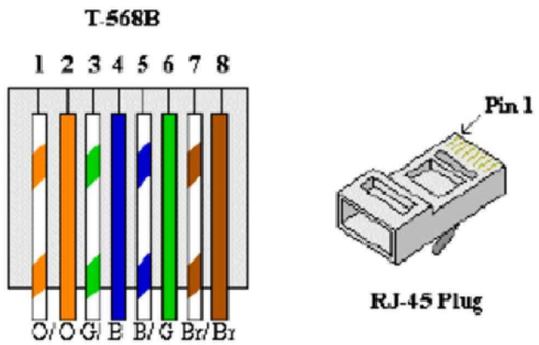
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DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



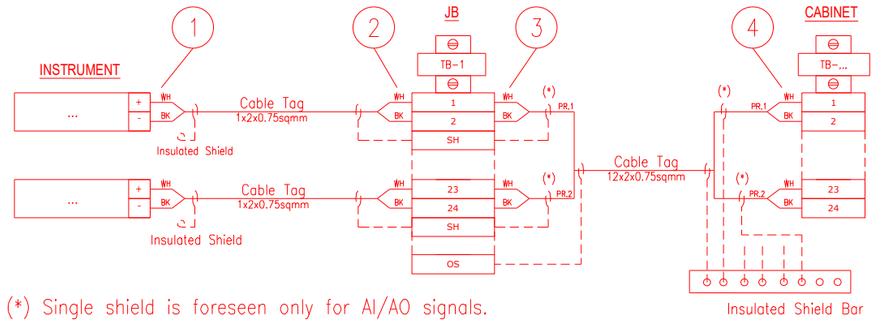
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

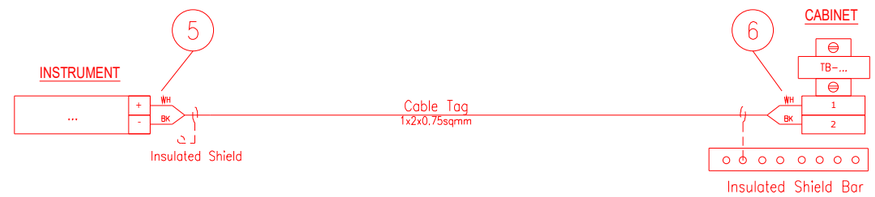
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

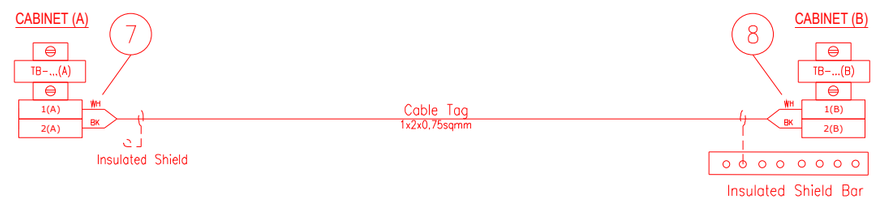
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_I	29/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
CP-100E1/B400-NET-001.02	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						CP-100E1	66 kV GIS Local Control Panel	Lower Deck (B-100)	B400-NET-001	Network Cabinet / EMCS System	Lower Deck (B-400)	TELCV01-12FO	Fibre Optic Cable 12X50/125 OM2 - Orange	M20S	T2_M20S_Double			n.a.				I-MCT-102 / B-100-SEC-1D / B-100-SEC-1C / B-100-SEC-1A / L-SEC-17 / L-SEC-1N / L-SEC-1M / L-SEC-1L / L-SEC-1J / L-SEC-1I / L-SEC-1H / L-SEC-1G / L-SEC-1F / L-SEC-1E / L-SEC-1D / L-SEC-1C / L-SEC-1B / L-SEC-1A / B-400-SEC-3A / B-400-SEC-2I / B-400-SEC-2G / B-400-SEC-2E / B-400-SEC-2C / B-400-SEC-3B / I-MCT-402

1	GENERAL	Cable Code	FO12 OM2
2		Drum Details.	TELCV01-12FO
3		Number of Drums	1
4		Ambient temperature min	Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C
5		Vendor Cable Code	(*)
6		Service	Communication cables - Fiber Optic type
7		Cable Description	FO-LSZH-SWB-LSZH
8		Cable Installation	Above Ground
9		Cable Type / Conductor size	12 Cores, Multi Mode OM2 - 50/125 µm
10		Cable Length [mt]	200
11		Cable Diameter (min / nor / max) - OVER ALL	8.5mm
12		Cable diameter(under armour)	
13		Fire Performance	Flame Retardant as per IEC 60332
14		Hazardous Area Classification	Zone-2, Gr IIC (II-B + H2), T1
15	FIBER	Mode	Multi Mode OS2 50/125 µm
16		Total No. of Cores	12
17		Size (Corer / Cladding / Buffer)	50/125 µm
18		Fiber Optic Cores Identification	According to TIA-598
19		Index Profile	Gradual
20		Number of Fiber Strands per tube	12
21		Standards	IEC 60793-1&2, IEC60794, IEC 61034-2, IEC 61280-4-1-9, TIA-526-14-B (by ITU-T G.651.1)
22		Attenuation	
23	LOOSE TUBE & FILLER	Material	
24		Colour	According to IEC 60304
25		Loose Tube Diameter	
26		Loose Tube Gel	Thixotropic Filling Gel (*)
27		Number of Loose Tube Gel	1
28		Number of Dummy Fillers	0
29		Filler Color	
30	SZ CORE	Sequence on elements in core	
31		Water Blocking Compound	Thixotropic Filling Gel (*)
32		Peripheral Strength Member	Glass Yarn over the SZ Core (*)
33		Core Wrapping	
34	CONSTRUCTION	Inner Sheath Material / Colour	Note 8
35		Inner Sheath Rip Cord	One rip cord inner sheath (*)
36		Inner Sheath Thickness	
37		Outer Sheath Material / Colour	Note 7 / ORANGE
38		Outer Sheath Rip Cord	One rip cord under the outer sheath (*)
39		Outer Sheath Thickness	1.5mm
40		Bending Radius	20xO.D During Installation, Permanent 10xO.D.
41		Minimum Laying Temperature	-40 °C
42		Strength Member Type / Diameter	FRP ROD / 2.8mm
		Armour	Steel Wire braiding (SWB)
43		Weight	100 Kg/Km
44	TESTS AND CERTIFICATES	Certificate of Conformity	Required
45		Material certification	Required
46		Test Report / Certification	Required
48			
49			
50	MISC	Manufacturer	FLEI
51		MR number	123A90-DDL-IN-MR-40065
52		PO number	1724001170
53			
54			

#	NOTE:

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ITEM	Tag	HNA6/B400-NET-001	: COMMUNICATION / NETWORK CABINET		Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	86-20	: Fibre Optic Links		Module	TP/LD_B-400	
TASK	code	C10004803	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Telecom	Form	CIX11	Fibre Optic/Patch Panel

CABLE DATA

Type	FO-LSZH-SWB-LSZH	Cores/Size mm²	FO12 OS2	Color	YELLOW
From	HNA6	To	B400-NET-001		

1	Check Fiber optical cable features is adapted and according to the project (type, cores number, structure, Fire resistance, etc..)	OK
2	Check cable physical integrity	OK
3	Check cable routing against drawings (segregation, distance, …)	OK
4	Check cable gland suit for cable type	OK
5	Check that Fibre Optic cable and core are correctly tagged against drawings	PL
6	Check correct interconnection as per wiring	OK
7	Check fibres are terminated correctly and secured.	OK
8	Check splicing box and protection adapted to environmental conditions	OK
9	Check End to End link is terminated in Optical Distribution Frame according to type of connectors (SC, ST, etc…).	OK
10	Check that minimum bending radius of fibre optic cables is met in cabinet/patch panel.	OK
11	Check visual installation complete.	Note
12	If required produce Red Line Mark Up for "AS BUILT"	

Comments: Note 11: Cable installation and connection will be completed during OFFSHORE phase. (See Ref. task C10004356)

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-02-03	2025-02-04	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-02-03T13:59:37.971Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-02-04T15:55:24.331Z	

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
001	PASS	General Fiber RL = 35 dB	76.4 m	N/A	31-01-2025 13:16
002	PASS	General Fiber RL = 35 dB	76.4 m	N/A	31-01-2025 13:17
003	PASS	General Fiber RL = 35 dB	76.5 m	N/A	31-01-2025 13:18
004	PASS	General Fiber RL = 35 dB	76.5 m	N/A	31-01-2025 13:18
005	PASS	General Fiber RL = 35 dB	76.5 m	N/A	31-01-2025 13:18
006	PASS	General Fiber RL = 35 dB	76.5 m	N/A	31-01-2025 13:19
007	PASS	General Fiber RL = 35 dB	78.4 m	N/A	31-01-2025 13:14
008	PASS	General Fiber RL = 35 dB	76.4 m	N/A	31-01-2025 13:15
009	PASS	General Fiber RL = 35 dB	76.4 m	N/A	31-01-2025 13:20
010	PASS	General Fiber RL = 35 dB	76.1 m	N/A	31-01-2025 13:20
011	PASS	General Fiber RL = 35 dB	76.4 m	N/A	31-01-2025 13:21
012	PASS	General Fiber RL = 35 dB	76.3 m	N/A	31-01-2025 13:21

Total Length:	918.8 m
Number of Reports:	12
Number of Passing Reports:	12
Number of Failing Reports:	0
Number of Warning Reports:	0
Documentation Only:	0

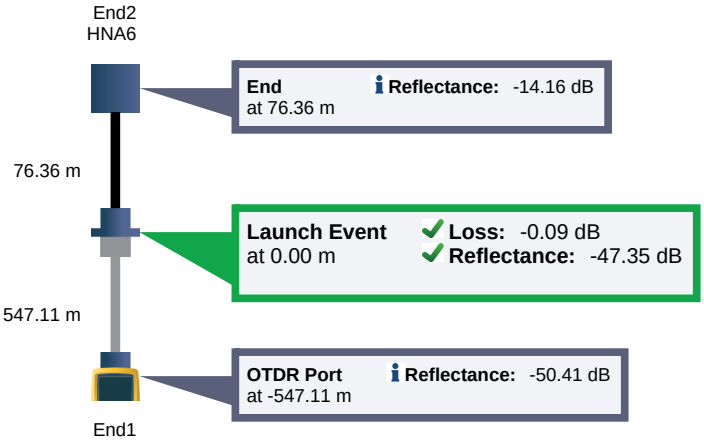
Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 13:16:42
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.36 m
Overall Loss: -0.08 dB

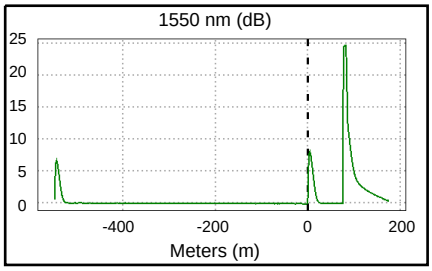


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:05:35
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.36	
Overall Loss (dB)		-0.08	
ORL (dB)		46.48	
Events			
76.36 m End			
Reflectance (dB)		-14.16	
Attn Coeff (dB/km)		0.10	
0.00 m Launch Event	PASS		
Loss (dB)		-0.09	0.75
Reflectance (dB)		-47.35	-35.00
Attn Coeff (dB/km)		0.21	

Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 13:16:42
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

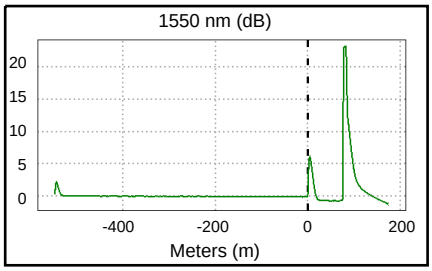
Measurements	Status	1550 nm Value	Limit
Events			
-547.11 m OTDR Port			
Reflectance (dB)		-50.41	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:16:42
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.36	
Overall Loss (dB)		0.62	
ORL (dB)		49.79	
Events			
76.36 m End			
Reflectance (dB)		-15.71	
Attn Coeff (dB/km)		0.40	
0.00 m Launch Event	PASS		
Loss (dB)		0.58	0.75
Reflectance (dB)		-51.47	-35.00
Attn Coeff (dB/km)		0.18	
-547.11 m OTDR Port			
Reflectance (dB)		-61.31	

ROSETTI MARINO

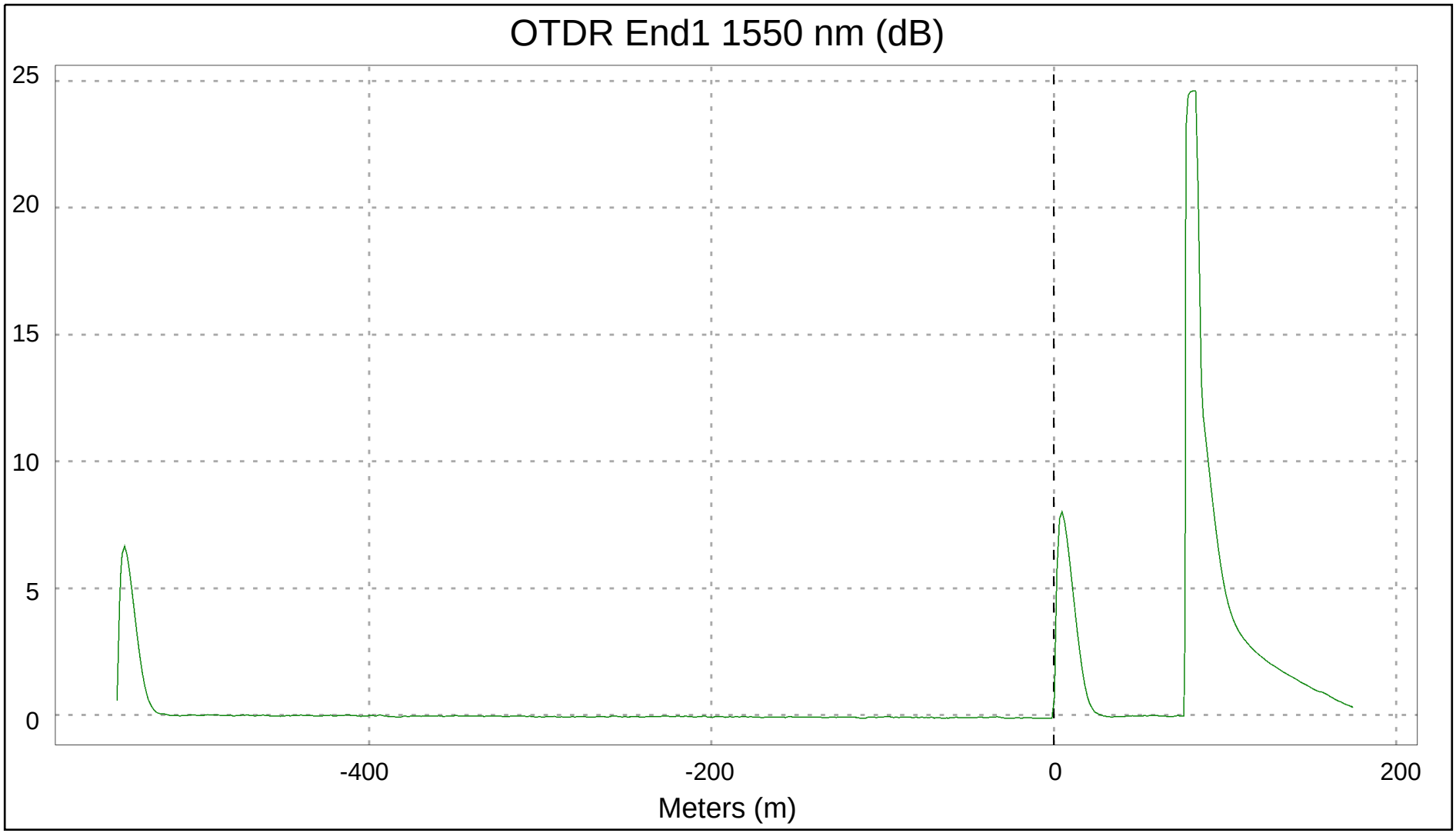
Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 13:16:42
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

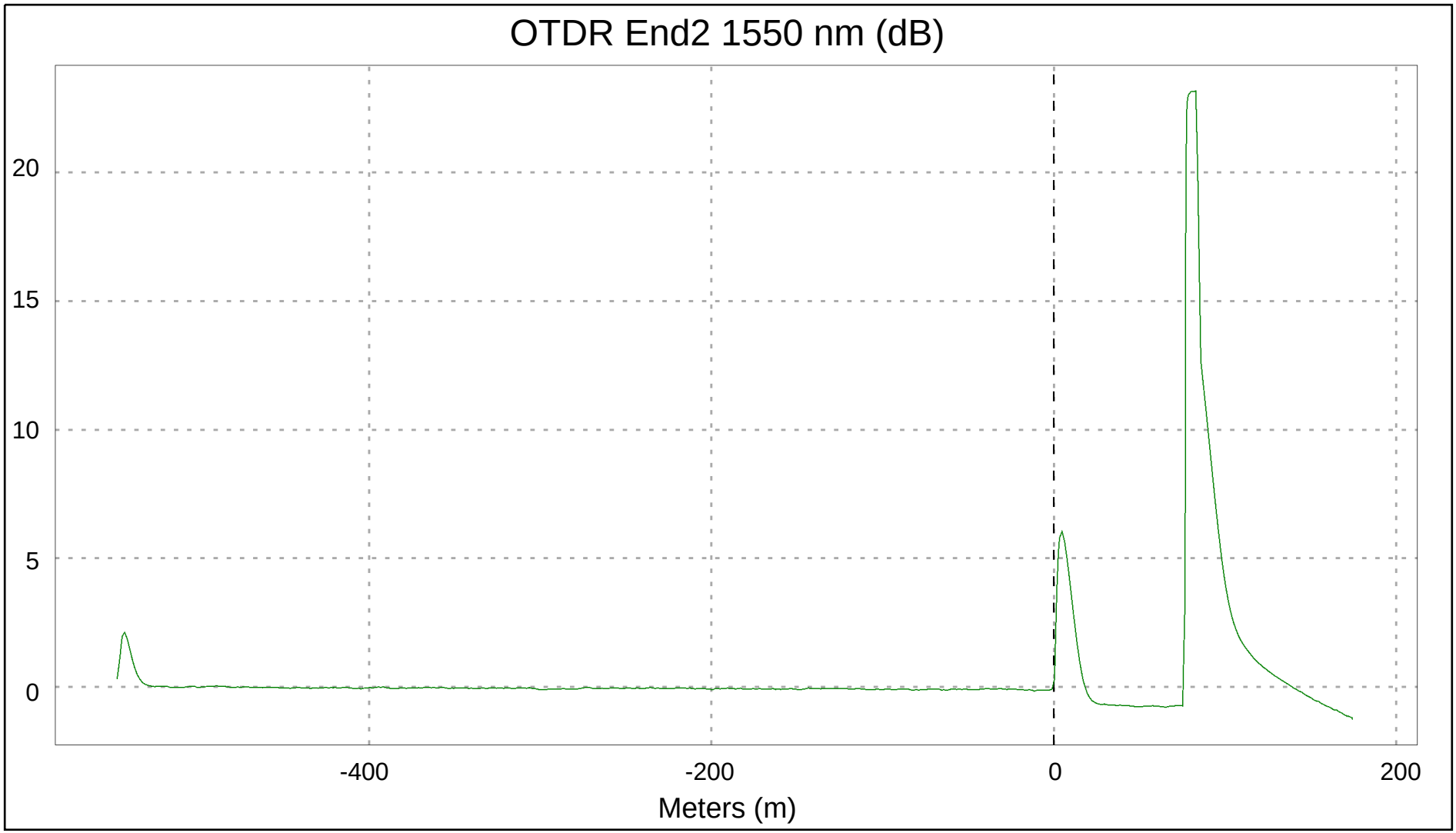
Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 13:16:42
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

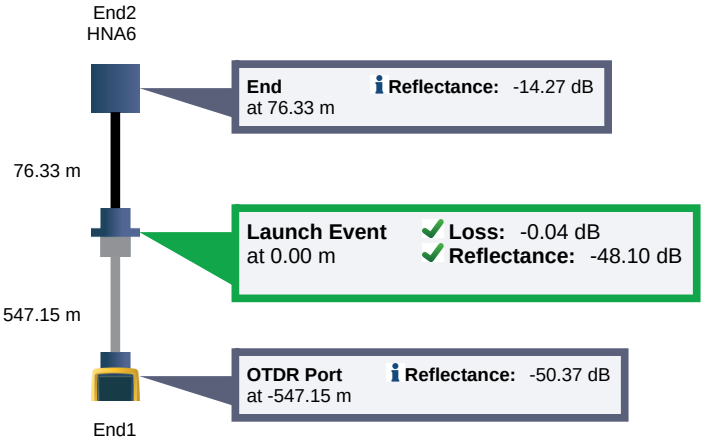
Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 13:17:26
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.33 m
Overall Loss: 0.07 dB

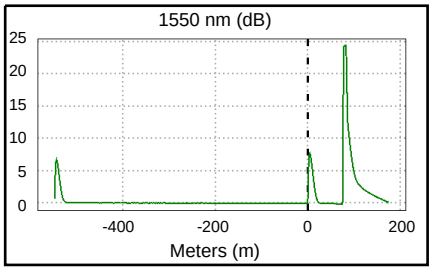


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:06:02
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.15 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.33	
Overall Loss (dB)		0.07	
ORL (dB)		47.10	
Events			
76.33 m End			
Reflectance (dB)		-14.27	
Attn Coeff (dB/km)		1.42	
0.00 m Launch Event	PASS		
Loss (dB)		-0.04	0.75
Reflectance (dB)		-48.10	-35.00
Attn Coeff (dB/km)		0.20	

Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 13:17:26
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

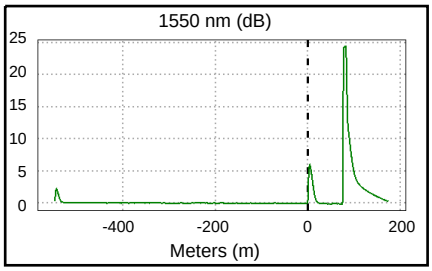
Measurements	Status	1550 nm Value	Limit
Events			
-547.15 m OTDR Port			
Reflectance (dB)		-50.37	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:17:26
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.36	
Overall Loss (dB)		0.09	
ORL (dB)		49.64	
Events			
76.36 m End			
Reflectance (dB)		-14.23	
Attn Coeff (dB/km)		0.93	
0.00 m Launch Event	PASS		
Loss (dB)		0.02	0.75
Reflectance (dB)		-51.85	-35.00
Attn Coeff (dB/km)		0.17	
-547.11 m OTDR Port			
Reflectance (dB)		-61.23	

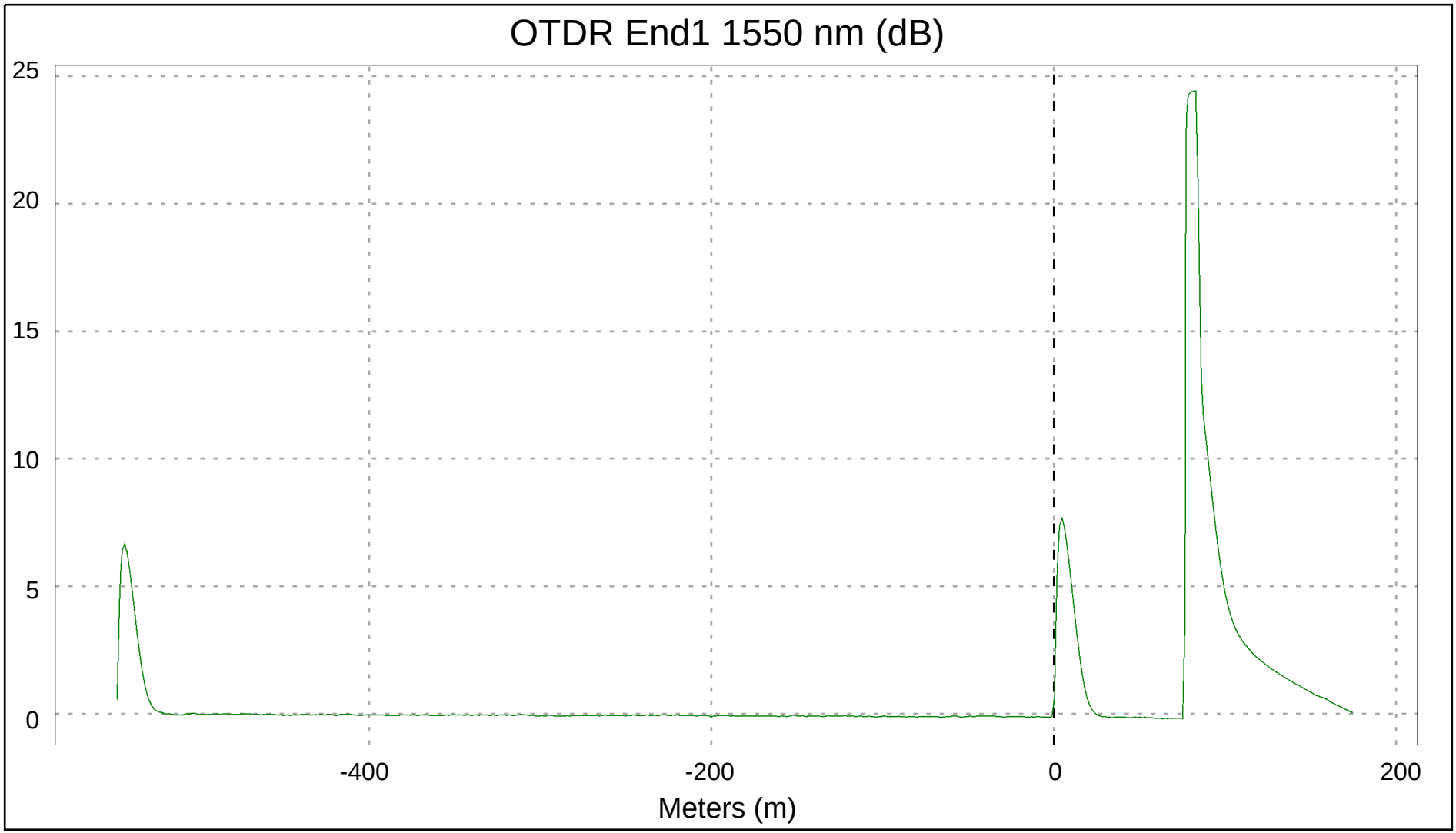
Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 13:17:26
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

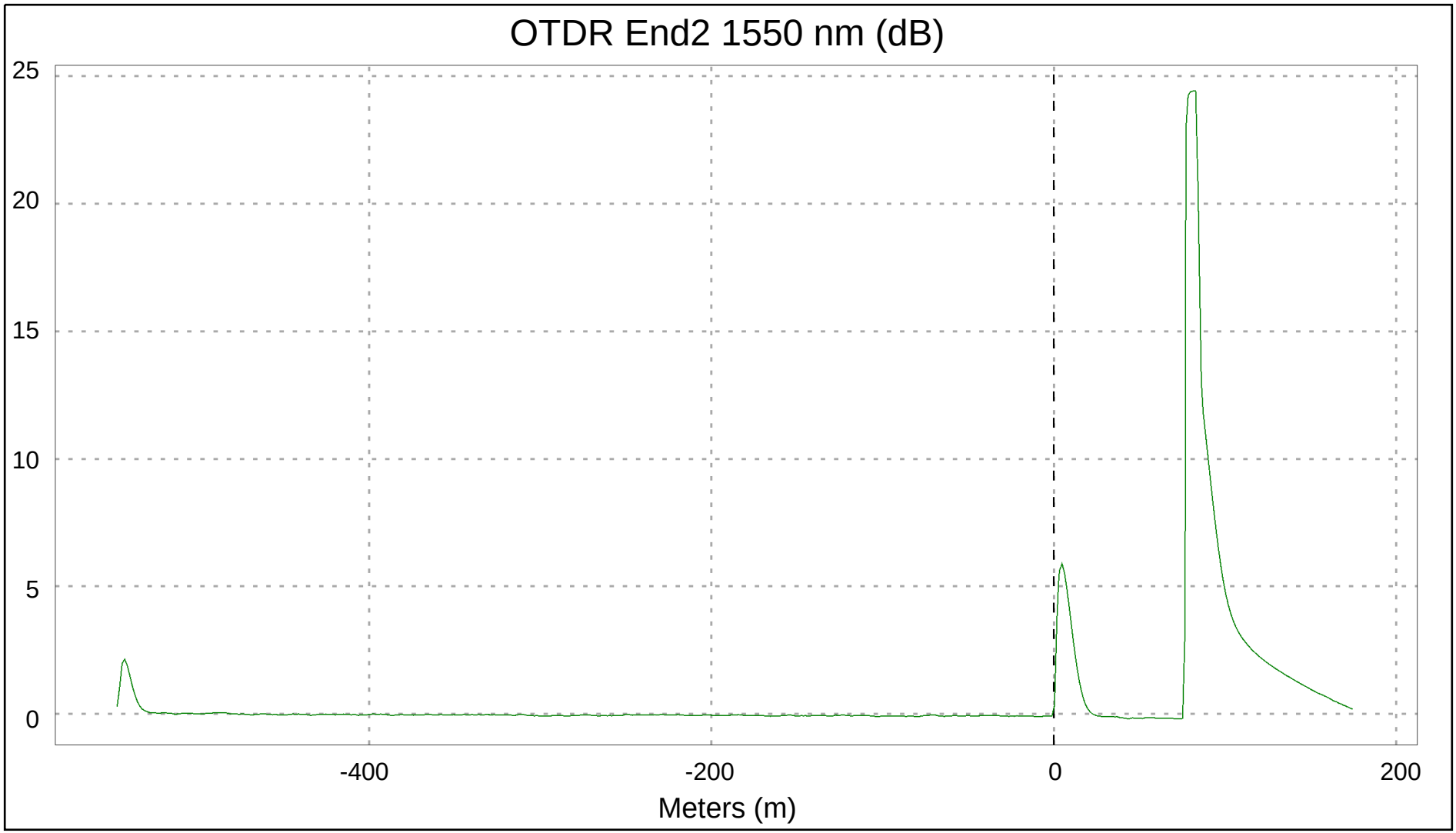
Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 13:17:26
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

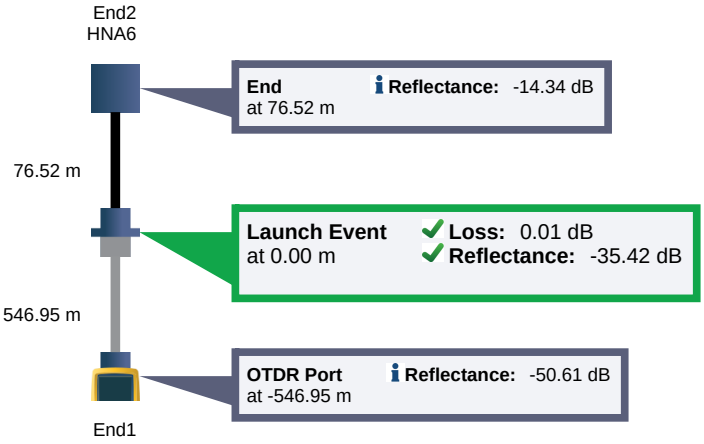
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 13:18:00
n = 1.468000
End2 Name: HNA6
Cable Type: OS2 Singlemode
Backscatter Coefficient: -82.0dB (1550 nm)

OTDR End1 EventMap

Fiber Length: 76.52 m
Overall Loss: 0.01 dB

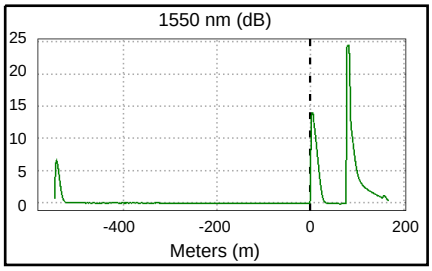


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:00:51
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 546.95 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	714 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	2 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.52	
Overall Loss (dB)		0.01	
ORL (dB)		35.54	
Events			
76.52 m End			
Reflectance (dB)		-14.34	
Attn Coeff (dB/km)		0.00	
0.00 m Launch Event	PASS		
Loss (dB)		0.01	0.75
Reflectance (dB)		-35.42	-35.00
Attn Coeff (dB/km)		0.19	

Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 13:18:00
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

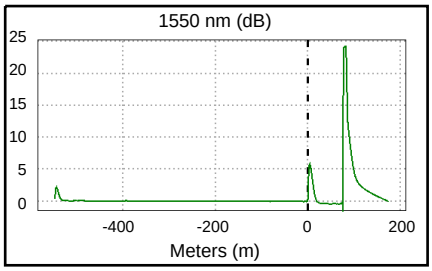
Measurements	Status	1550 nm Value	Limit
Events			
-546.95 m OTDR Port Reflectance (dB)		-50.61	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:18:00
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.08 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.39	
Overall Loss (dB)		0.37	
ORL (dB)		49.97	
Events			
76.39 m End			
Reflectance (dB)		-14.05	
Attn Coeff (dB/km)		0.30	
0.00 m Launch Event	PASS		
Loss (dB)		0.35	0.75
Reflectance (dB)		-52.05	-35.00
Attn Coeff (dB/km)		0.19	
-547.08 m OTDR Port			
Reflectance (dB)		-61.24	

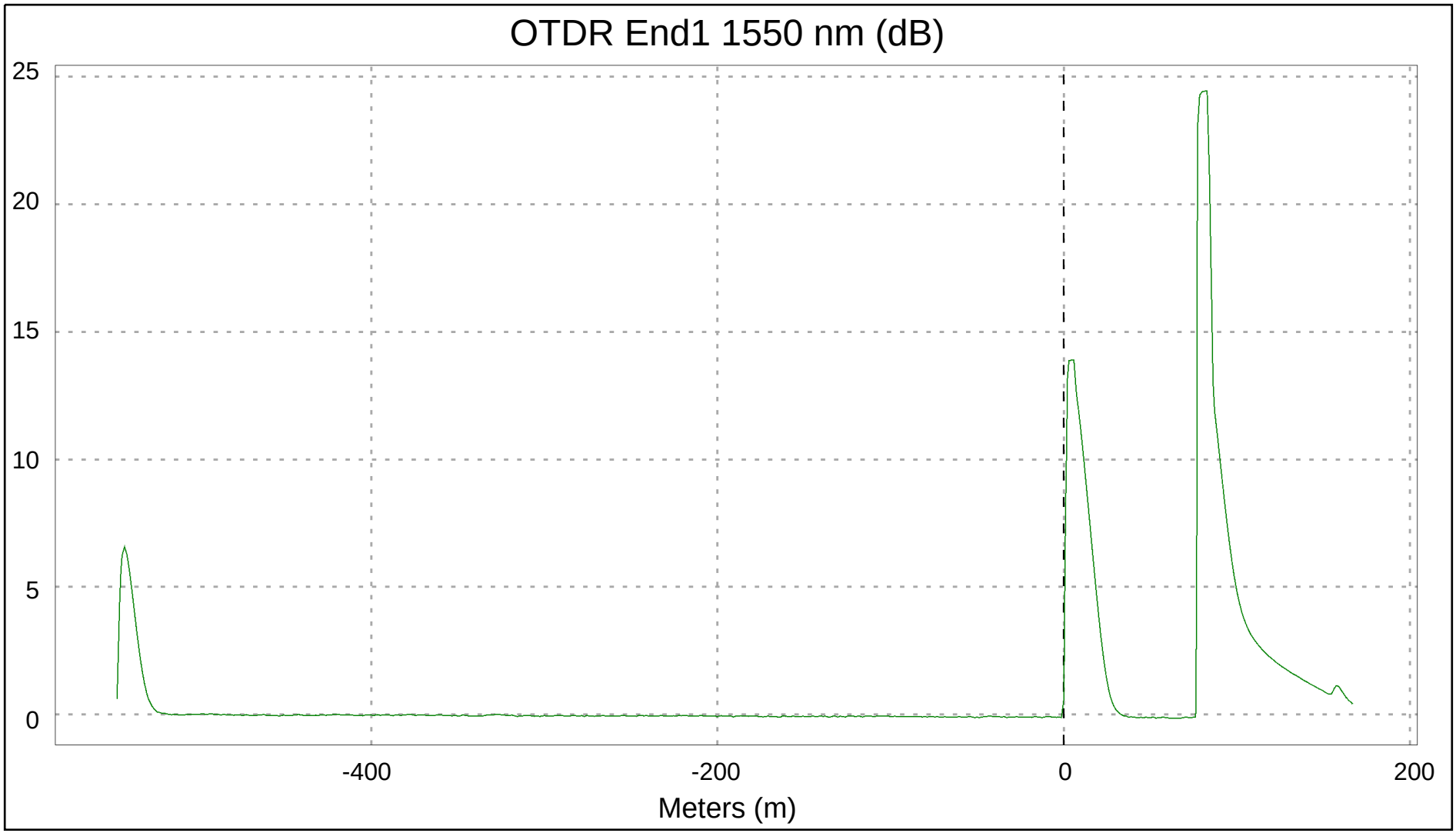
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 13:18:00
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

ROSETTI MARINO

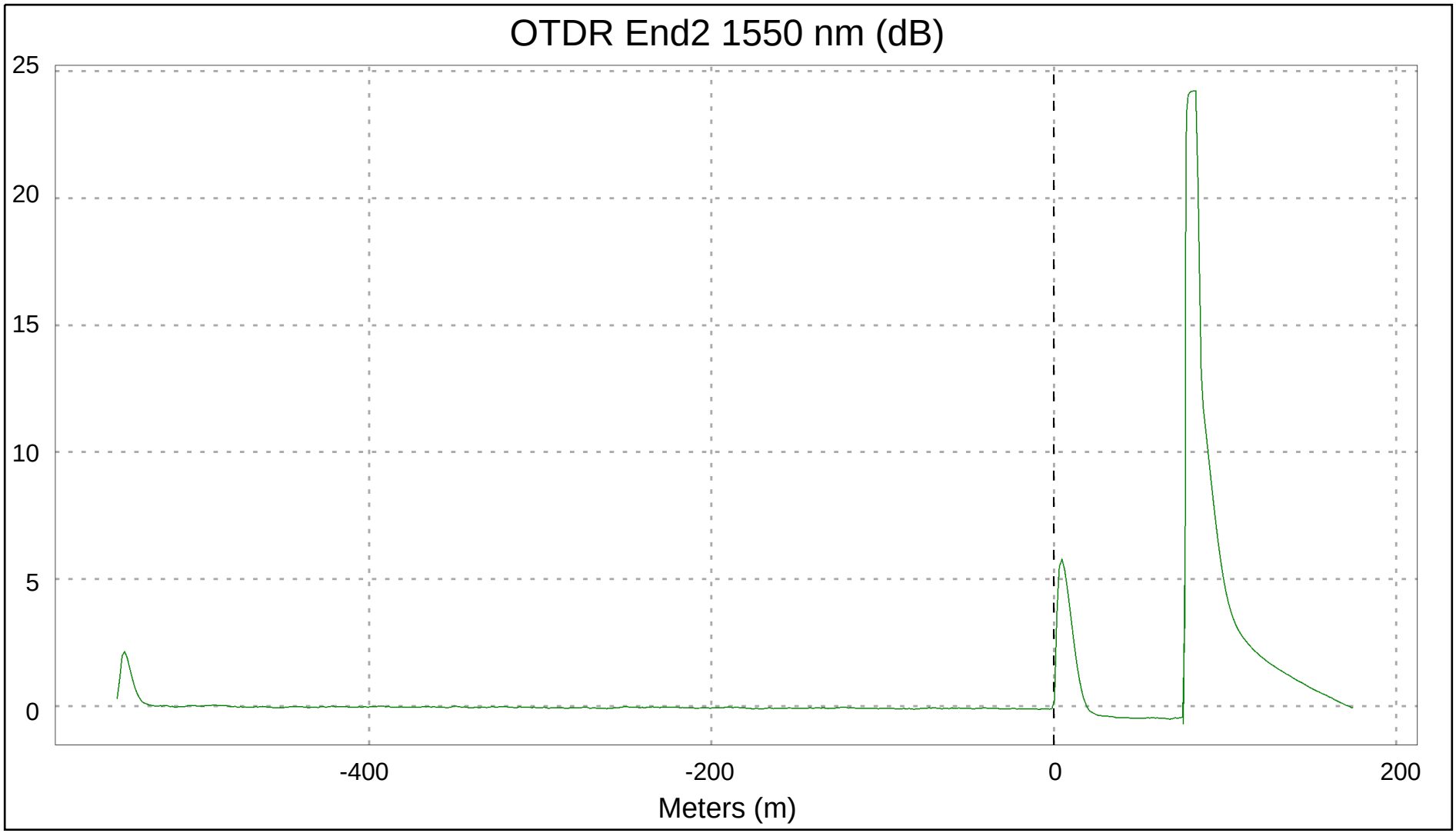
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 13:18:00
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

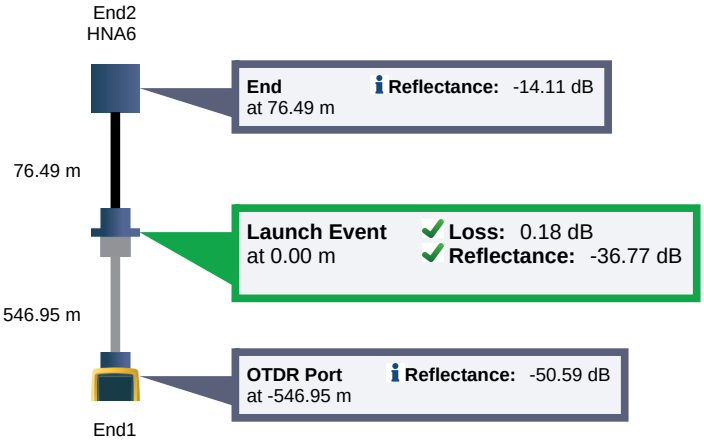
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 13:18:26
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.49 m
Overall Loss: 0.20 dB

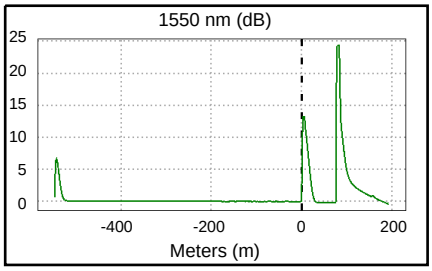


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:01:17
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 546.95 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	739 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.49	
Overall Loss (dB)		0.20	
ORL (dB)		36.99	
Events			
76.49 m End			
Reflectance (dB)		-14.11	
Attn Coeff (dB/km)		0.34	
0.00 m Launch Event	PASS		
Loss (dB)		0.18	0.75
Reflectance (dB)		-36.77	-35.00
Attn Coeff (dB/km)		0.21	

Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 13:18:26
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

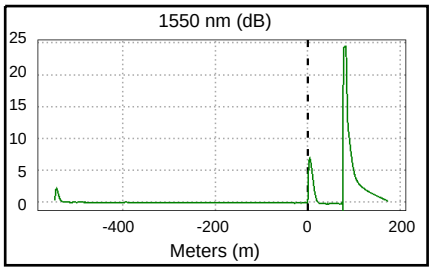
Measurements	Status	1550 nm Value	Limit
Events			
-546.95 m OTDR Port Reflectance (dB)		-50.59	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:18:26
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.08 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.36	
Overall Loss (dB)		0.14	
ORL (dB)		48.32	
Events			
76.36 m End Reflectance (dB)		-14.02	
Attn Coeff (dB/km)		0.44	
0.00 m Launch Event	PASS		
Loss (dB)		0.10	0.75
Reflectance (dB)		-49.71	-35.00
Attn Coeff (dB/km)		0.19	
-547.08 m OTDR Port Reflectance (dB)		-61.18	

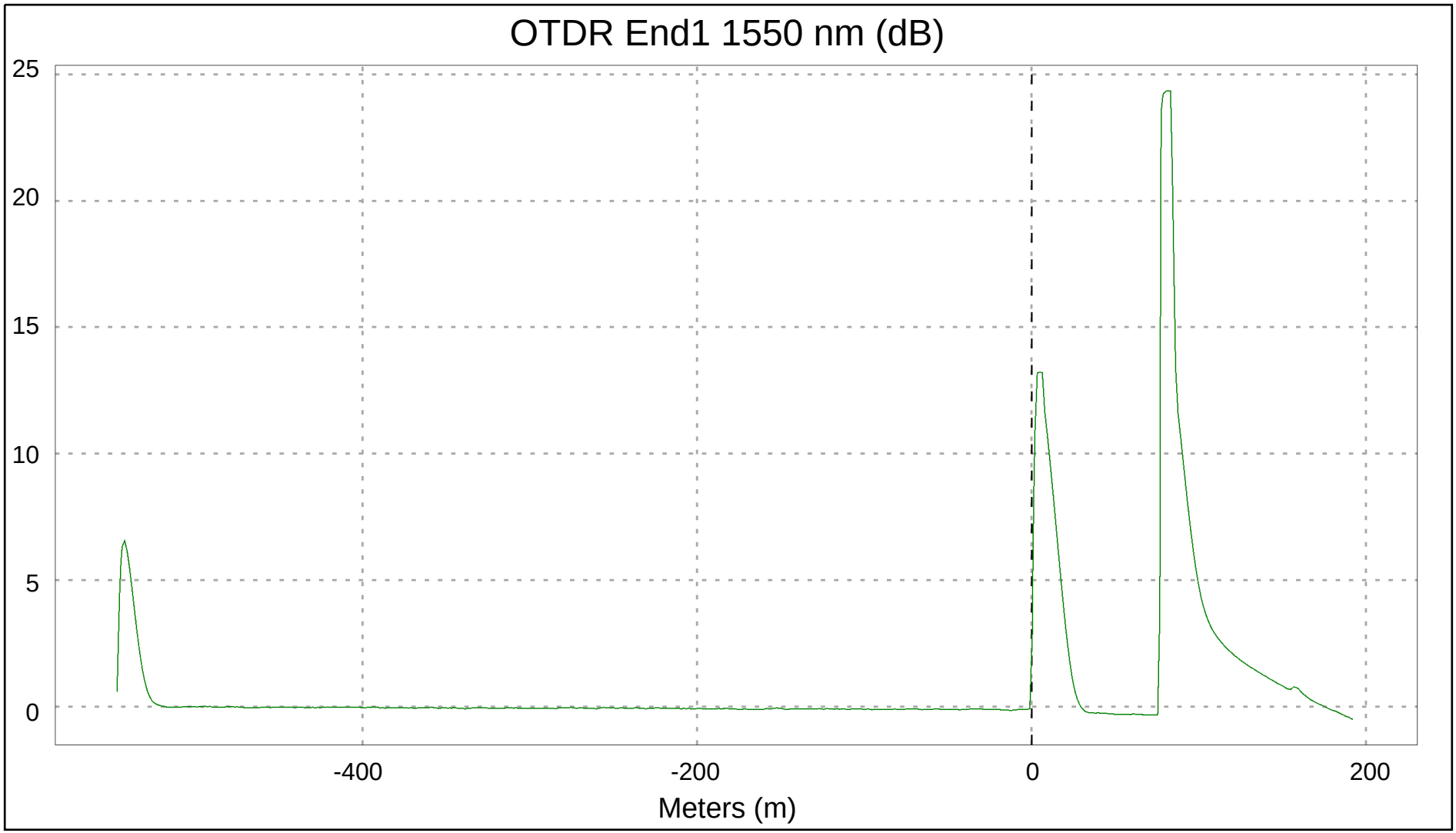
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 13:18:26
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

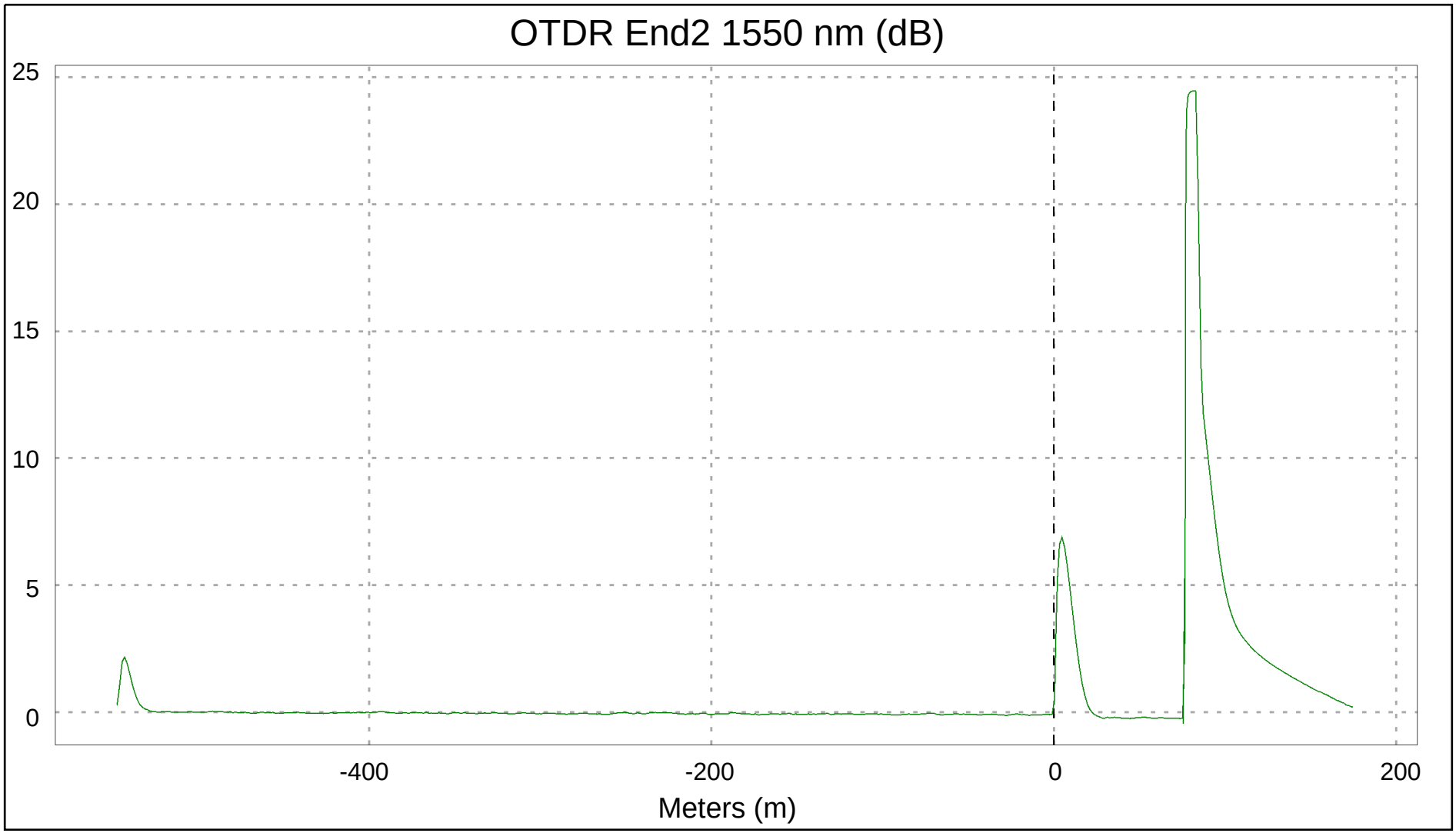
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 13:18:26
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

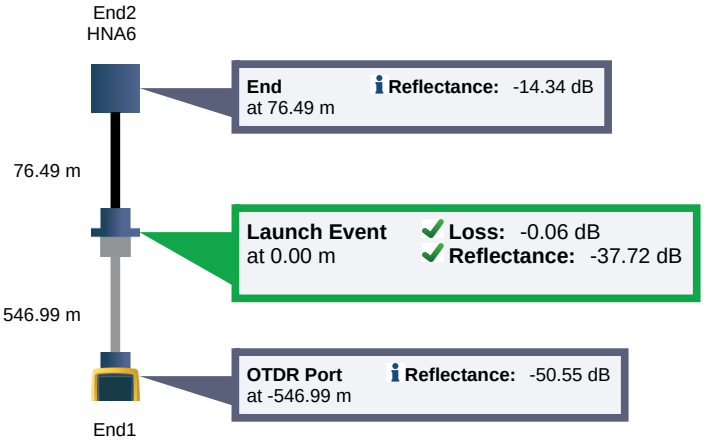
Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 13:18:54
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.49 m
Overall Loss: 0.02 dB

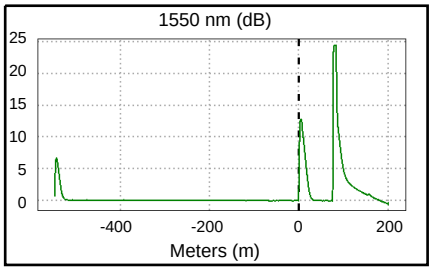


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:01:40
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 546.99 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	748 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.49	
Overall Loss (dB)		0.02	
ORL (dB)		38.03	
Events			
76.49 m End			
Reflectance (dB)		-14.34	
Attn Coeff (dB/km)		1.00	
0.00 m Launch Event	PASS		
Loss (dB)		-0.06	0.75
Reflectance (dB)		-37.72	-35.00
Attn Coeff (dB/km)		0.19	

Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 13:18:54
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

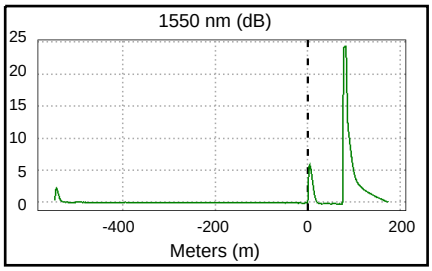
Measurements	Status	1550 nm Value	1550 nm Limit
Events			
-546.99 m OTDR Port Reflectance (dB)		-50.55	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:18:54
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.18 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.29	
Overall Loss (dB)		0.13	
ORL (dB)		49.72	
Events			
76.29 m End			
Reflectance (dB)		-14.30	
Attn Coeff (dB/km)		0.10	
0.00 m Launch Event	PASS		
Loss (dB)		0.13	0.75
Reflectance (dB)		-51.89	-35.00
Attn Coeff (dB/km)		0.20	
-547.18 m OTDR Port			
Reflectance (dB)		-61.13	

ROSETTI MARINO

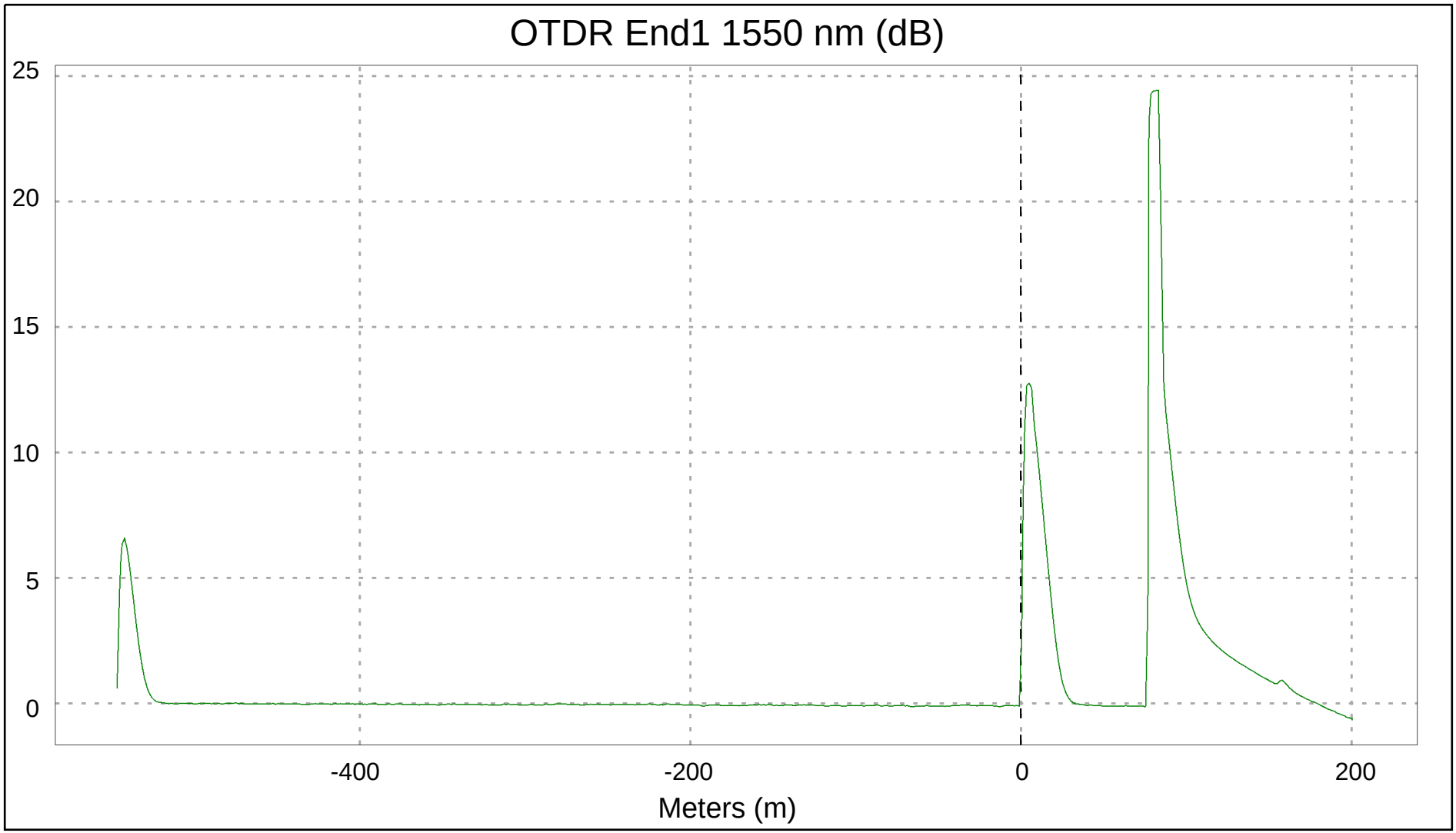
Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 13:18:54
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

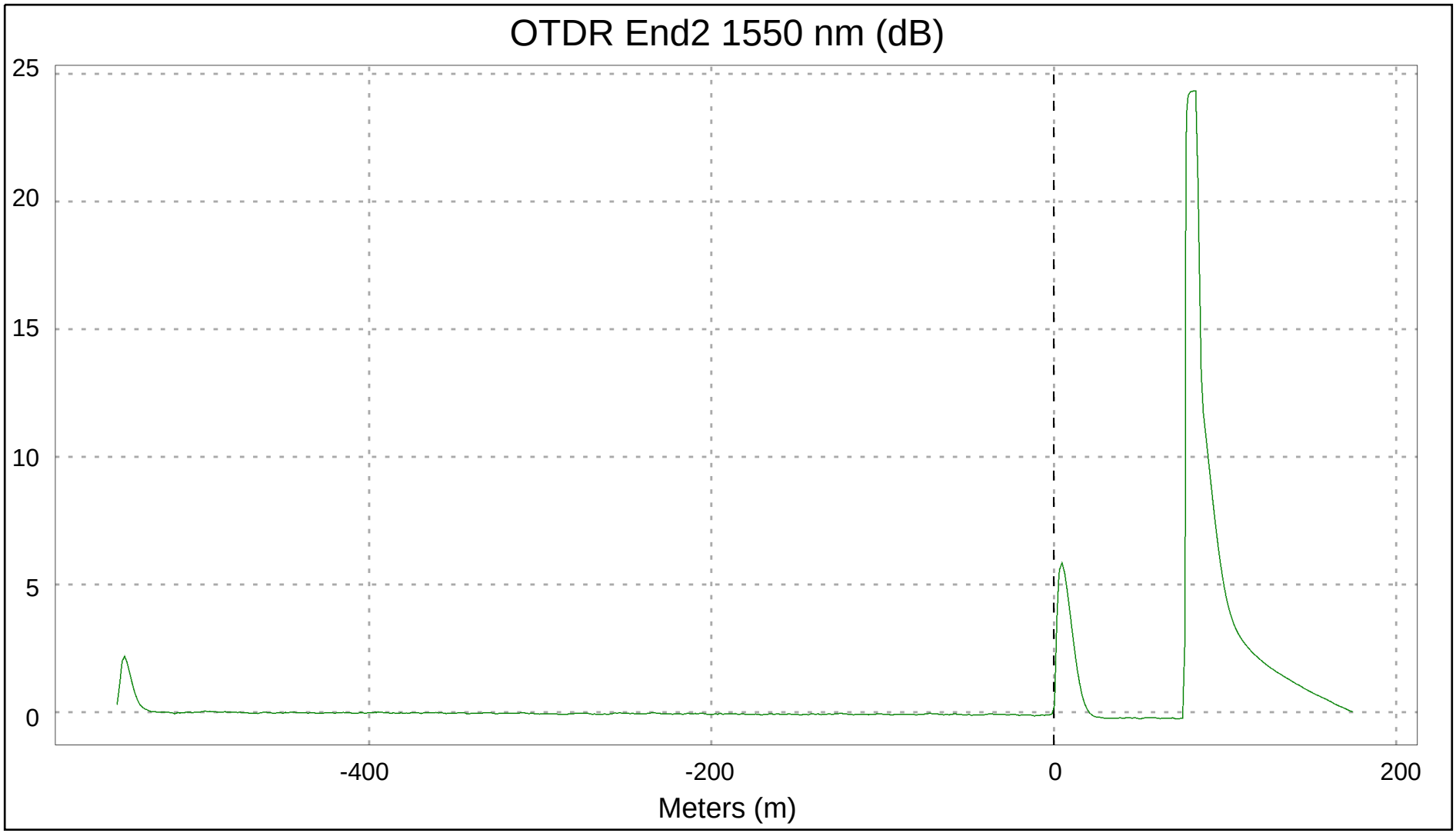
Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 13:18:54
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

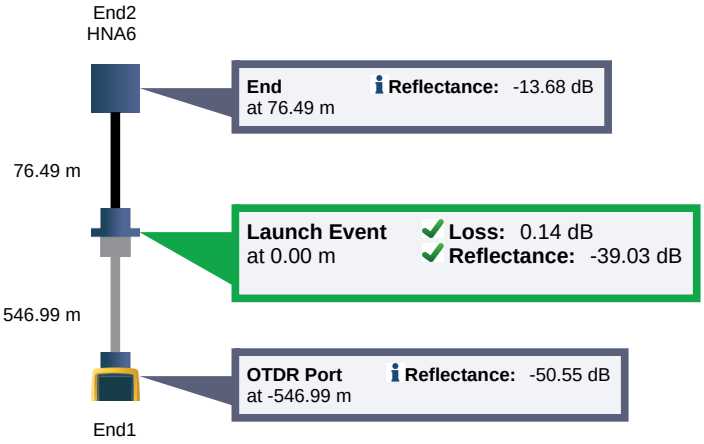
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 13:19:38
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.49 m
Overall Loss: 0.16 dB

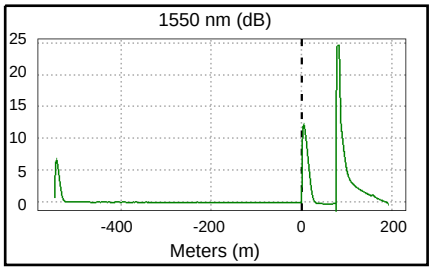


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:02:03
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 546.99 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	739 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.49	
Overall Loss (dB)		0.16	
ORL (dB)		39.02	
Events			
76.49 m End			
Reflectance (dB)		-13.68	
Attn Coeff (dB/km)		0.32	
0.00 m Launch Event	PASS		
Loss (dB)		0.14	0.75
Reflectance (dB)		-39.03	-35.00
Attn Coeff (dB/km)		0.20	

Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 13:19:38
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

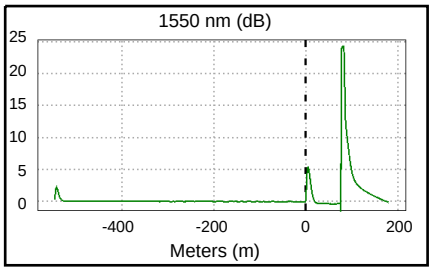
Measurements	Status	1550 nm Value	Limit
Events			
-546.99 m OTDR Port Reflectance (dB)		-50.55	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:19:38
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.21 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	727 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.26	
Overall Loss (dB)		0.34	
ORL (dB)		50.48	
Events			
76.26 m End			
Reflectance (dB)		-13.94	
Attn Coeff (dB/km)		0.70	
0.00 m Launch Event	PASS		
Loss (dB)		0.29	0.75
Reflectance (dB)		-53.01	-35.00
Attn Coeff (dB/km)		0.18	
-547.21 m OTDR Port			
Reflectance (dB)		-61.07	

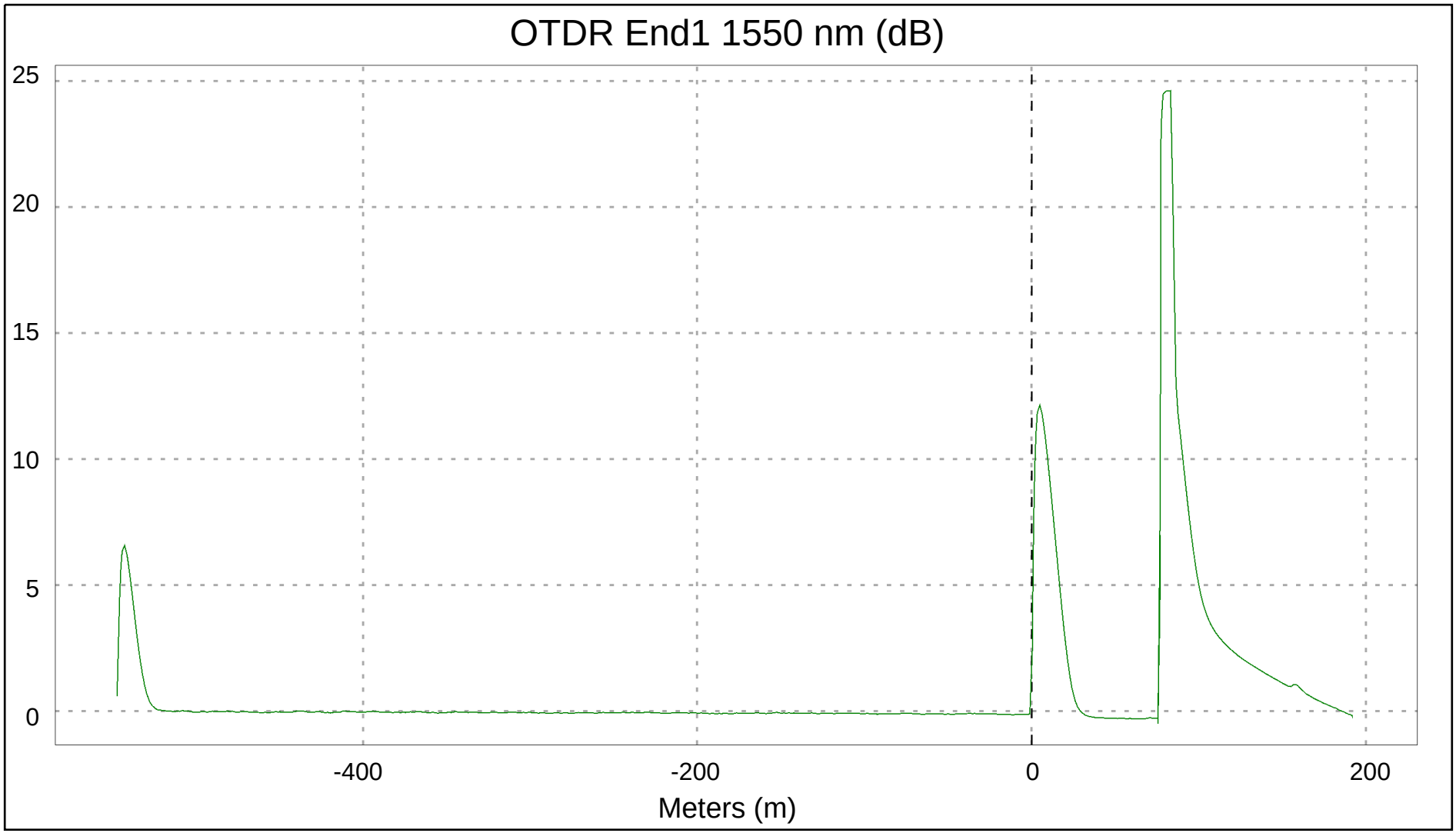
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 13:19:38
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

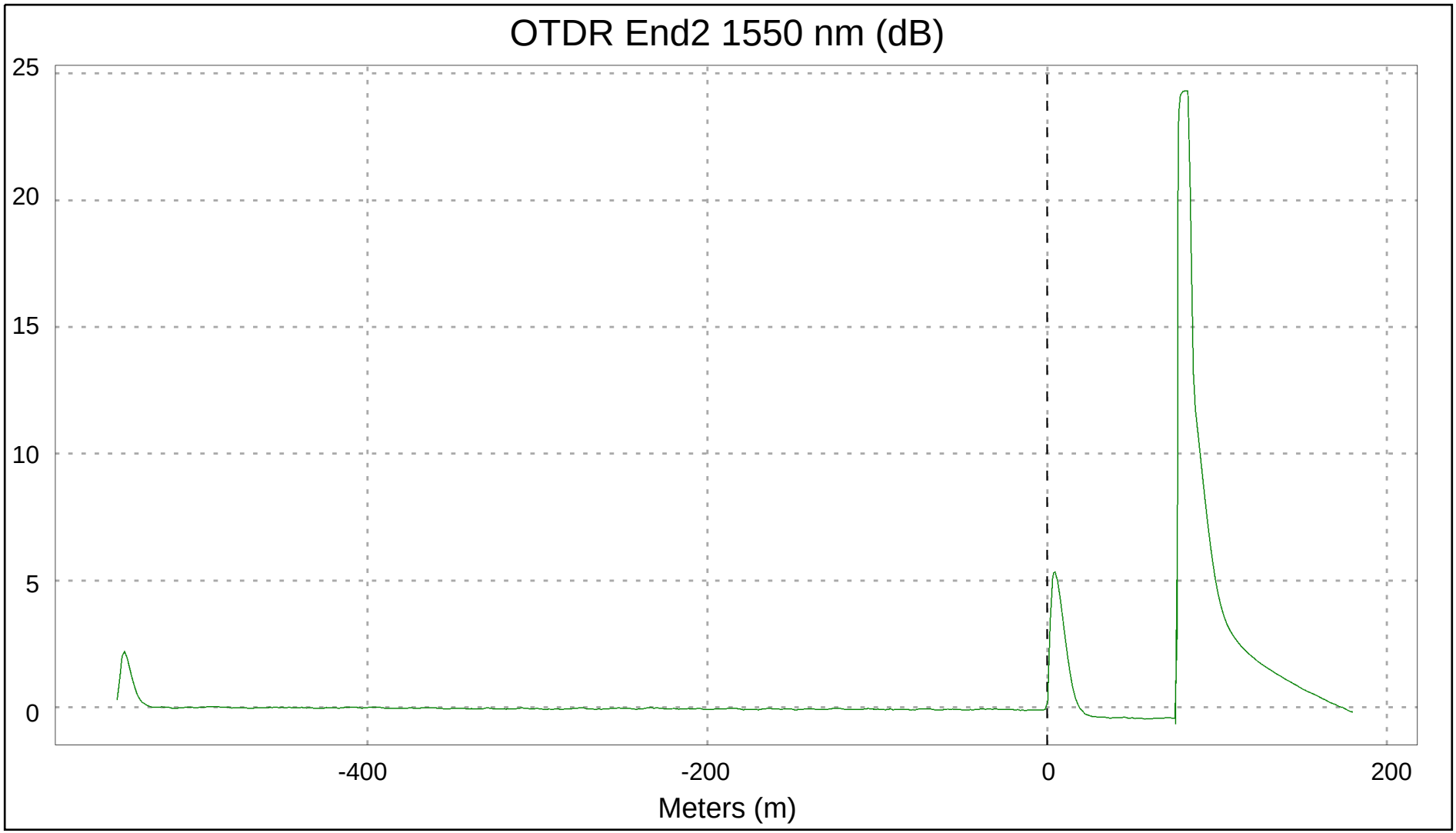
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 13:19:38
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

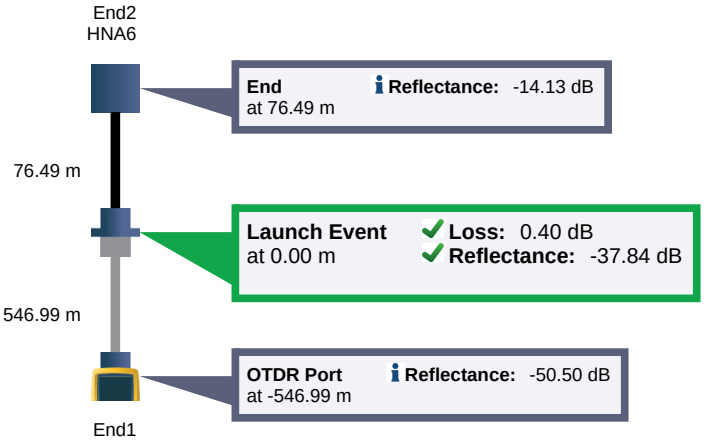
Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 13:14:56
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.49 m
Overall Loss: 0.41 dB

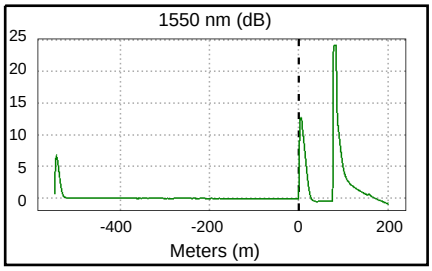


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:02:35
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 546.99 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	748 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.49	
Overall Loss (dB)		0.41	
ORL (dB)		38.17	
Events			
76.49 m End			
Reflectance (dB)		-14.13	
Attn Coeff (dB/km)		0.10	
0.00 m Launch Event	PASS		
Loss (dB)		0.40	0.75
Reflectance (dB)		-37.84	-35.00
Attn Coeff (dB/km)		0.19	

Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 13:14:56
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

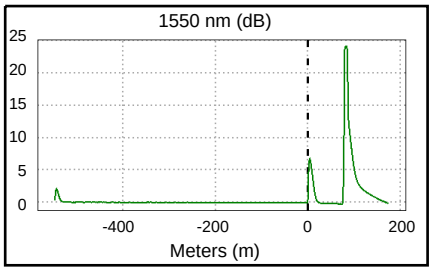
Measurements	Status	1550 nm Value	Limit
Events			
-546.99 m OTDR Port Reflectance (dB)		-50.50	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:14:56
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		78.40	
Overall Loss (dB)		0.17	
ORL (dB)		47.88	
Events			
78.40 m End			
Reflectance (dB)		-14.77	
Attn Coeff (dB/km)		1.50	
0.00 m Launch Event	PASS		
Loss (dB)		0.05	0.75
Reflectance (dB)		-50.22	-35.00
Attn Coeff (dB/km)		0.18	
-547.11 m OTDR Port			
Reflectance (dB)		-61.46	

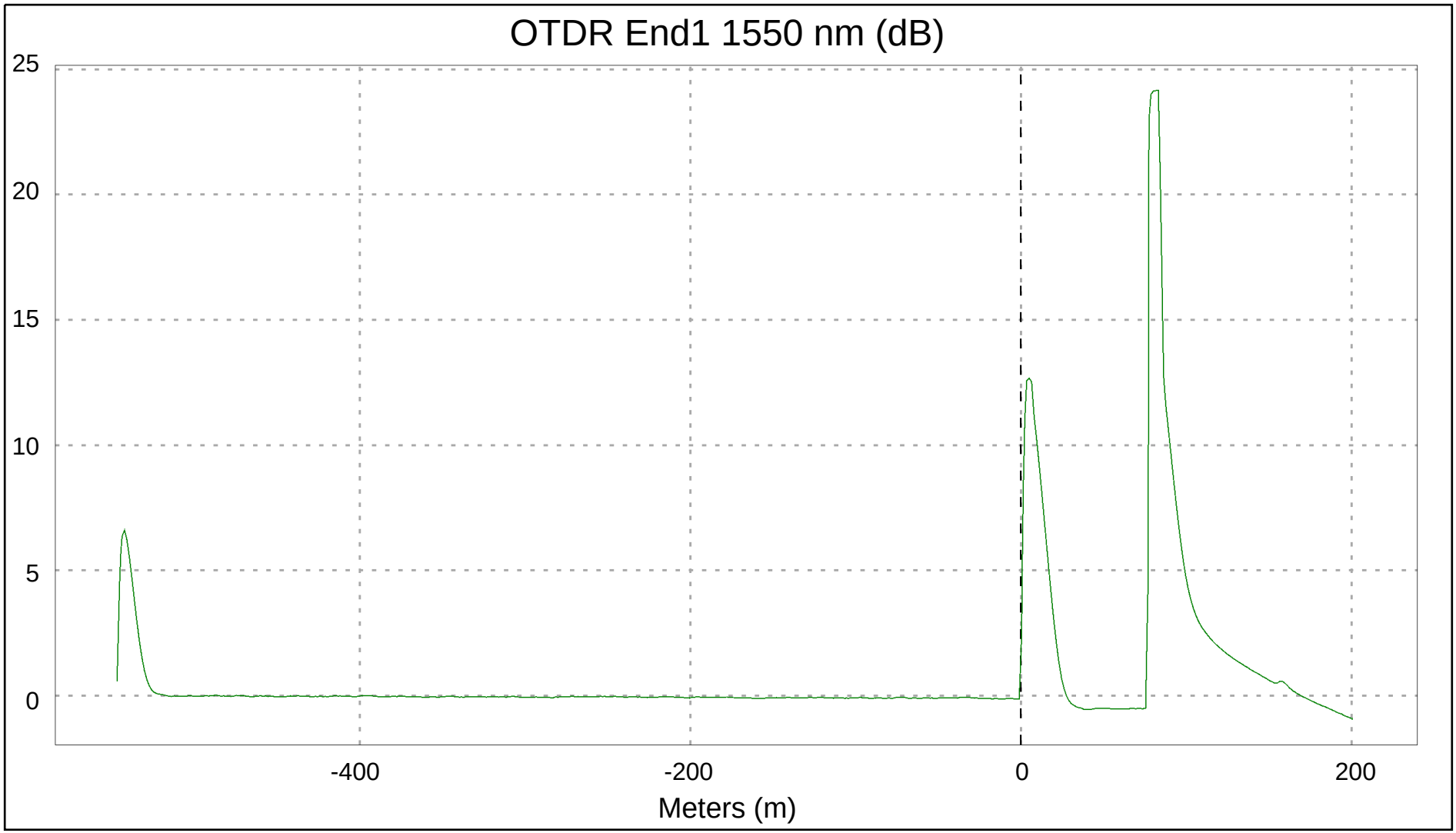
Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 13:14:56
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

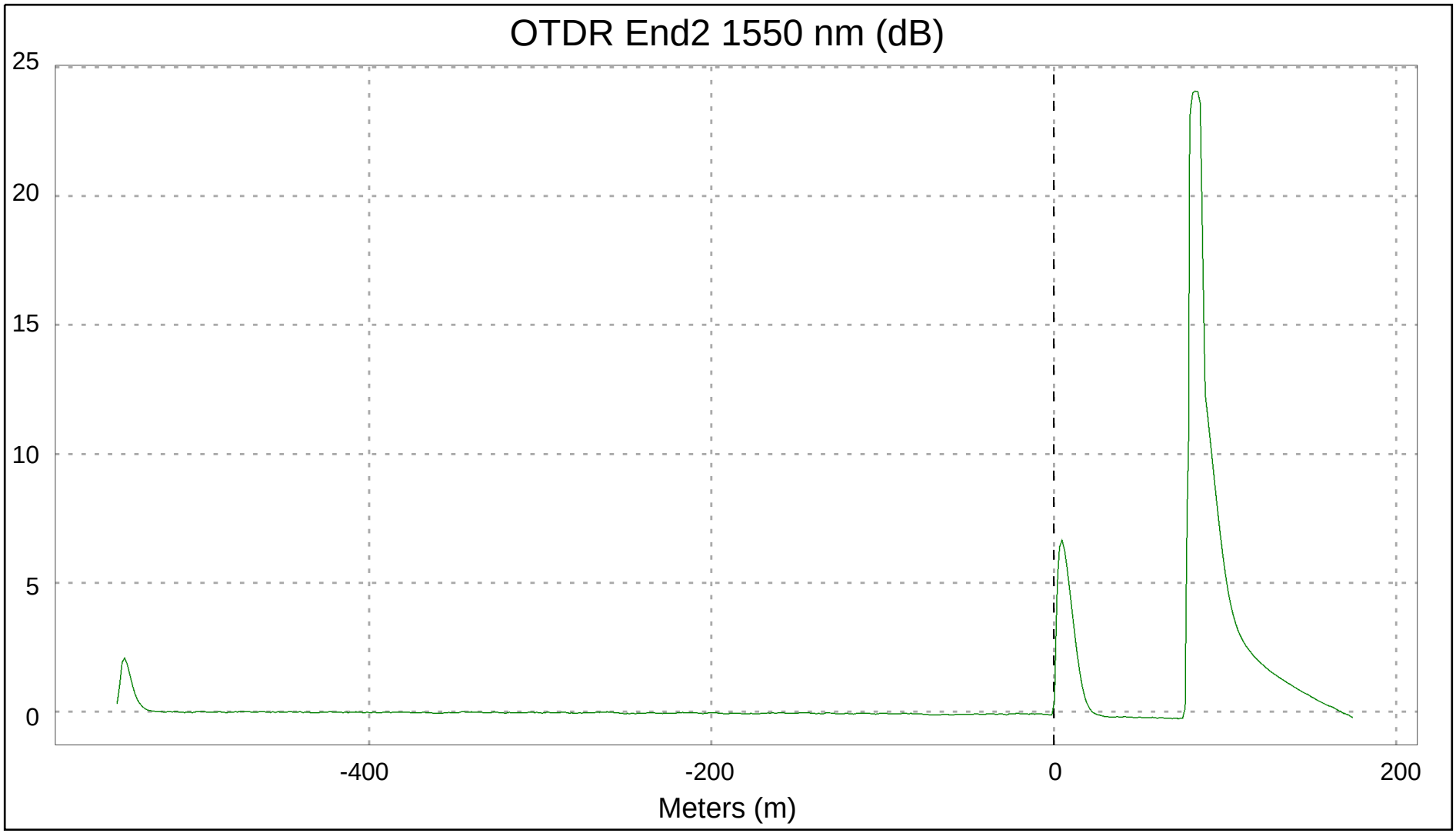
Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 13:14:56
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

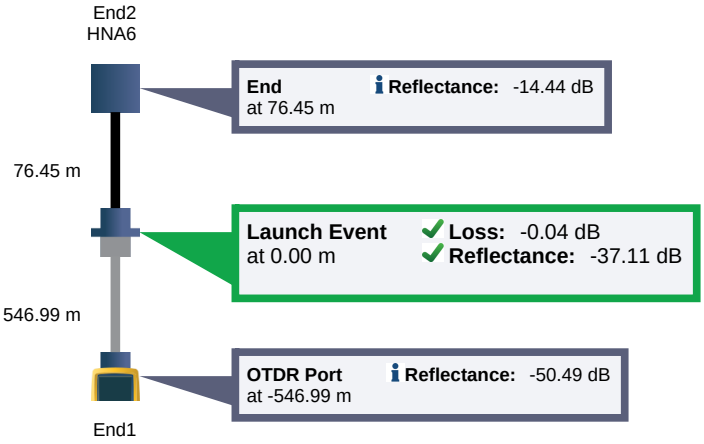
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 13:15:57
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.45 m
Overall Loss: -0.01 dB

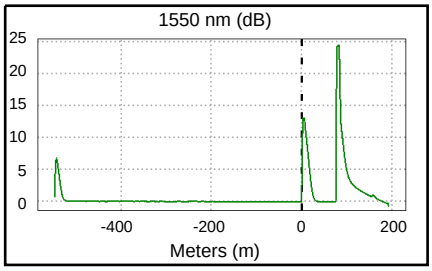


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:03:04
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 546.99 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	739 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.45	
Overall Loss (dB)		-0.01	
ORL (dB)		37.33	
Events			
76.45 m End			
Reflectance (dB)		-14.44	
Attn Coeff (dB/km)		0.37	
0.00 m Launch Event	PASS		
Loss (dB)		-0.04	0.75
Reflectance (dB)		-37.11	-35.00
Attn Coeff (dB/km)		0.18	

Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 13:15:57
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

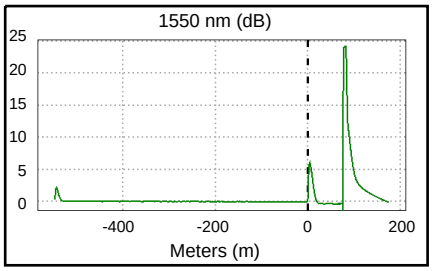
Measurements	Status	1550 nm Value	1550 nm Limit
Events			
-546.99 m OTDR Port Reflectance (dB)		-50.49	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:15:57
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.29	
Overall Loss (dB)		0.31	
ORL (dB)		49.63	
Events			
76.29 m End Reflectance (dB)		-14.31	
Attn Coeff (dB/km)		0.43	
0.00 m Launch Event	PASS		
Loss (dB)		0.28	0.75
Reflectance (dB)		-51.54	-35.00
Attn Coeff (dB/km)		0.18	
-547.11 m OTDR Port Reflectance (dB)		-61.35	

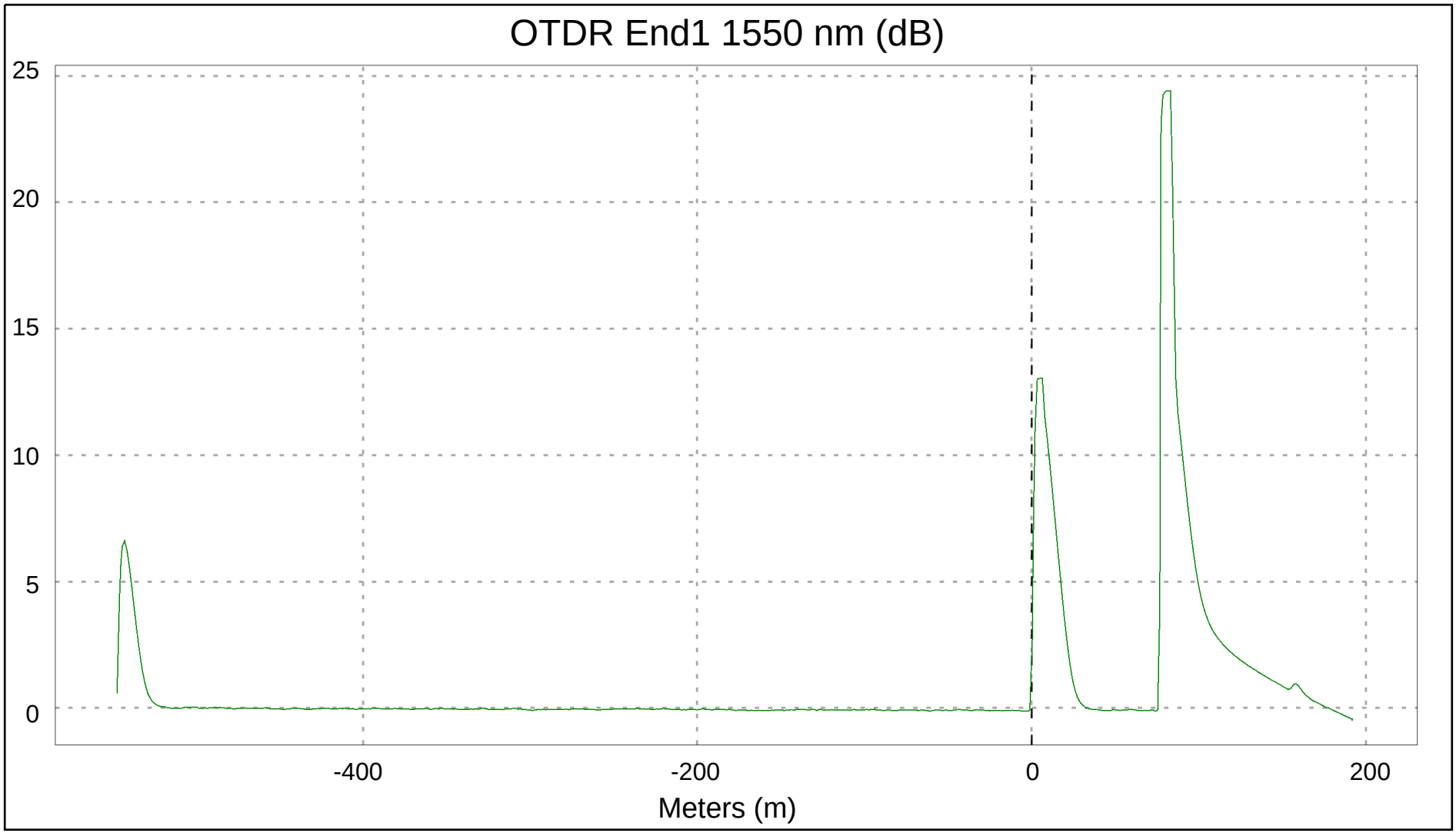
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 13:15:57
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

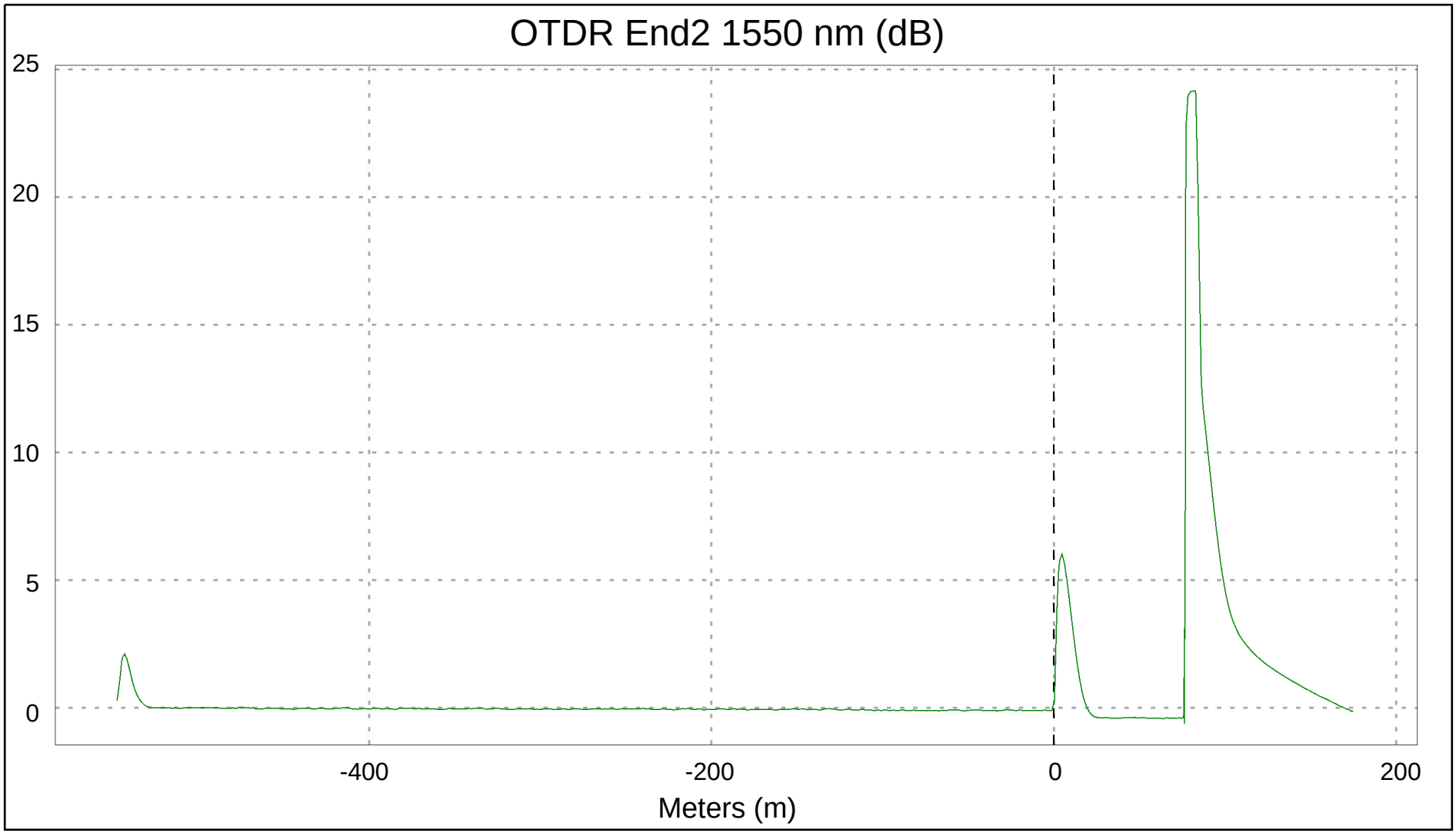
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 13:15:57
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

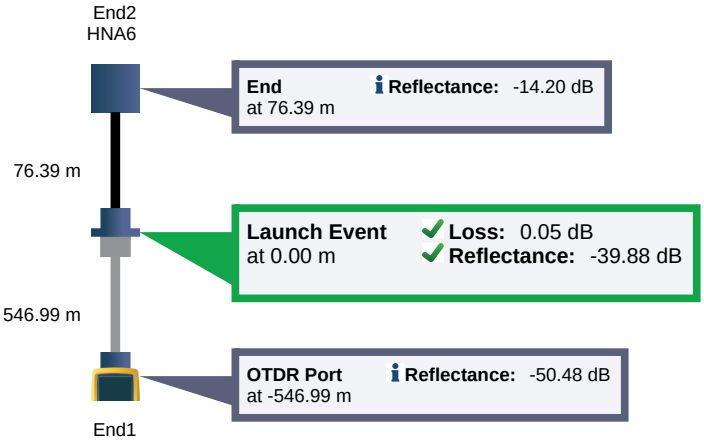
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 13:20:09
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.39 m
Overall Loss: 0.07 dB

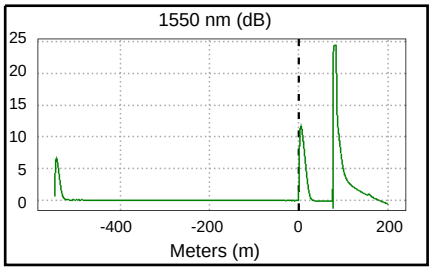


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:03:27
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 546.99 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	748 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.39	
Overall Loss (dB)		0.07	
ORL (dB)		39.83	
Events			
76.39 m End			
Reflectance (dB)		-14.20	
Attn Coeff (dB/km)		0.16	
0.00 m Launch Event	PASS		
Loss (dB)		0.05	0.75
Reflectance (dB)		-39.88	-35.00
Attn Coeff (dB/km)		0.17	

Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 13:20:09
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

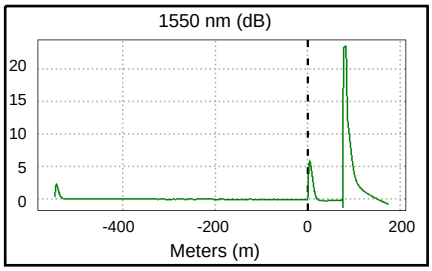
Measurements	Status	1550 nm Value	Limit
Events			
-546.99 m OTDR Port Reflectance (dB)		-50.48	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:20:09
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.24 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.17	
Overall Loss (dB)		0.16	
ORL (dB)		49.84	
Events			
76.17 m End			
Reflectance (dB)		-15.85	
Attn Coeff (dB/km)		0.37	
0.00 m Launch Event	PASS		
Loss (dB)		0.13	0.75
Reflectance (dB)		-52.05	-35.00
Attn Coeff (dB/km)		0.19	
-547.24 m OTDR Port			
Reflectance (dB)		-61.02	

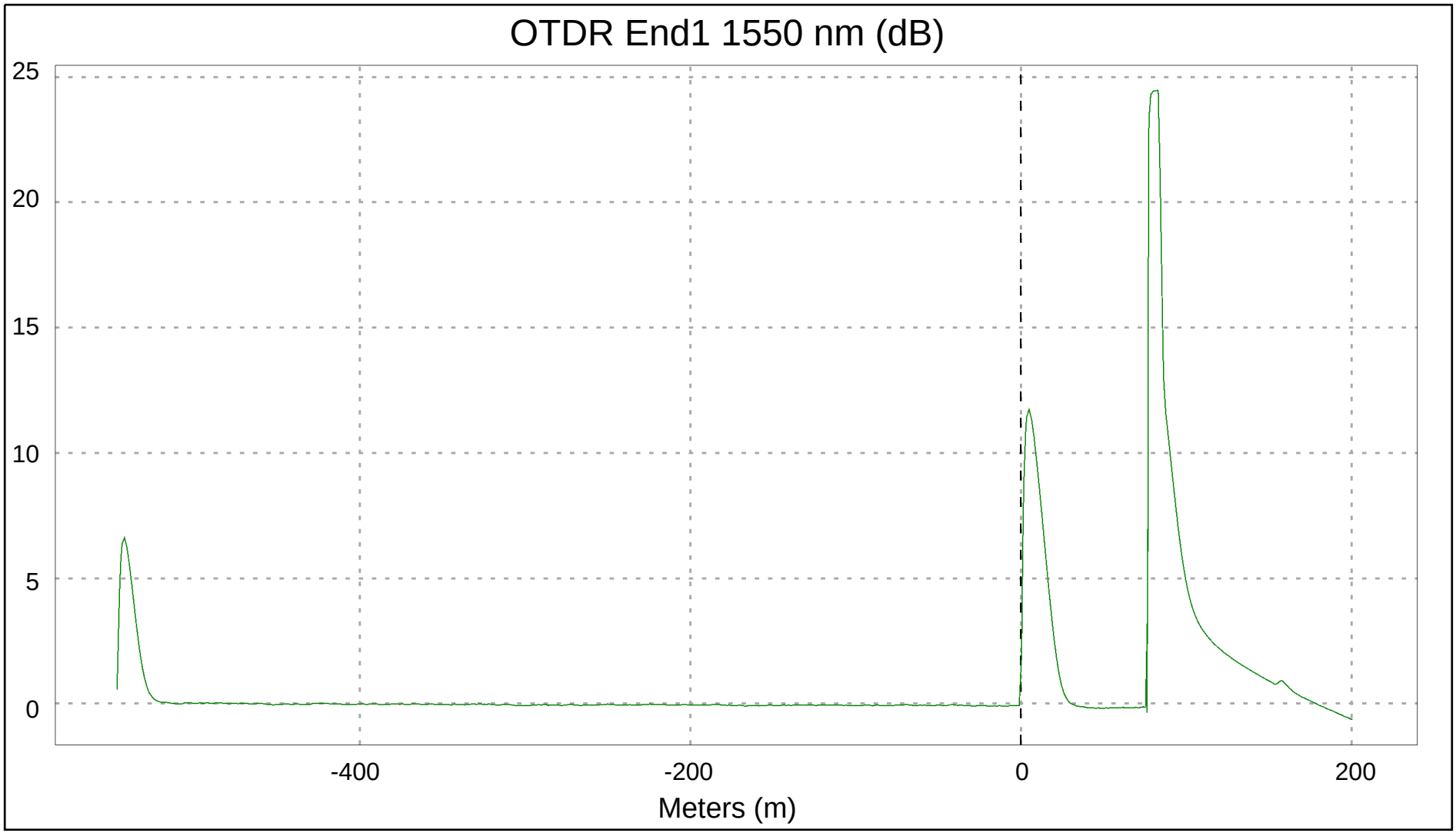
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 13:20:09
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

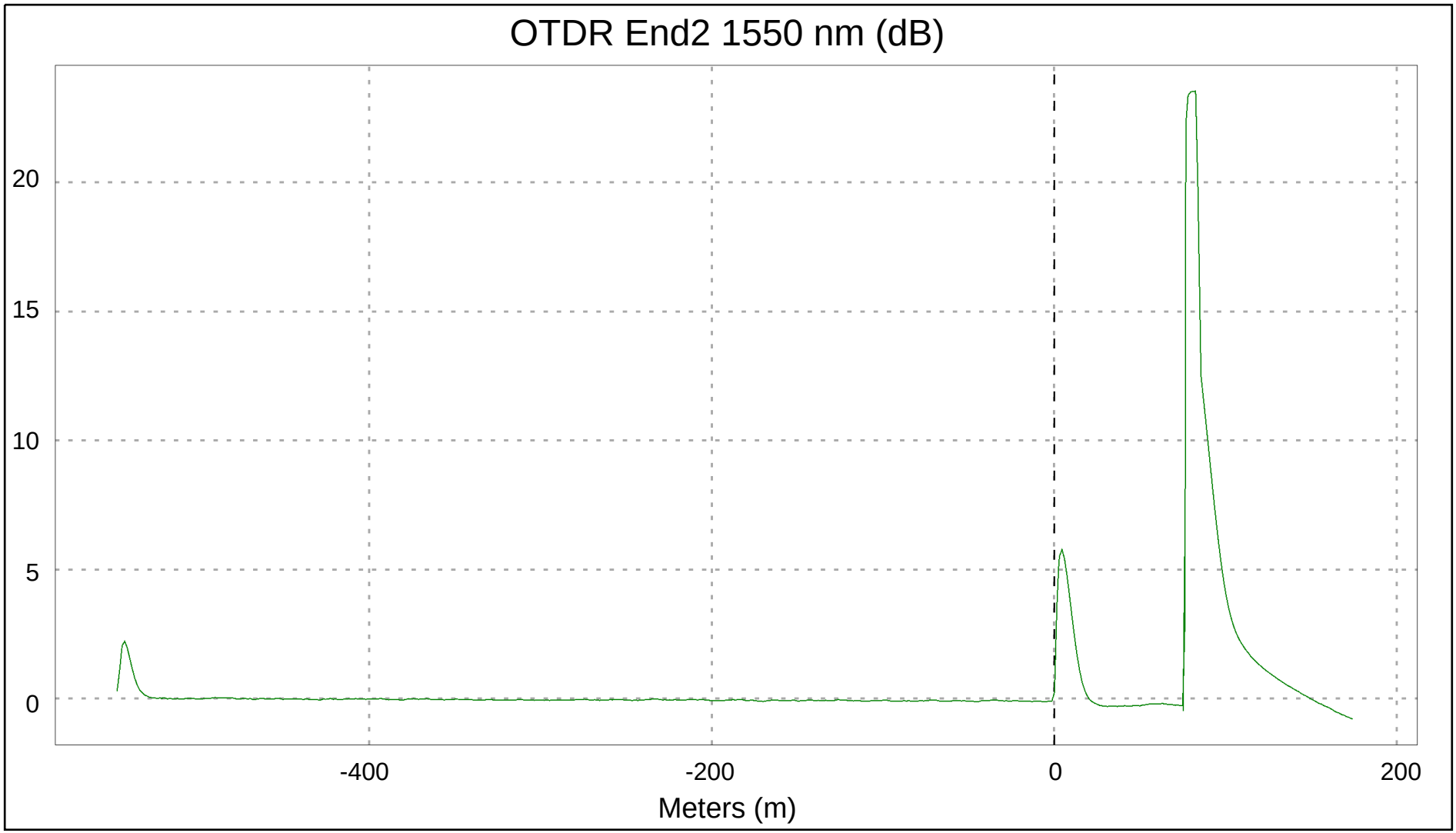
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 13:20:09
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

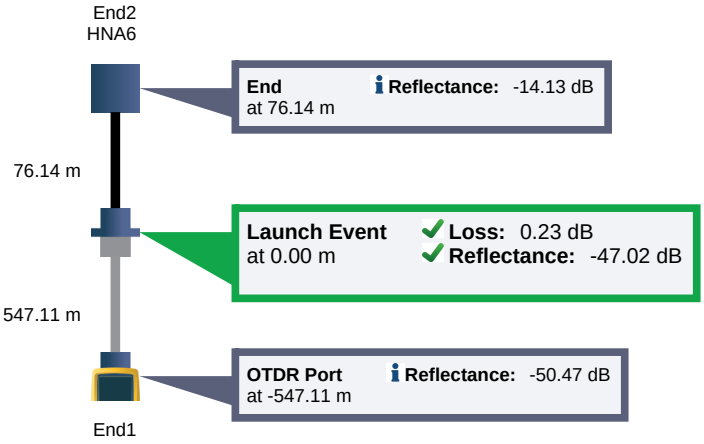
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 13:20:38
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.14 m
Overall Loss: 0.26 dB

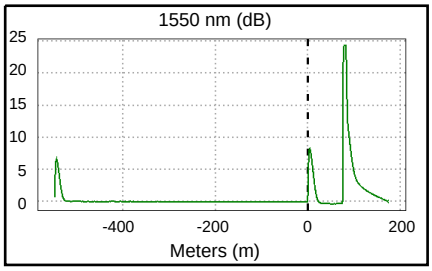


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:03:52
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.14	
Overall Loss (dB)		0.26	
ORL (dB)		46.32	
Events			
76.14 m End			
Reflectance (dB)		-14.13	
Attn Coeff (dB/km)		0.34	
0.00 m Launch Event	PASS		
Loss (dB)		0.23	0.75
Reflectance (dB)		-47.02	-35.00
Attn Coeff (dB/km)		0.18	

Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 13:20:38
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

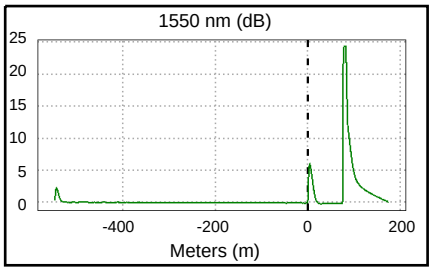
Measurements	Status	1550 nm Value	1550 nm Limit
Events			
-547.11 m OTDR Port Reflectance (dB)		-50.47	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:20:38
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.14	
Overall Loss (dB)		0.08	
ORL (dB)		49.63	
Events			
76.14 m End			
Reflectance (dB)		-14.37	
Attn Coeff (dB/km)		0.22	
0.00 m Launch Event	PASS		
Loss (dB)		0.06	0.75
Reflectance (dB)		-51.76	-35.00
Attn Coeff (dB/km)		0.20	
-547.11 m OTDR Port			
Reflectance (dB)		-61.01	

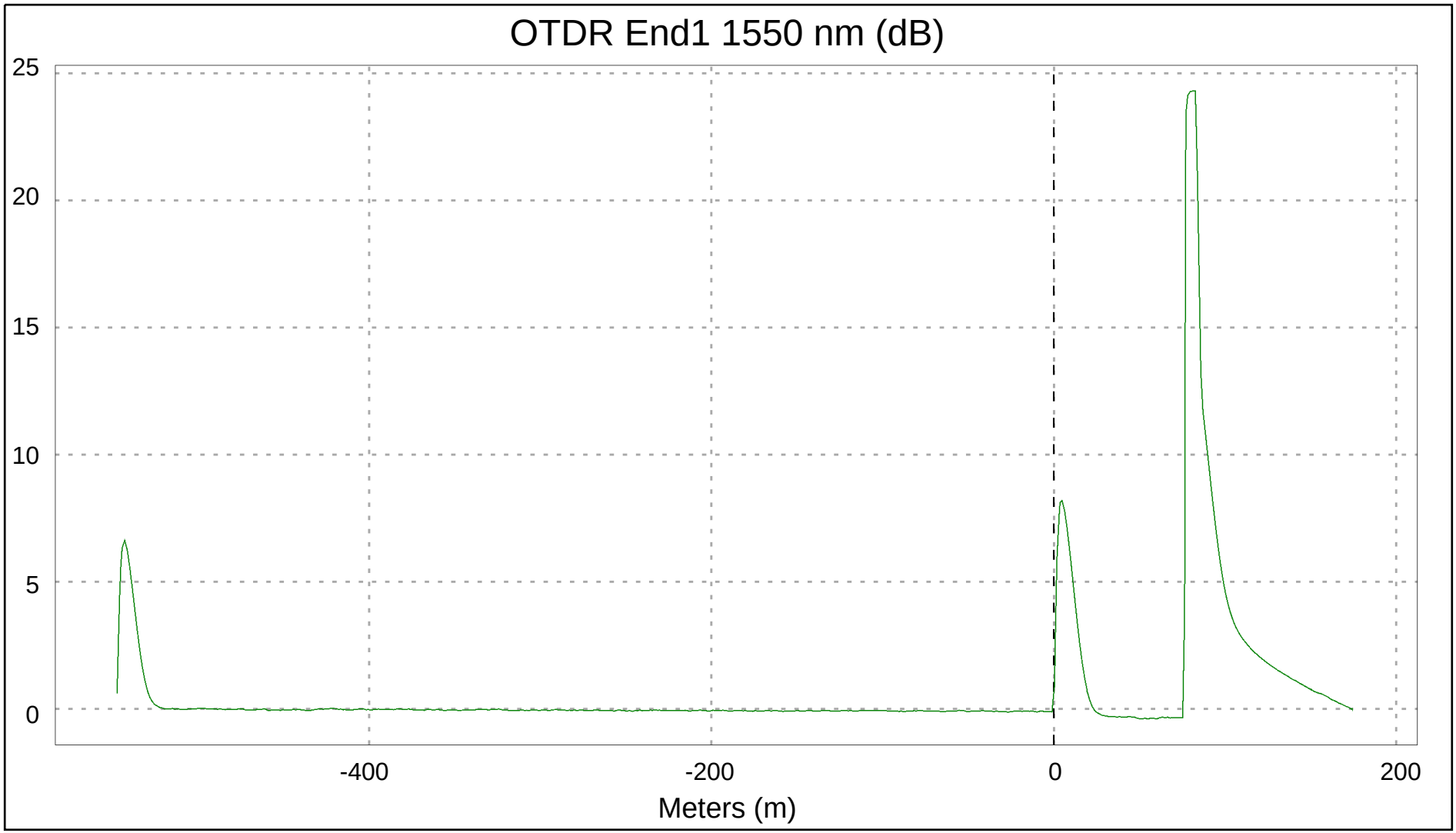
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 13:20:38
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

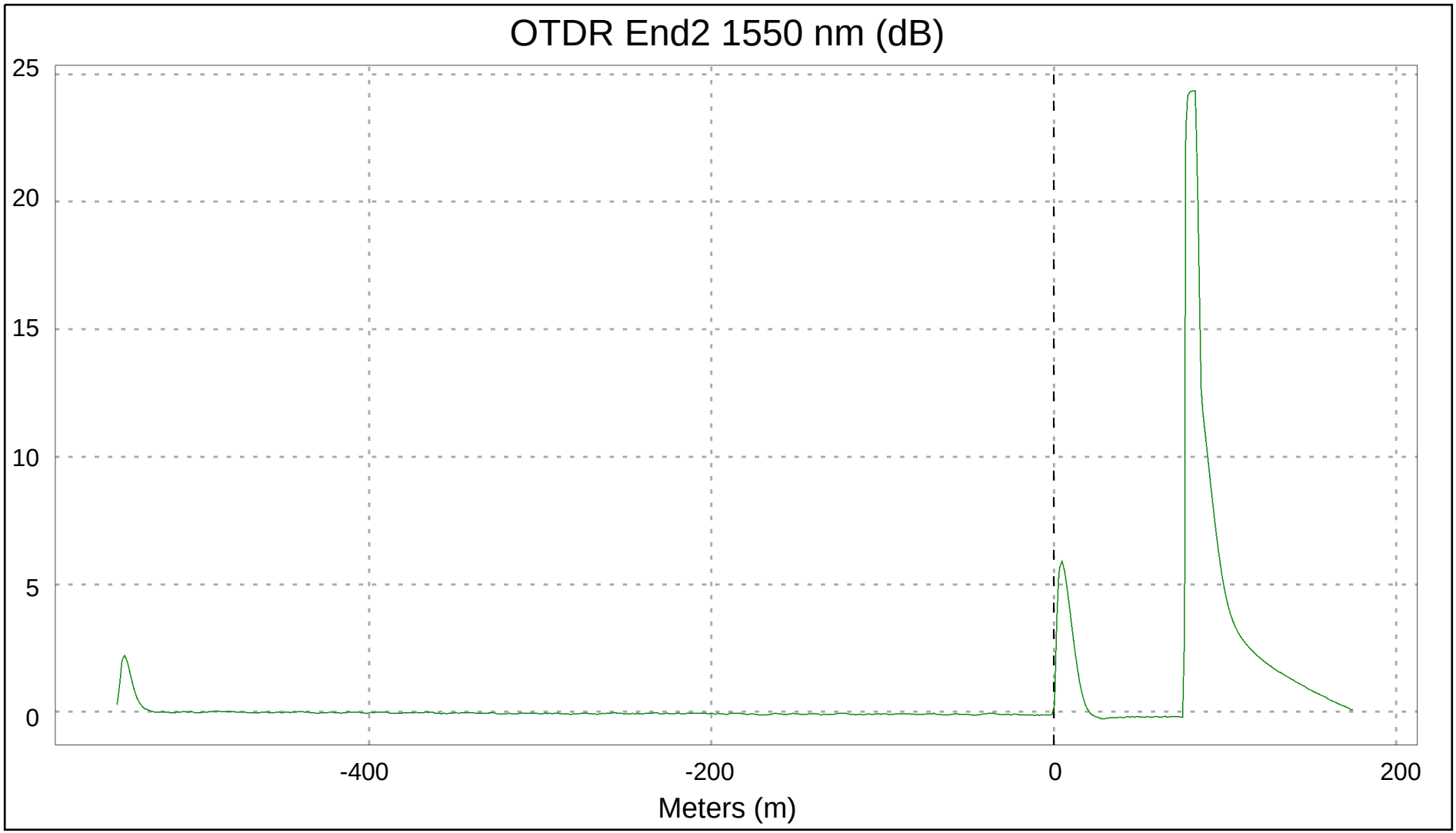
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 13:20:38
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

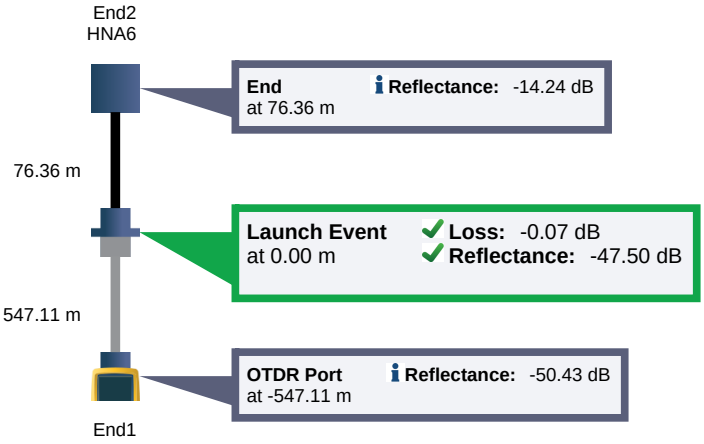
Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 13:21:14
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.36 m
Overall Loss: 0.04 dB

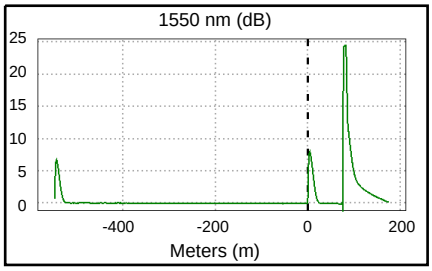


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:04:40
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.36	
Overall Loss (dB)		0.04	
ORL (dB)		46.62	
Events			
76.36 m End			
Reflectance (dB)		-14.24	
Attn Coeff (dB/km)		1.38	
0.00 m Launch Event	PASS		
Loss (dB)		-0.07	0.75
Reflectance (dB)		-47.50	-35.00
Attn Coeff (dB/km)		0.19	

Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 13:21:14
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

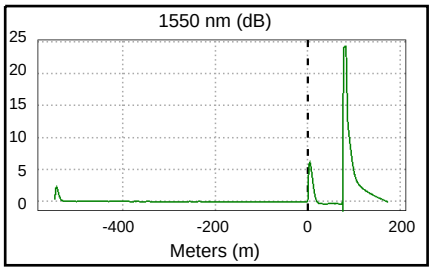
Measurements	Status	1550 nm Value	Limit
Events			
-547.11 m OTDR Port Reflectance (dB)		-50.43	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:21:14
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.33	
Overall Loss (dB)		0.29	
ORL (dB)		49.50	
Events			
76.33 m End			
Reflectance (dB)		-14.16	
Attn Coeff (dB/km)		0.37	
0.00 m Launch Event	PASS		
Loss (dB)		0.26	0.75
Reflectance (dB)		-51.36	-35.00
Attn Coeff (dB/km)		0.20	
-547.11 m OTDR Port			
Reflectance (dB)		-60.93	

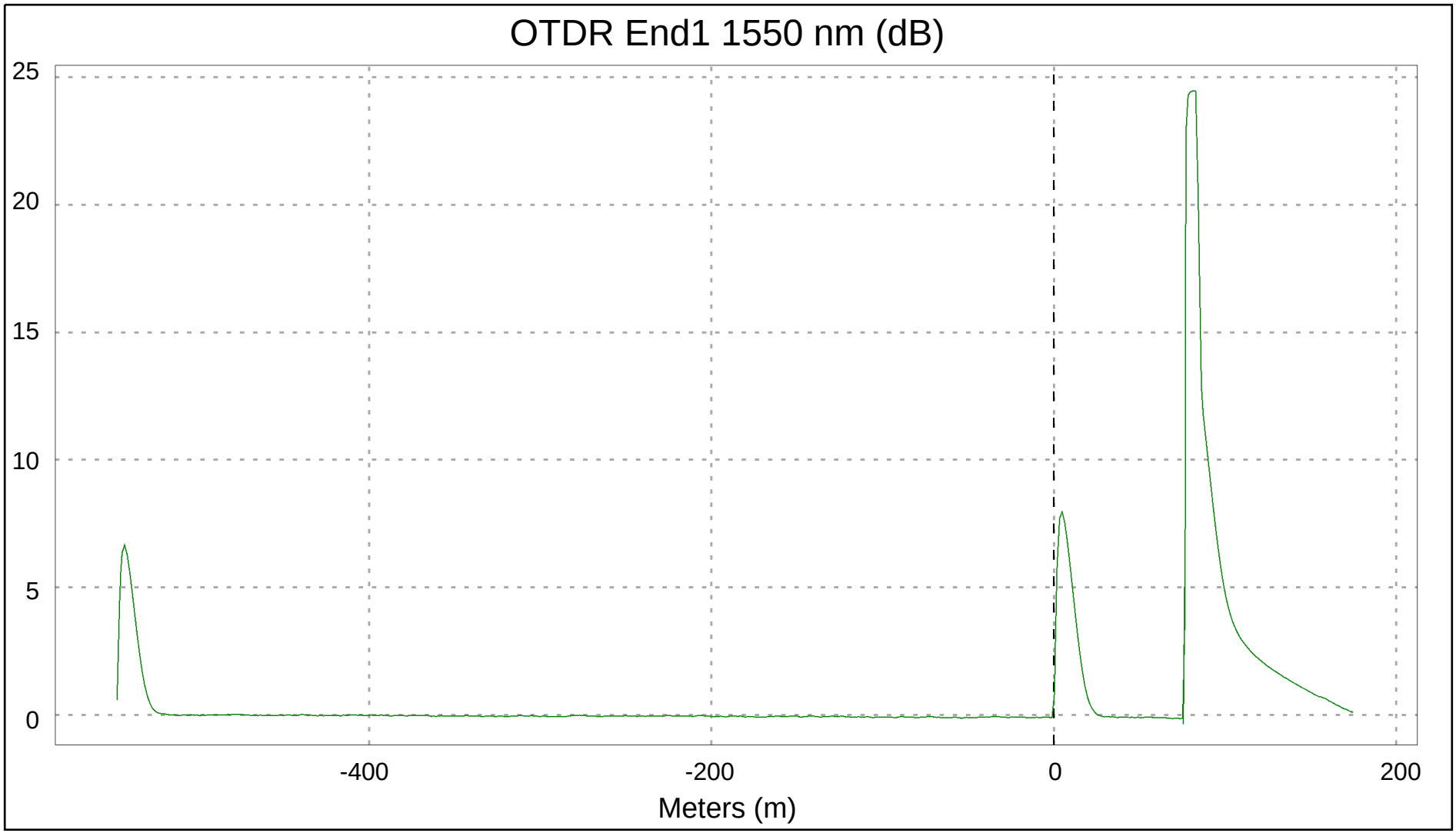
Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 13:21:14
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

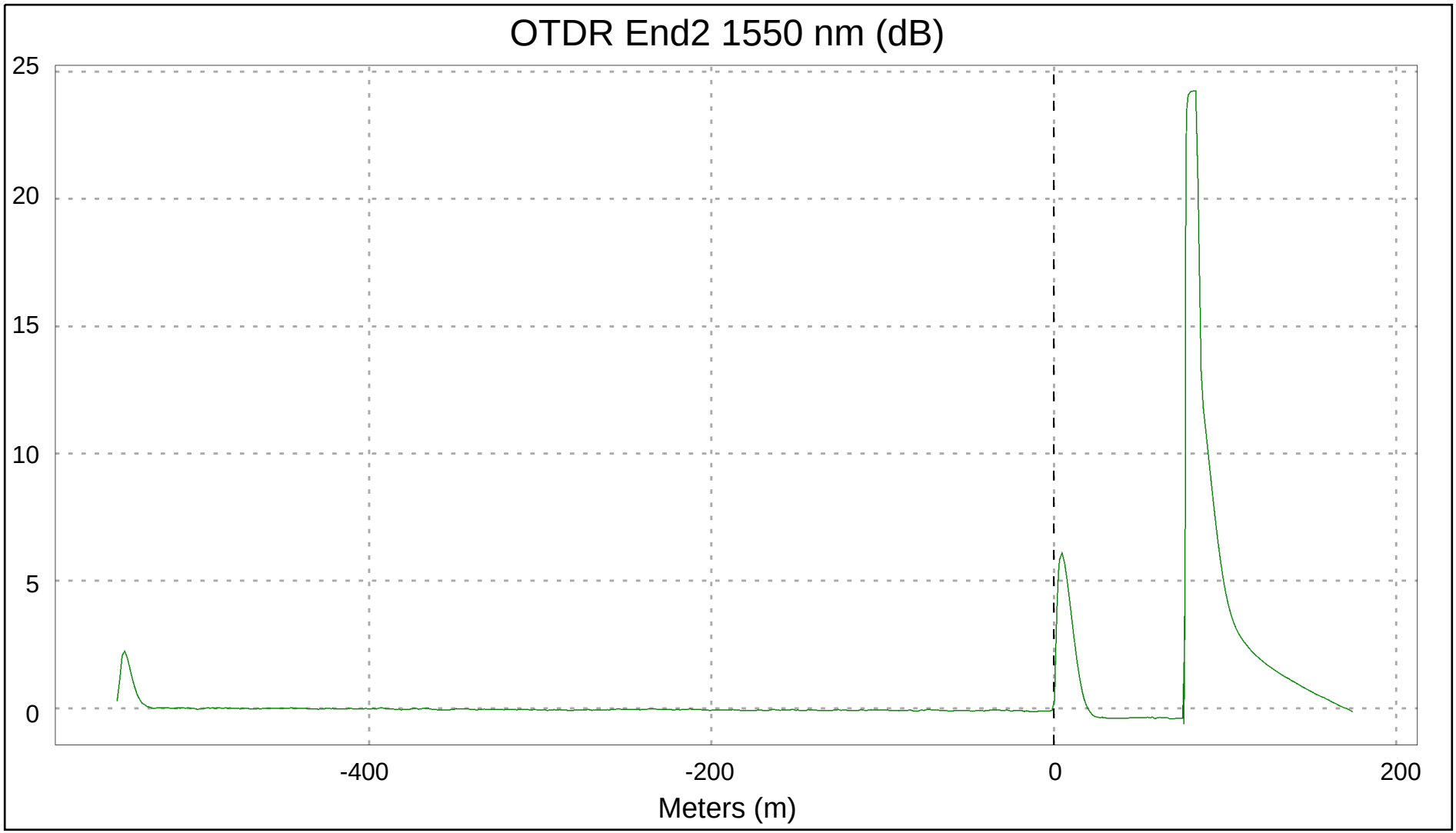
Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 13:21:14
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

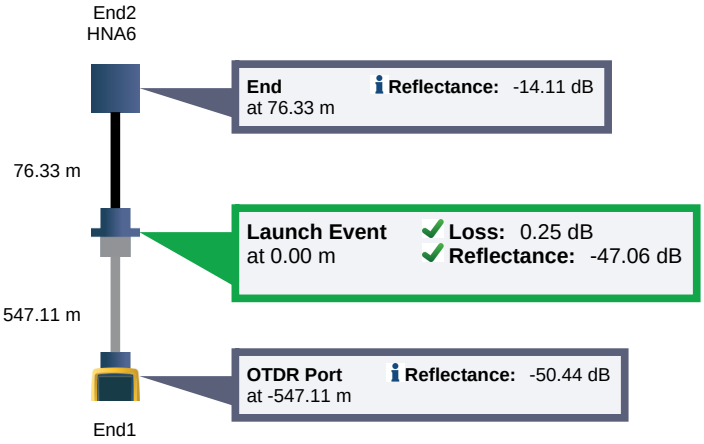
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 13:21:43
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 76.33 m
Overall Loss: 0.31 dB

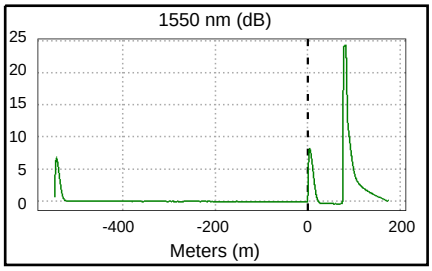


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:05:07
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 10:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	1550 nm Limit
Overall Length (m)		76.33	
Overall Loss (dB)		0.31	
ORL (dB)		46.37	
Events			
76.33 m End			
Reflectance (dB)		-14.11	
Attn Coeff (dB/km)		0.90	
0.00 m Launch Event	PASS		
Loss (dB)		0.25	0.75
Reflectance (dB)		-47.06	-35.00
Attn Coeff (dB/km)		0.20	

Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 13:21:43
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End2 Name: HNA6

OTDR End1 PASS

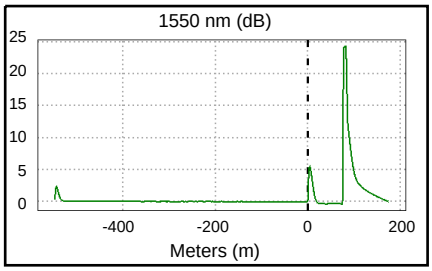
Measurements	Status	1550 nm Value	Limit
Events			
-547.11 m OTDR Port Reflectance (dB)		-50.44	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:21:43
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	722 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		76.29	
Overall Loss (dB)		0.30	
ORL (dB)		50.36	
Events			
76.29 m End			
Reflectance (dB)		-14.01	
Attn Coeff (dB/km)		0.22	
0.00 m Launch Event	PASS		
Loss (dB)		0.28	0.75
Reflectance (dB)		-52.81	-35.00
Attn Coeff (dB/km)		0.20	
-547.11 m OTDR Port			
Reflectance (dB)		-60.93	

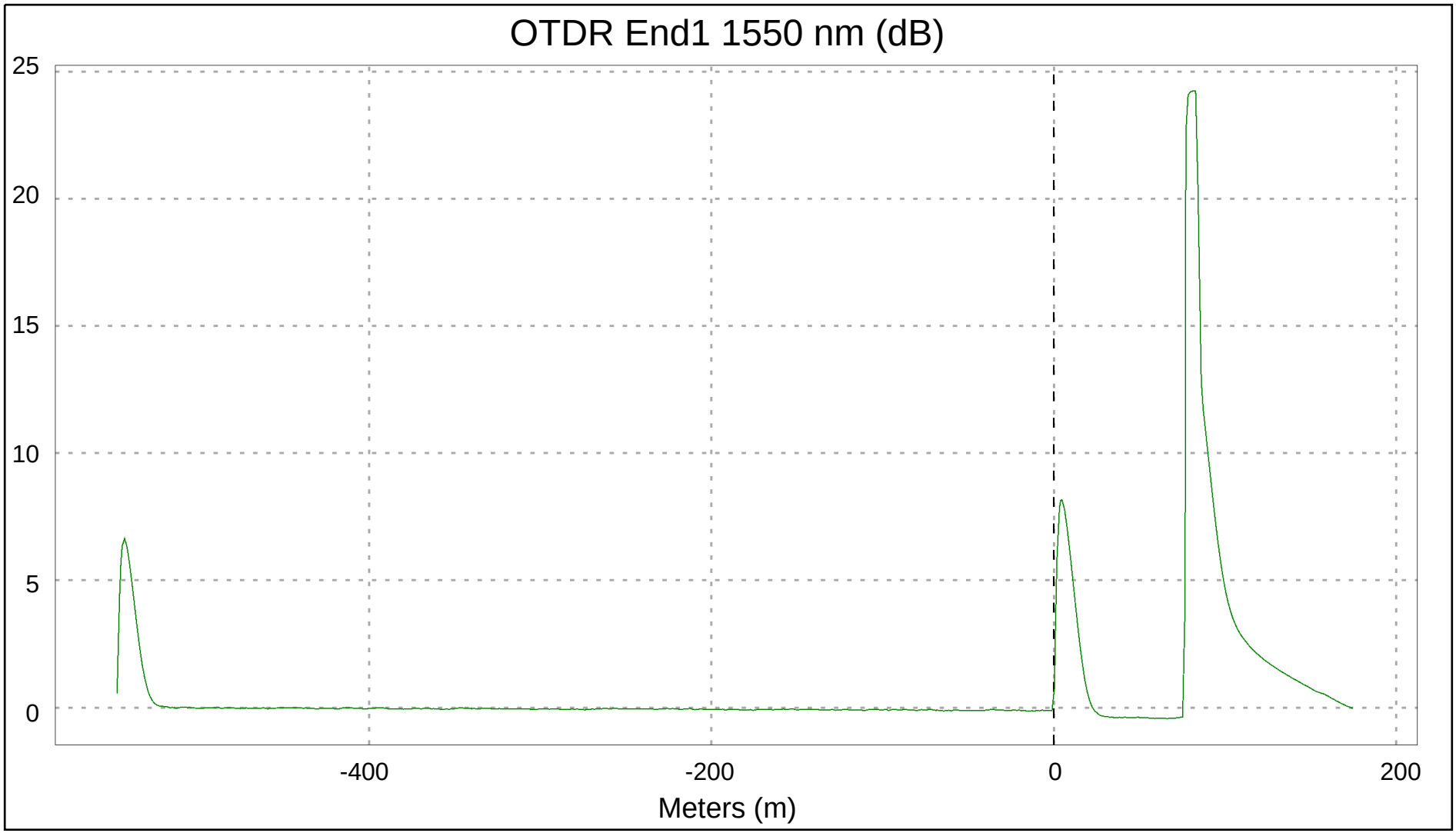
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 13:21:43
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

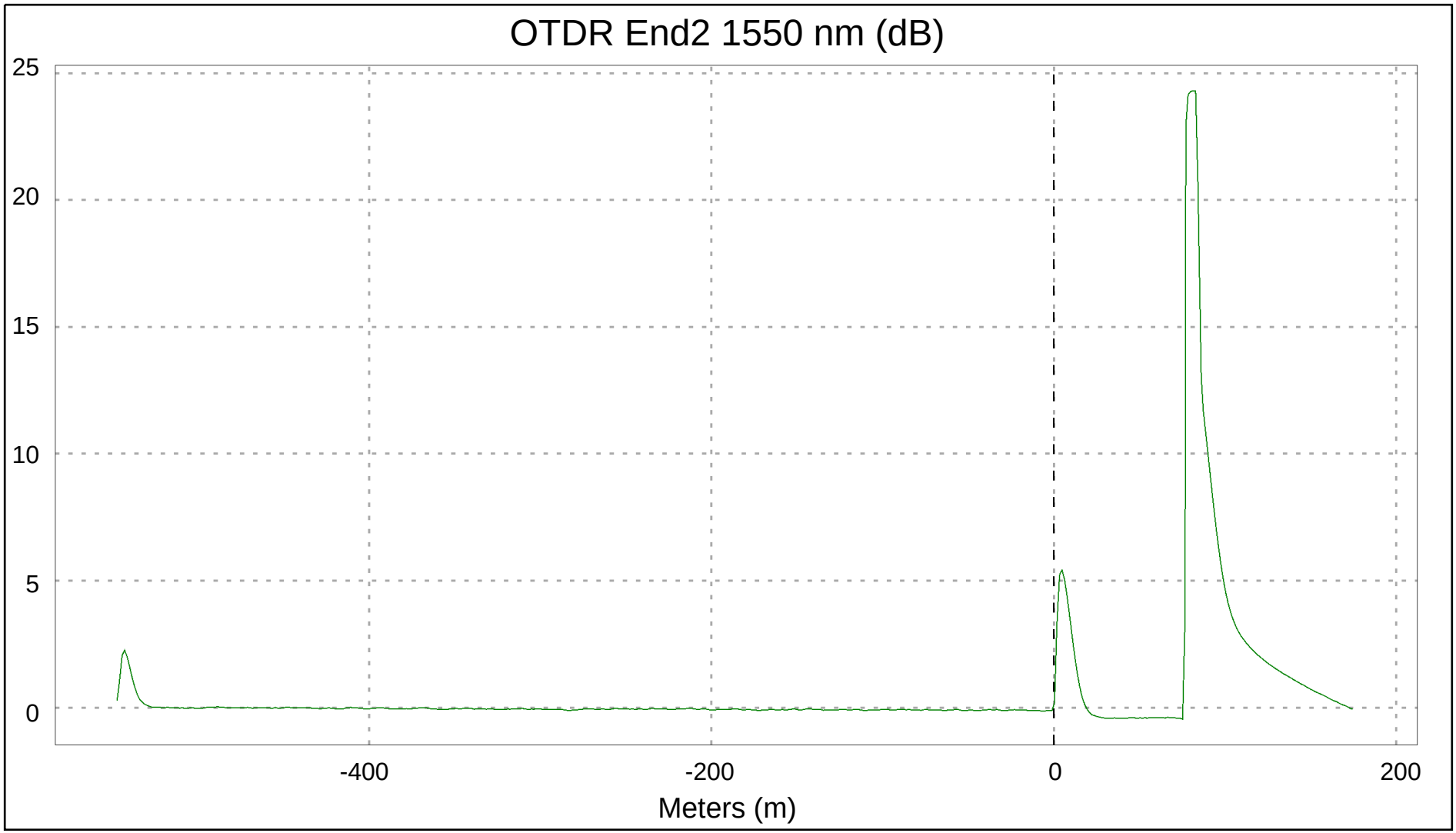
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 13:21:43
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End2 Name: HNA6



LinkWare™ PC Version 11.4

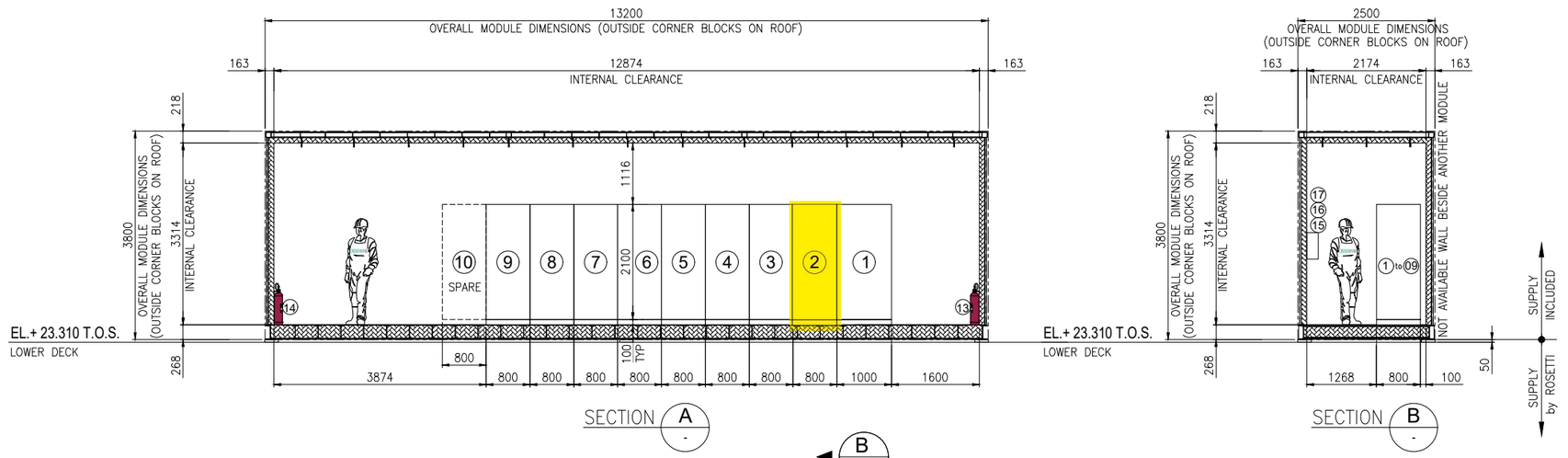
Project: CROSSWIND HNA6/B400-NET-001
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

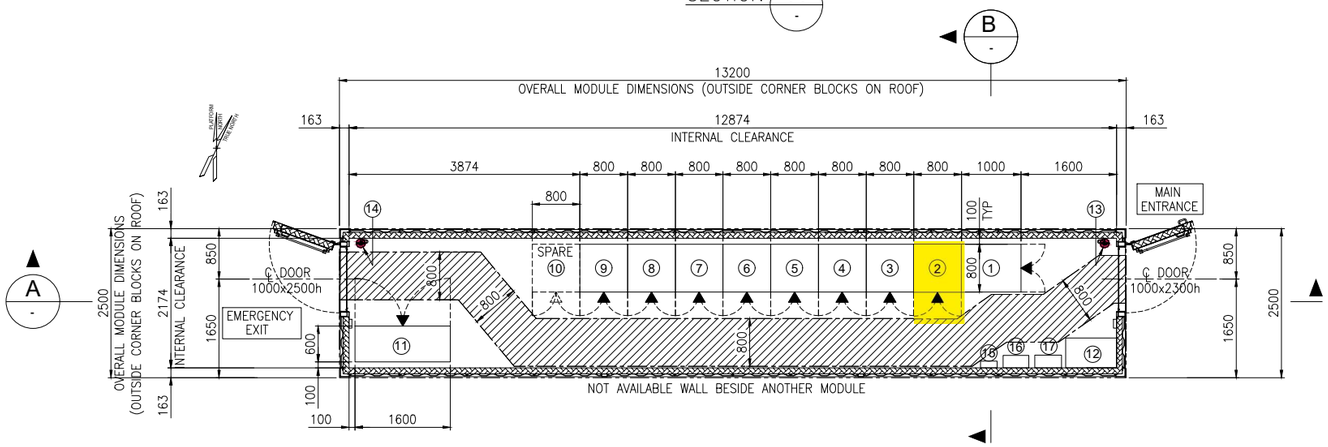
DRAWING NO. 123A90-DDL-IN-DL-40012

REV. 03



SECTION A -

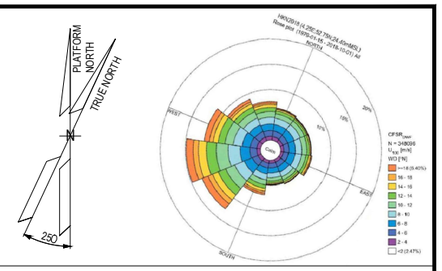
SECTION B -



EQUIPMENT LAYOUT
"B-400" I&T EQUIPMENT ROOM
BOTTOM PLAN

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	B400-SRV-001	SERVER CABINET	1000	800	2100	
2	B400-NET-001	NETWORK CABINET	800	800	2100	
3	B400-EMCS-001	EMCS SYSTEM CABINET	800	800	2100	
4	B400-PCS-002	PCS MARSHALLING CABINET	800	800	2100	
5	B400-PCS-001	PCS SYSTEM CABINET 03	800	800	2100	
6	B400-FGS-003	FGS MARSHALLING CABINET 2	800	800	2100	
7	B400-FGS-002	FGS MARSHALLING CABINET 1	800	800	2100	
8	B400-FGS-001	FGS SYSTEM CABINET	800	800	2100	
9	B400-SIS-001	SIS SYSTEM/MARSHALLING CABINET	800	800	2100	
10	-	SPARE				
11	B400-HSB-001	DISTRIBUTION & HVAC PANEL - I&T ROOM	1600	600	2300	
12	-	TABLE	850	500	750	
13	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
14	-	PORTABLE EXTINGUISHER (CO2) 5 Kg.	150	150	750	
15	-	FIRST AID KIT	280	115	200	
16	-	RESUSCITATION UNIT	430	210	480	
17	-	CABINET INCLUDED N.10 ESCAPE MASK	448	213	422	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DOCUMENT VALID ONLY FOR INSTRUMENT COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.

LEGEND

U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR – WIDTH 800mm.
_____ EQUIPMENT ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

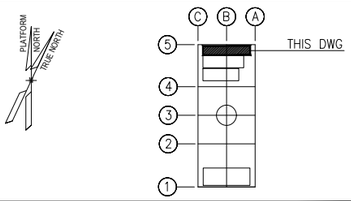
HOLDS

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REFERENCE

DOCUMENT TITLE	DOCUMENT NUMBER
Control System Architecture Detailed Drawings	123A90-DDL-IN-DD-40096
Data Network Architecture Drawings	123A90-DDL-IN-DD-40019
Earthing layouts drawings (CCR, ITER)	123A90-DDL-IN-DL-40013
Instrument and Telecom MCT Layout – Lower Deck	123A90-DDL-IN-DL-40086
"B-400" I&T Equipment Room – Architectural Layout	123A90-DDL-AR-DL-10015
"B-400" ARCHITECTURAL GENERAL LAYOUT PLAN, WIEW, SECTIONS & TYP. DETAILS	123A90-DDL-AR-DL-10015
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DA-00017
"B-400" GENERAL ARRANGEMENT DRAWING	1724000049-AR-DD-00021
"B-400" HVAC SYSTEM G.A. and DETAILS	1724000049-HV-DA-00067

KEY PLAN



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	04/10/24	VBA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	27/05/24	MGA	LCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	22/01/24	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)
00	07/11/23	VBA	LCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DL-40012**

REV.:	DATE:	SIGNATURE:
3_A	07/10/24	G.Randi

ROSETTI MARINO SpA

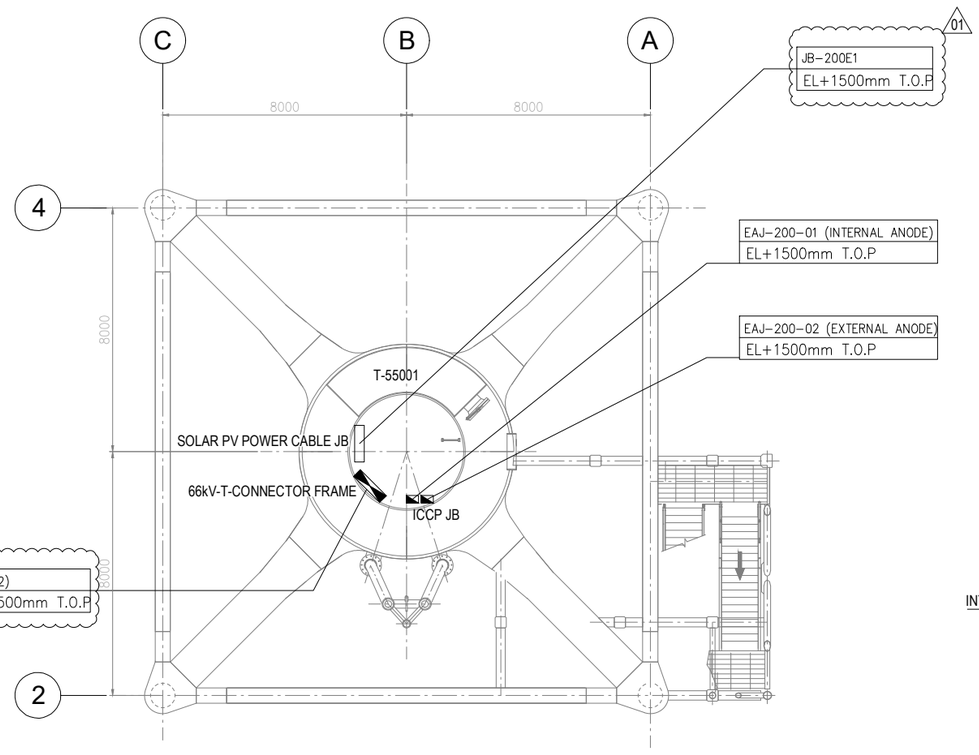
TITLE : BASE LOAD POWER HUB (BLPH)
OFF-SHORE ITER
EQUIPMENT LAYOUT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:33,3
DRAWN MGA	CHECKED LCA	APPROVED DLO	DATE 27/05/24
A1	DRAWING NO. 123A90-DDL-IN-DL-40012	SHEET 001	REV. 03

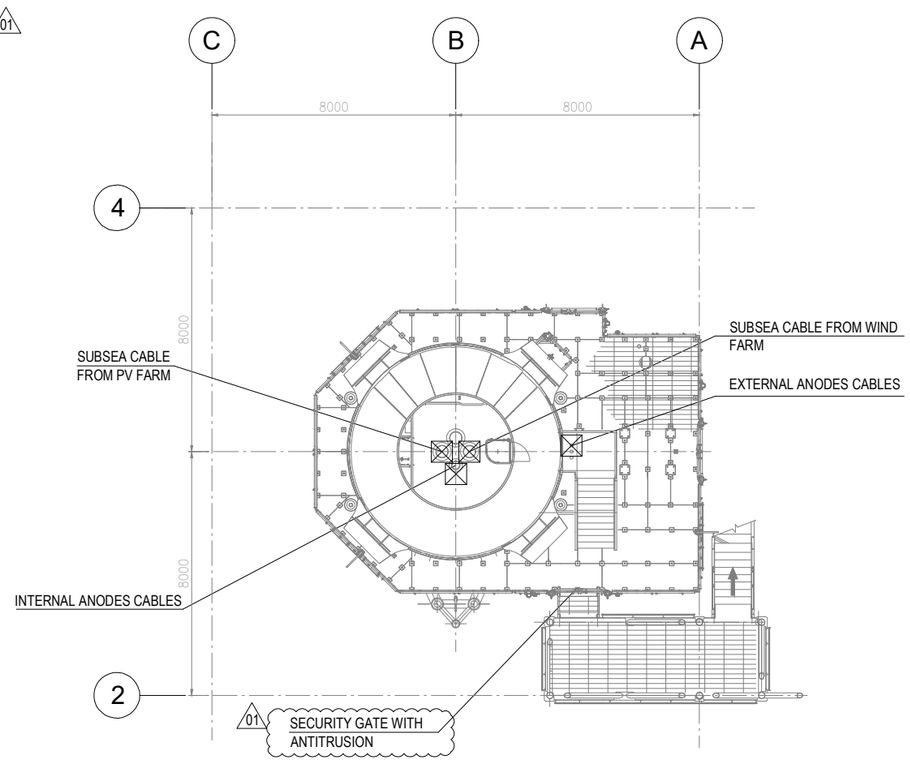
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DRAWING NO. 123A90-DDL-EL-DL-20102

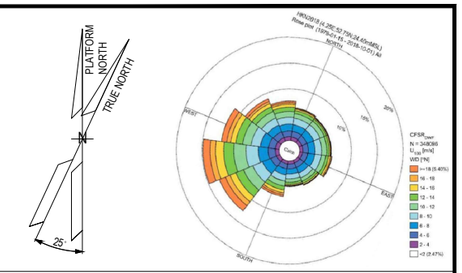
REV. 01



PLAN ON TRANSITION PIECE
EL+21.710 T.O.S.



PLAN ON EXISTING PLATFORM AT
EL+16.860 T.O.S.



NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S. UNLESS NOTED OTHERWISE.
4. ELEVATIONS REFER TO THE HORIZONTAL AXIS OF THE OBJECT. 01

LEGEND

JB-200E1 / EL+1500mm T.O.P	TAG ITEM / REFERED ELEVATION TO T.O.P. (TOP OF PLATFORM)
	SOLAR PV POWER CABLE JB
	66kV T-CONNECTOR FRAME
	ICCP JUNCTION BOX
01	EXISTING CABLE ENTRY

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-EL-DL-20140	ELECTRICAL HEAT TRACING JUNCTION BOX LAYOUT
123A90-DDL-EL-DL-20120	LIGHTING & SOCKET LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DS-20048	TDS - IAC CABLE INTERFACE JB + SOLAR PV JB
123A90-DDL-EL-DS-20054	T-CONNECTORS & HV TERMINATIONS
DRW-15547-001-SAE-001	ICCP DRAWINGS & SPECIFICATIONS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	24/05/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20102
REV.: 1_A | DATE: 08/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 23/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20102	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20102-Electrical Equipment Layout - Stair Towers

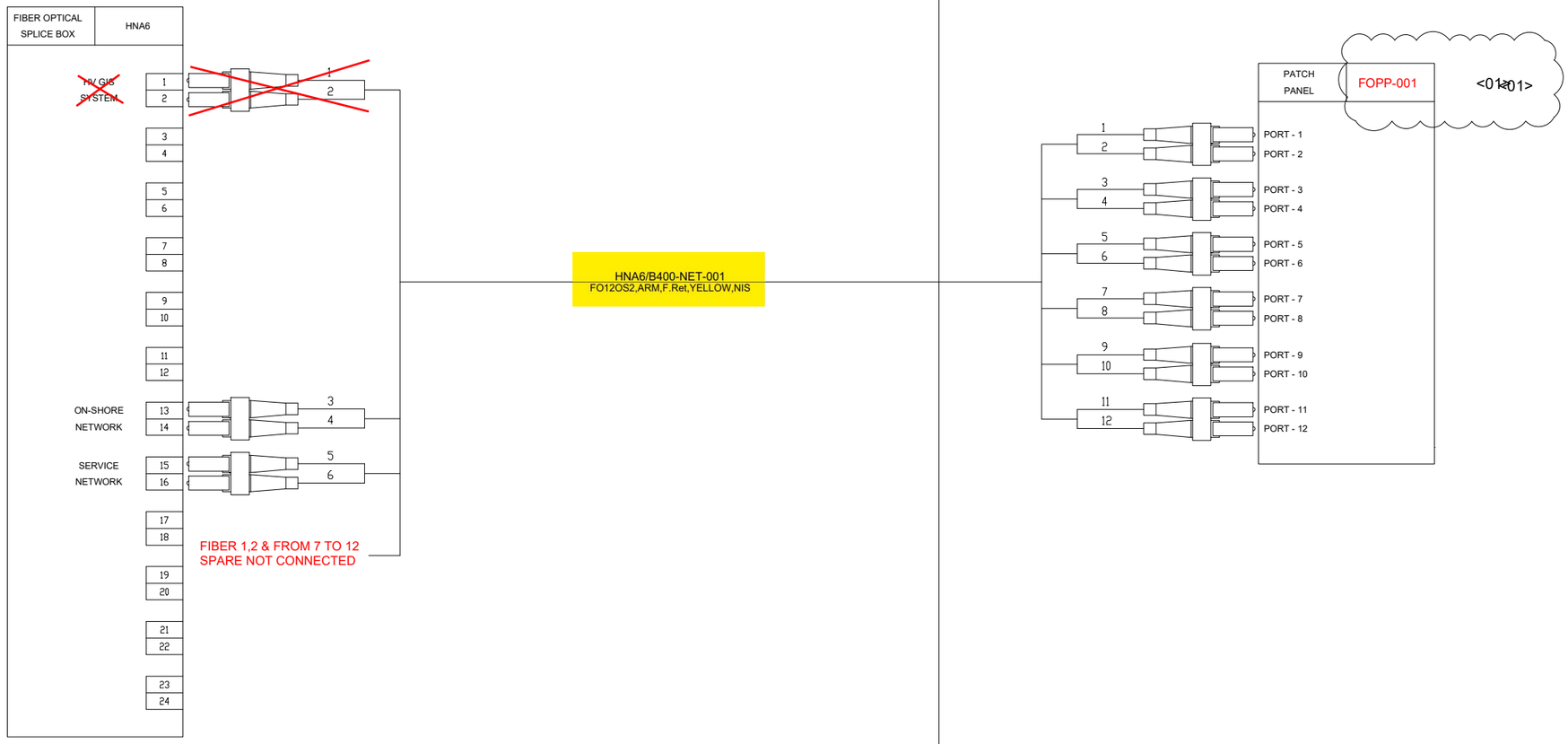
DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

FIELD - TRANSITION PIECE

I&T EQUIPMENT ROOM (ITER B400)

NETWORK CABINET - B400-NET-001



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_I	29/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
COMMUNICATION – F.O.

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO. 123A90-DDL-IN-DG-40015	SHEET 039	REV. 01

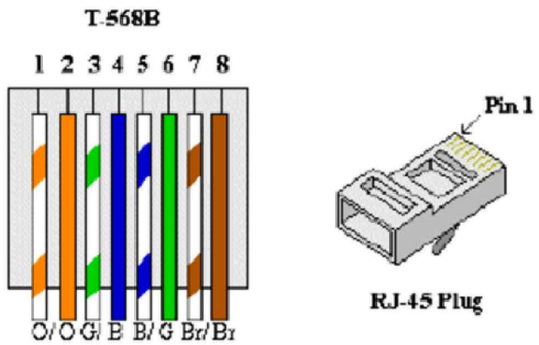
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



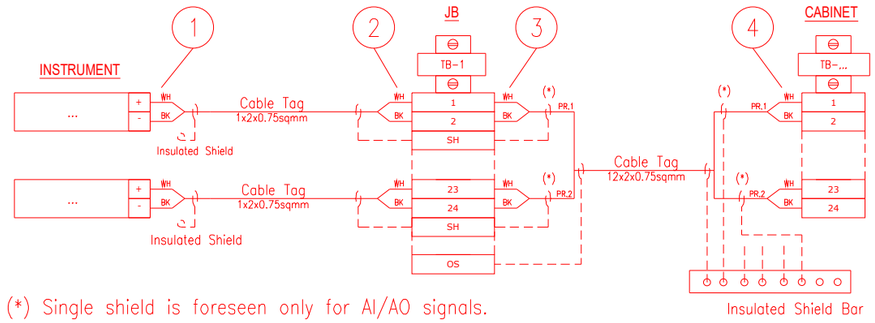
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

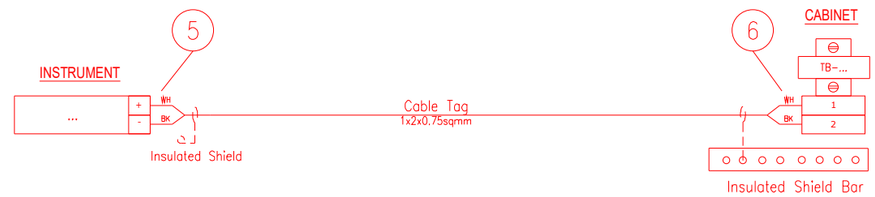
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

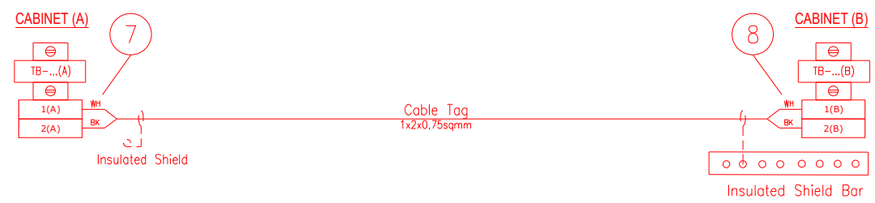
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_I	29/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
HNA6/B400-NET-001	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						HNA6	Fiber Optical Splice Box	Transition Piece	B400-NET-001	Network Cabinet / EMCS System	Lower Deck (B-400)	TELCV02-12FO	Fibre Optic Cable 12X9/125 OS2 - Yellow	M20S	T2_M20S_Double			n.a.				I-MCT-T01 / L-SEC-8 / L-SEC-1E / L-SEC-1D / L-SEC-1C / L-SEC-1B / L-SEC-1A / B-400-SEC-1A / B-400-SEC-1B / B-400-SEC-2D / B-400-SEC-2C / B-400-SEC-3B / I-MCT-402

1	GENERAL	Cable Code	FO12 OS2
2		Drum Details.	TELCV02-12FO
3		Number of Drums	1
4		Ambient temperature min	Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C
5		Vendor Cable Code	(*)
6		Service	Communication cables - Fiber Optic type
7		Cable Description	FO-LSZH-SWB-LSZH
8		Cable Installation	Above Ground
9		Cable Type / Conductor size	12 Cores, Single Mode OS2 - 9/125 µm
10		Cable Length [mt]	200
11		Cable Diameter (min / nor / max) - OVER ALL	8.5mm
12		Cable diameter(under armour)	
13		Fire Performance	Flame Retardant as per IEC 60332
14		Hazardous Area Classification	Zone-2, Gr IIC (II-B + H2), T1
15	FIBER	Mode	Single Mode OS2 9/125 µm
16		Total No. of Cores	12
17		Size (Corer / Cladding / Buffer)	9/125 µm
18		Fiber Optic Cores Identification	According to TIA-598
19		Index Profile	Gradual
20		Number of Fiber Strands per tube	4
21		Standards	IEC 60793-1&2, IEC60794, IEC 61034-2, IEC 61280-4-1-9, TIA-526-14-B (by ITU-T G.651.1)
22		Attenuation	
23	LOOSE TUBE & FILLER	Material	
24		Colour	According to IEC 60304
25		Loose Tube Diameter	
26		Loose Tube Gel	Thixotropic Filling Gel (*)
27		Number of Loose Tube Gel	1
28		Number of Dummy Fillers	0
29		Filler Color	
30	SZ CORE	Sequence on elements in core	
31		Water Blocking Compound	Thixotropic Filling Gel (*)
32		Peripheral Strength Member	Glass Yarn over the SZ Core (*)
33		Core Wrapping	VTA
34	CONSTRUCTION	Inner Sheath Material / Colour	Note 8
35		Inner Sheath Rip Cord	One rip cord inner sheath (*)
36		Inner Sheath Thickness	VTA
37		Outer Sheath Material / Colour	Note 7 / YELLOW
38		Outer Sheath Rip Cord	One rip cord under the outer sheath (*)
39		Outer Sheath Thickness	1.5mm
40		Bending Radius	20xO.D During Installation, Permanent 10xO.D.
41		Minimum Laying Temperature	-40 °C
42		Strength Member Type / Diameter	FRP ROD / 2.8mm
		Armour	Steel Wire braiding (SWB)
43		Weight	100 Kg/Km
44	TESTS AND CERTIFICATES	Certificate of Conformity	Required
45		Material certification	Required
46		Test Report / Certification	Required
48			
49			
50	MISC	Manufacturer	FLEI
51		MR number	123A90-DDL-IN-MR-40065
52		PO number	1724001170
53			
54			

#	NOTE:

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ITEM	Tag	HNA6/CN-200N1	: COMMUNICATION / ICCP UCP PANEL		Dwg	123A90-DDL-IN-LIS-40091	
	S/Sys	86-20	: Fibre Optic Links		Module	TP/LD_B-200	
TASK	code	C10004804	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Telecom	Form	CIX11	Fibre Optic/Patch Panel

CABLE DATA

Type	Fibre Optic Cable	Cores/Size mm²	FO12 OS2	Color	YELLOW
From	HNA6	To	CN-200N1		

1	Check Fiber optical cable features is adapted and according to the project (type, cores number, structure, Fire resistance, etc..)	OK
2	Check cable physical integrity	OK
3	Check cable routing against drawings (segregation, distance, …)	OK
4	Check cable gland suit for cable type	OK
5	Check that Fibre Optic cable and core are correctly tagged against drawings	PL
6	Check correct interconnection as per wiring	OK
7	Check fibres are terminated correctly and secured.	OK
8	Check splicing box and protection adapted to environmental conditions	OK
9	Check End to End link is terminated in Optical Distribution Frame according to type of connectors (SC, ST, etc…).	OK
10	Check that minimum bending radius of fibre optic cables is met in cabinet/patch panel.	OK
11	Check visual installation complete.	Note
12	If required produce Red Line Mark Up for "AS BUILT"	

Comments: Note 11: Cable installation and connection will be completed during OFFSHORE phase. (See Ref task C10004514)

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-02-03	2025-02-04	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-02-03T13:59:50.981Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-02-04T15:59:34.472Z	

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
001	PASS	General Fiber RL = 35 dB	60.8 m	N/A	31-01-2025 12:59
002	PASS	General Fiber RL = 35 dB	60.8 m	N/A	31-01-2025 12:59
003	PASS	General Fiber RL = 35 dB	60.5 m	N/A	31-01-2025 13:00
004	PASS	General Fiber RL = 35 dB	60.7 m	N/A	31-01-2025 13:01
005	PASS	General Fiber RL = 35 dB	60.8 m	N/A	31-01-2025 13:01
006	PASS	General Fiber RL = 35 dB	60.9 m	N/A	31-01-2025 13:02
007	PASS	General Fiber RL = 35 dB	60.7 m	N/A	31-01-2025 13:02
008	PASS	General Fiber RL = 35 dB	60.9 m	N/A	31-01-2025 13:03
009	PASS	General Fiber RL = 35 dB	60.9 m	N/A	31-01-2025 13:05
010	PASS	General Fiber RL = 35 dB	60.9 m	N/A	31-01-2025 13:05
011	PASS	General Fiber RL = 35 dB	61.0 m	N/A	31-01-2025 13:07
012	PASS	General Fiber RL = 35 dB	60.9 m	N/A	31-01-2025 13:08

Total Length:	729.8 m
Number of Reports:	12
Number of Passing Reports:	12
Number of Failing Reports:	0
Number of Warning Reports:	0
Documentation Only:	0

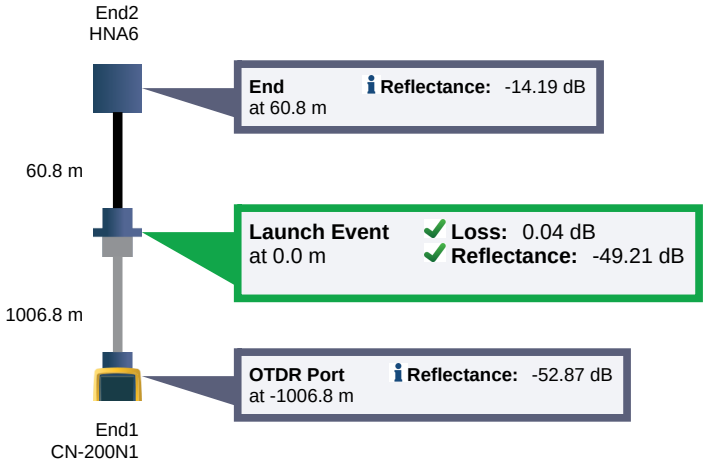
Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 12:59:07
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.8 m
Overall Loss: 0.04 dB

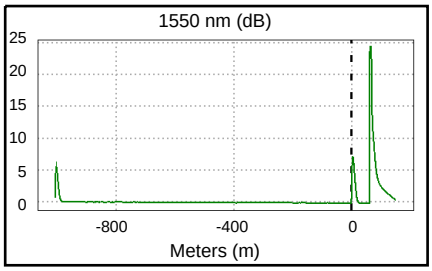


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:37:00
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.8 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1158 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.8	
Overall Loss (dB)		0.04	
ORL (dB)		48.08	
Events			
60.8 m End			
Reflectance (dB)		-14.19	
Attn Coeff (dB/km)		0.10	

Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 12:59:07
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

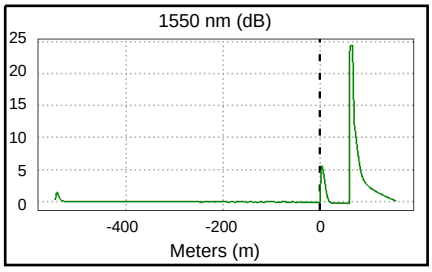
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		0.04	0.75
Reflectance (dB)		-49.21	-35.00
Attn Coeff (dB/km)		0.19	
-1006.8 m OTDR Port			
Reflectance (dB)		-52.87	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 12:59:07
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.21 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.75	
Overall Loss (dB)		0.20	
ORL (dB)		50.70	
Events			
60.75 m End			
Reflectance (dB)		-14.06	
Attn Coeff (dB/km)		0.00	
0.00 m Launch Event	PASS		
Loss (dB)		0.20	0.75
Reflectance (dB)		-52.83	-35.00
Attn Coeff (dB/km)		0.20	
-547.21 m OTDR Port			
Reflectance (dB)		-64.07	

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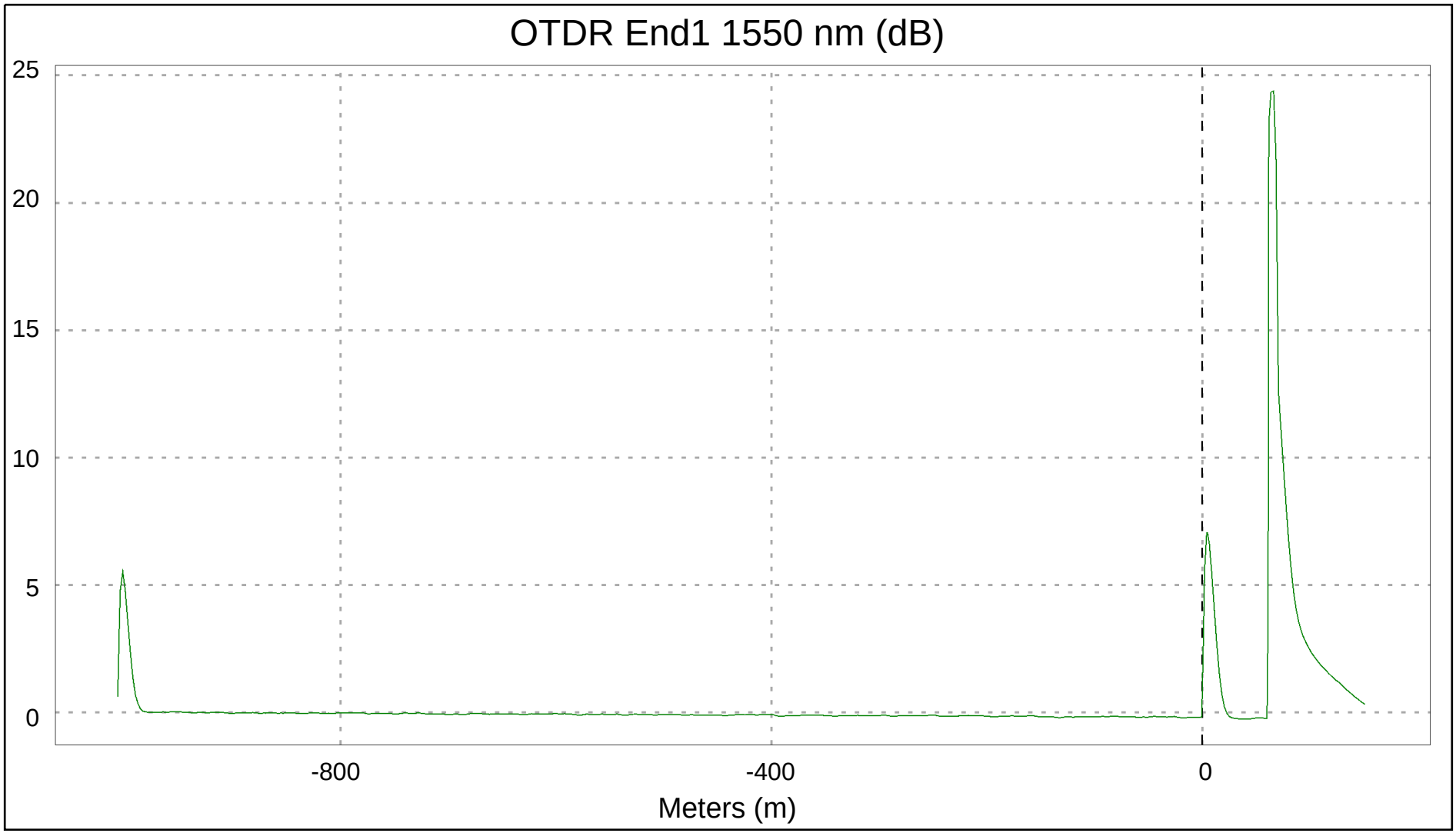
Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 12:59:07
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

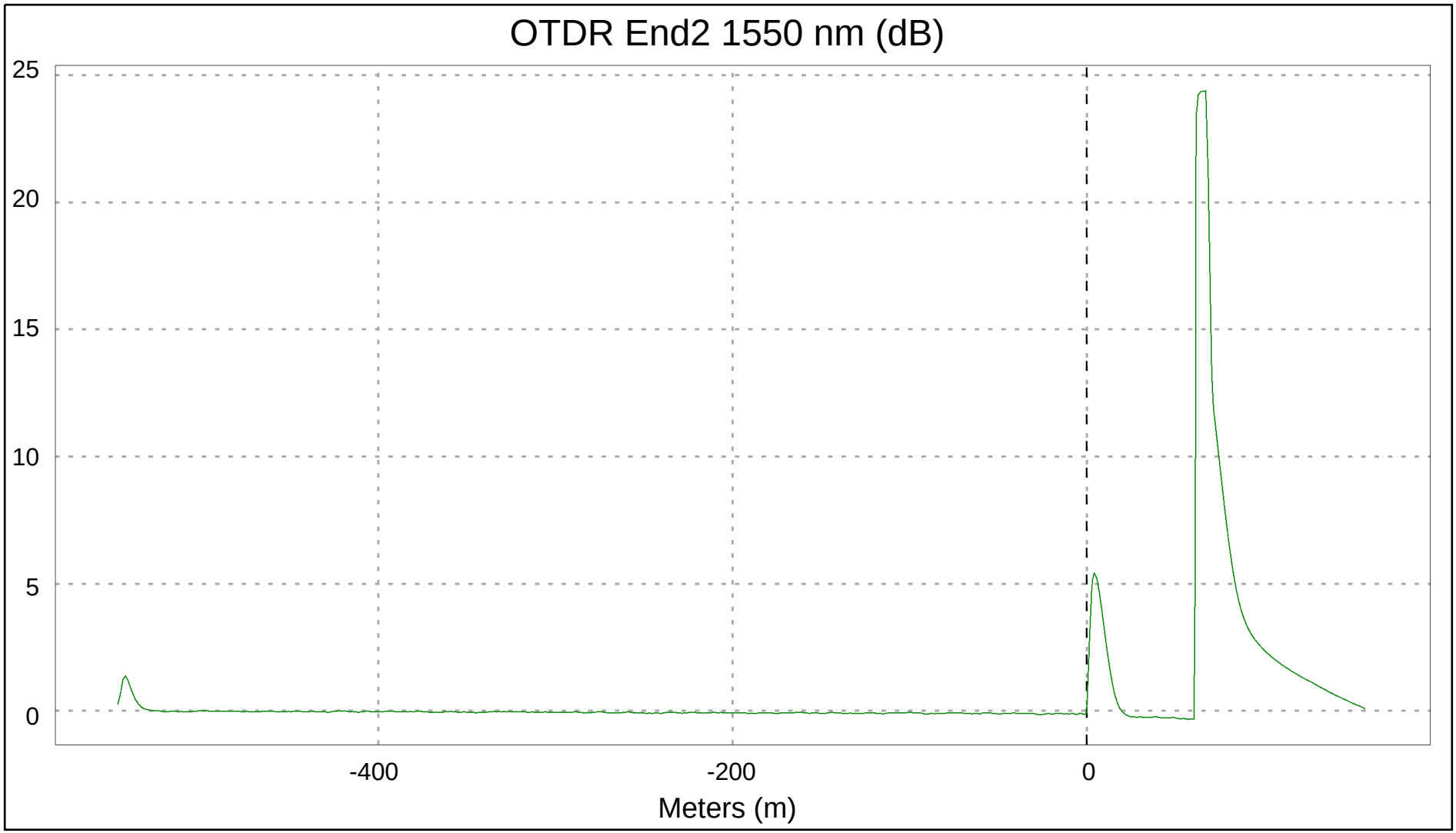
Cable ID: 001

Test Summary: PASS

Date / Time: 31-01-2025 12:59:07
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

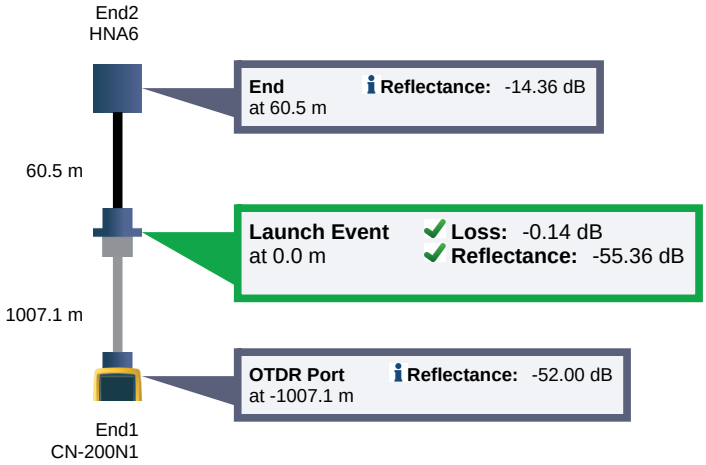
Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 12:59:55
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.5 m
Overall Loss: -0.13 dB

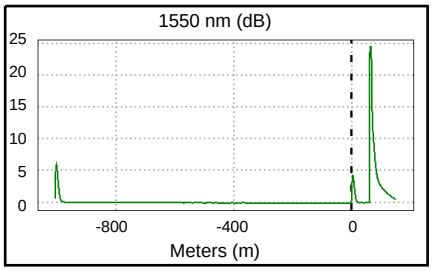


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:49:44
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1007.1 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1158 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.5	
Overall Loss (dB)		-0.13	
ORL (dB)		51.71	
Events			
60.5 m End			
Reflectance (dB)		-14.36	
Attn Coeff (dB/km)		0.11	

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Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 12:59:55
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		-0.14	0.75
Reflectance (dB)		-55.36	-35.00
Attn Coeff (dB/km)		0.19	
-1007.1 m OTDR Port			
Reflectance (dB)		-52.00	

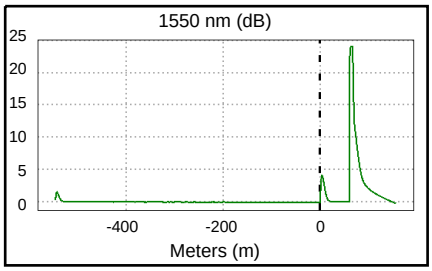
-WARNING: Negative Loss value found in test result.

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 12:59:55
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.24 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.75	
Overall Loss (dB)		-0.10	
ORL (dB)		51.97	
Events			
60.75 m End			
Reflectance (dB)		-15.39	
Attn Coeff (dB/km)		0.10	
0.00 m Launch Event	PASS		
Loss (dB)		-0.11	0.75
Reflectance (dB)		-55.91	-35.00
Attn Coeff (dB/km)		0.19	
-547.24 m OTDR Port			
Reflectance (dB)		-63.70	

-WARNING: Negative Loss value found in test result.

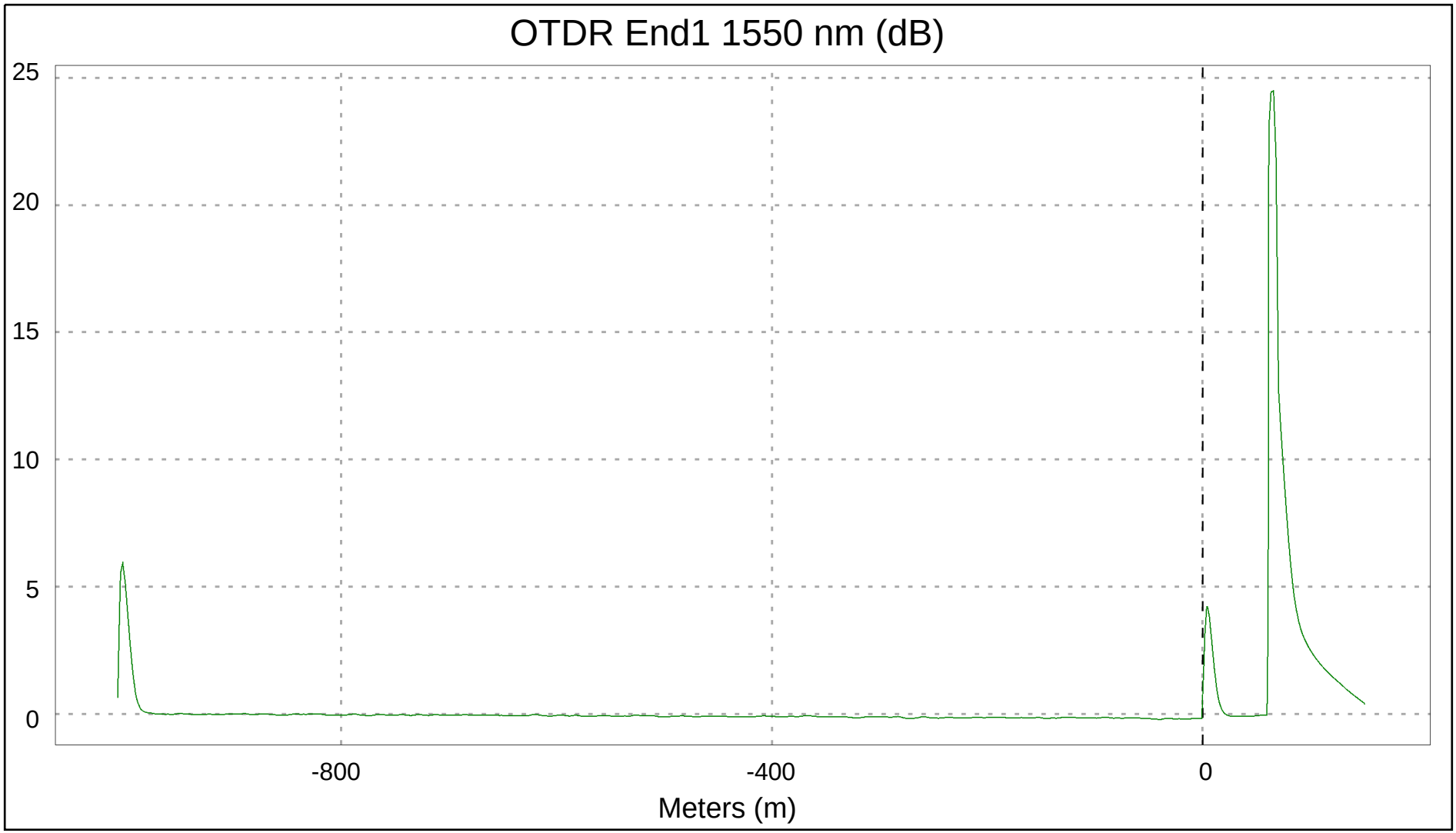
Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 12:59:55
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

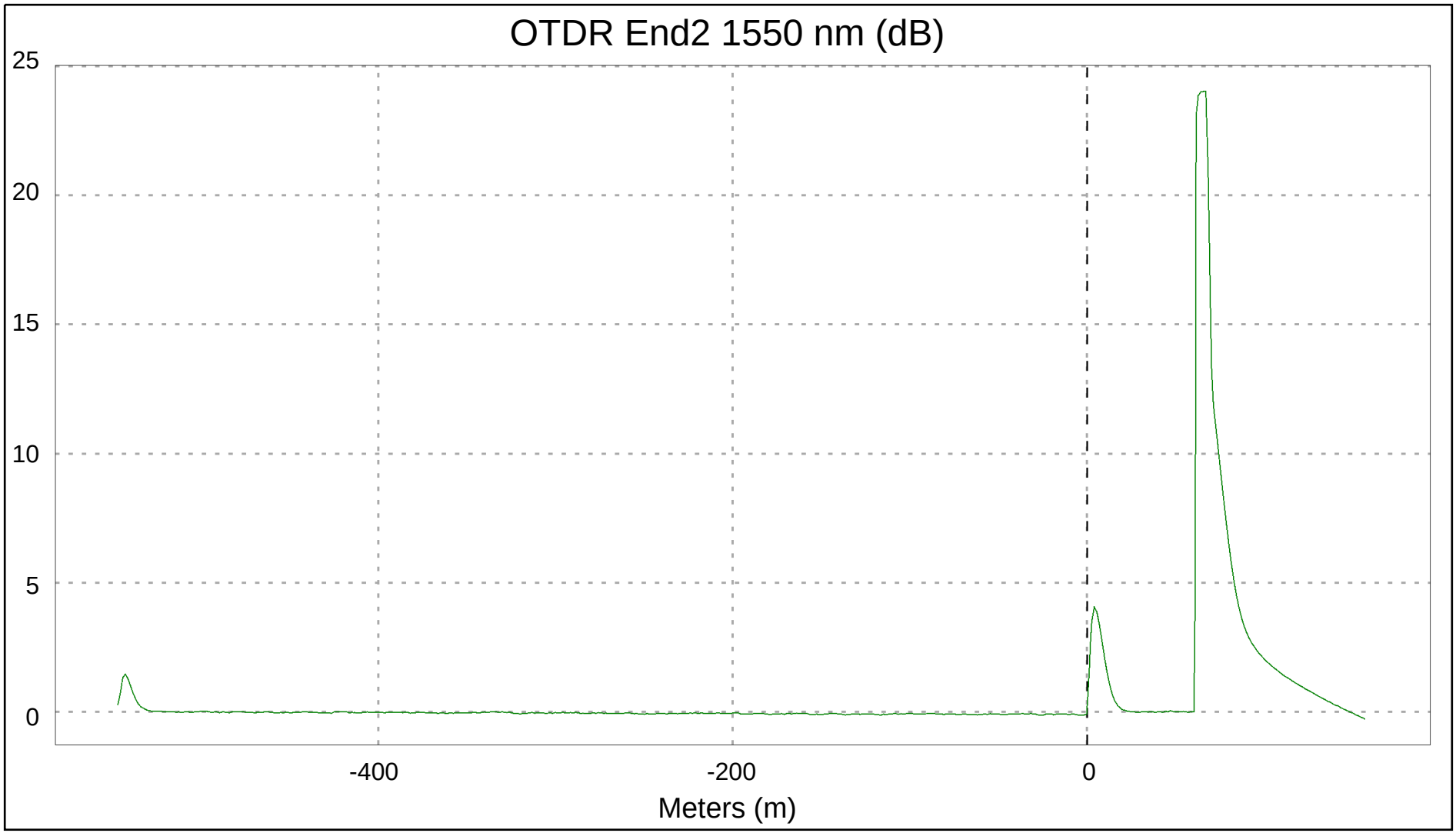
Cable ID: 002

Test Summary: PASS

Date / Time: 31-01-2025 12:59:55
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

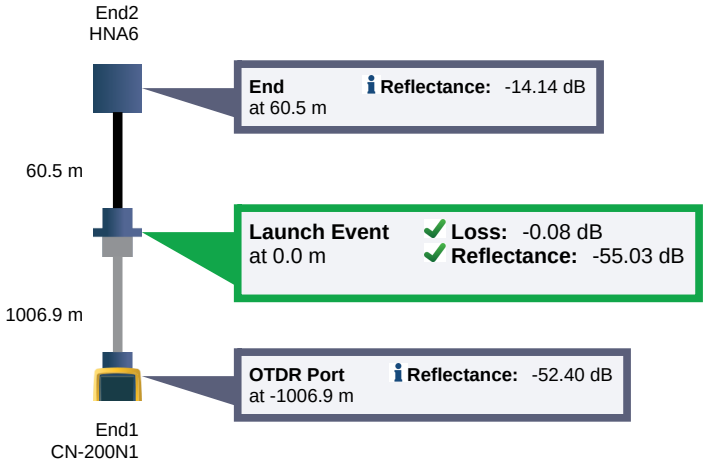
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 13:00:38
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.5 m
Overall Loss: -0.06 dB

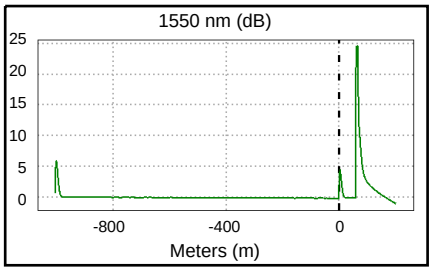


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:41:46
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.9 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1210 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.5	
Overall Loss (dB)		-0.06	
ORL (dB)		51.60	
Events			
60.5 m End			
Reflectance (dB)		-14.14	
Attn Coeff (dB/km)		0.44	

Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 13:00:38
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

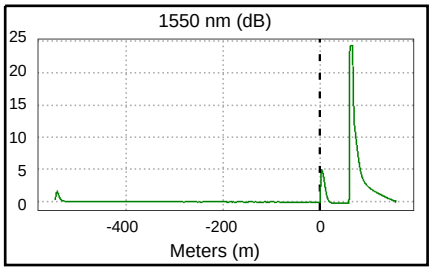
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		-0.08	0.75
Reflectance (dB)		-55.03	-35.00
Attn Coeff (dB/km)		0.19	
-1006.9 m OTDR Port			
Reflectance (dB)		-52.40	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:00:38
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.24 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.53	
Overall Loss (dB)		0.13	
ORL (dB)		51.37	
Events			
60.53 m End			
Reflectance (dB)		-14.40	
Attn Coeff (dB/km)		0.15	
0.00 m Launch Event	PASS		
Loss (dB)		0.13	0.75
Reflectance (dB)		-54.05	-35.00
Attn Coeff (dB/km)		0.18	
-547.24 m OTDR Port			
Reflectance (dB)		-63.36	

ROSETTI MARINO

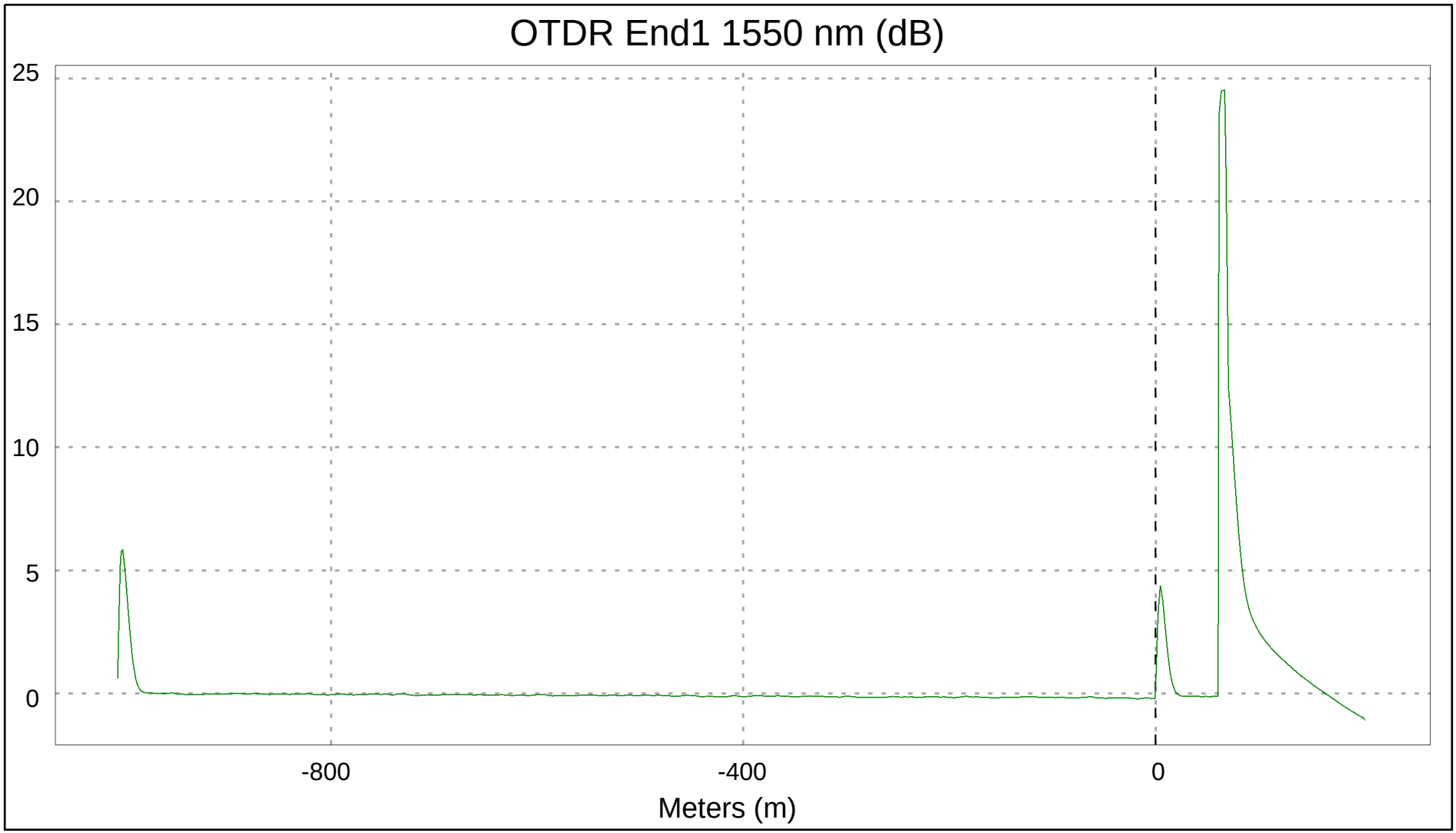
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 13:00:38
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

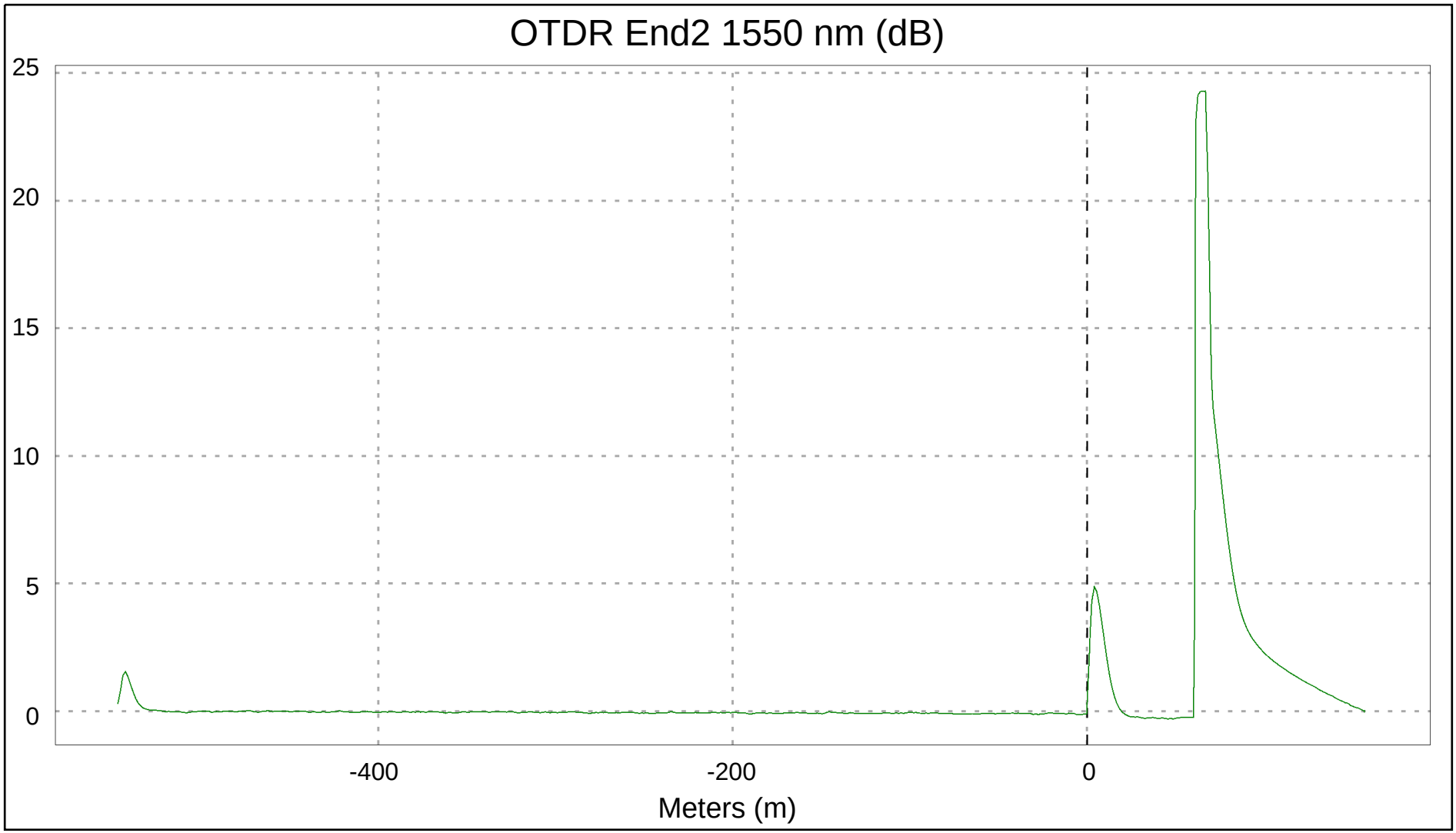
Cable ID: 003

Test Summary: PASS

Date / Time: 31-01-2025 13:00:38
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

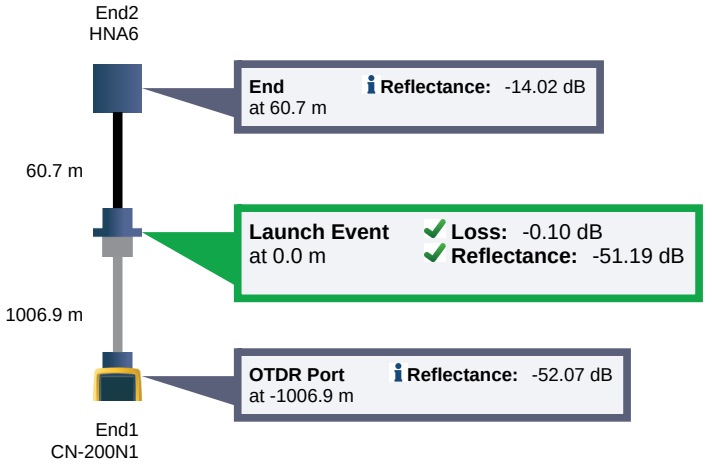
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 13:01:15
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.7 m
Overall Loss: -0.02 dB

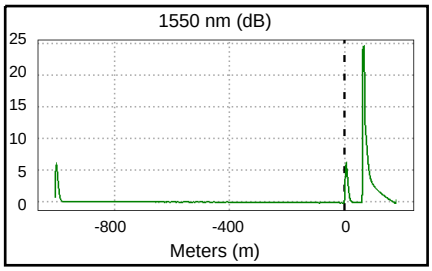


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:42:52
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.9 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1185 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	3 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.7	
Overall Loss (dB)		-0.02	
ORL (dB)		49.55	
Events			
60.7 m End			
Reflectance (dB)		-14.02	
Attn Coeff (dB/km)		1.34	

Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 13:01:15
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

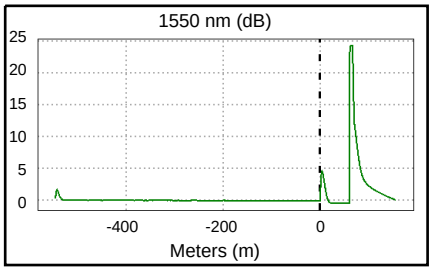
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		-0.10	0.75
Reflectance (dB)		-51.19	-35.00
Attn Coeff (dB/km)		0.19	
-1006.9 m OTDR Port			
Reflectance (dB)		-52.07	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:01:15
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.27 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.66	
Overall Loss (dB)		0.38	
ORL (dB)		51.94	
Events			
60.66 m End			
Reflectance (dB)		-13.86	
Attn Coeff (dB/km)		0.20	
0.00 m Launch Event	PASS		
Loss (dB)		0.37	0.75
Reflectance (dB)		-54.79	-35.00
Attn Coeff (dB/km)		0.20	
-547.27 m OTDR Port			
Reflectance (dB)		-63.18	

ROSETTI MARINO

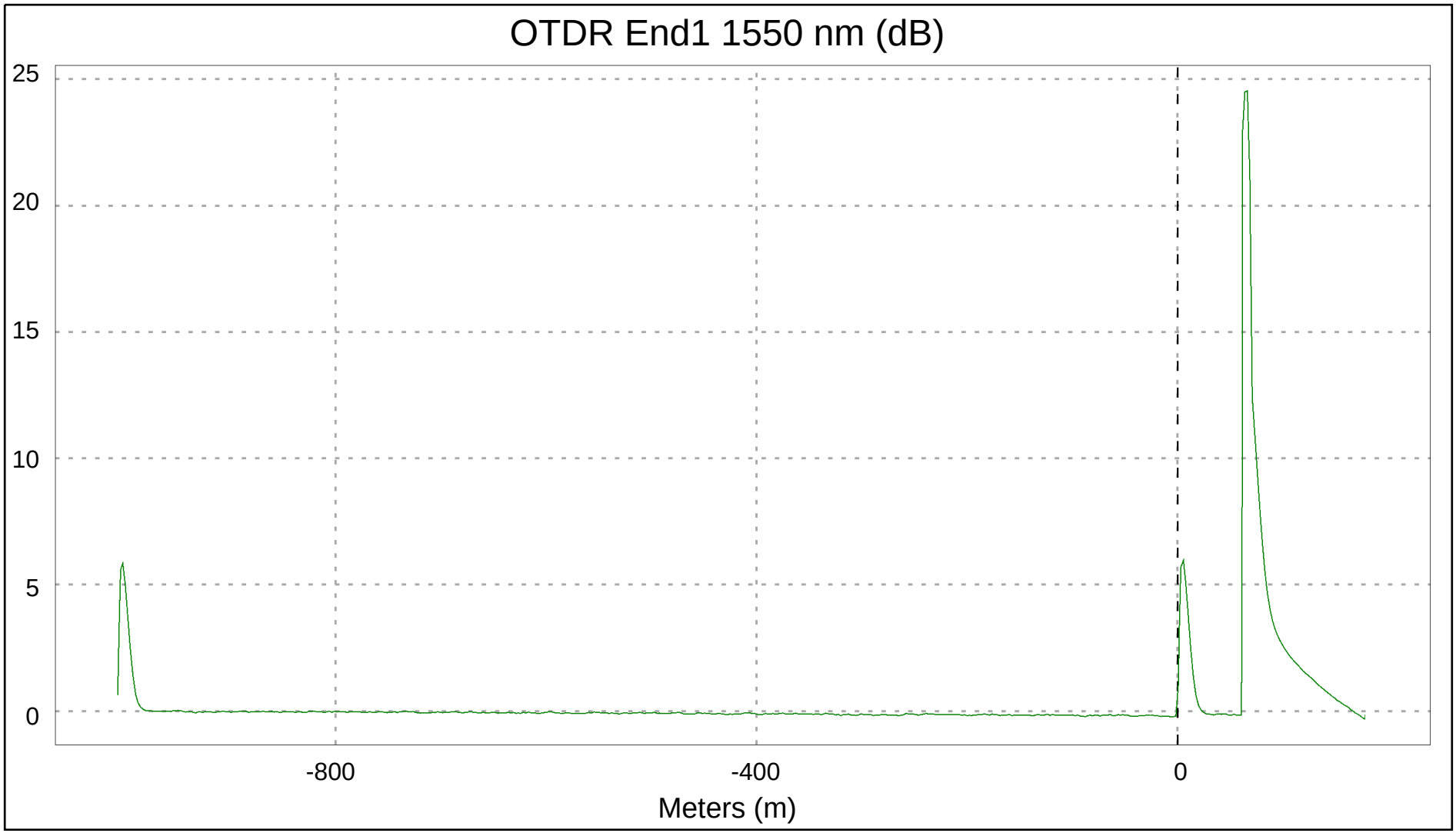
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 13:01:15
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

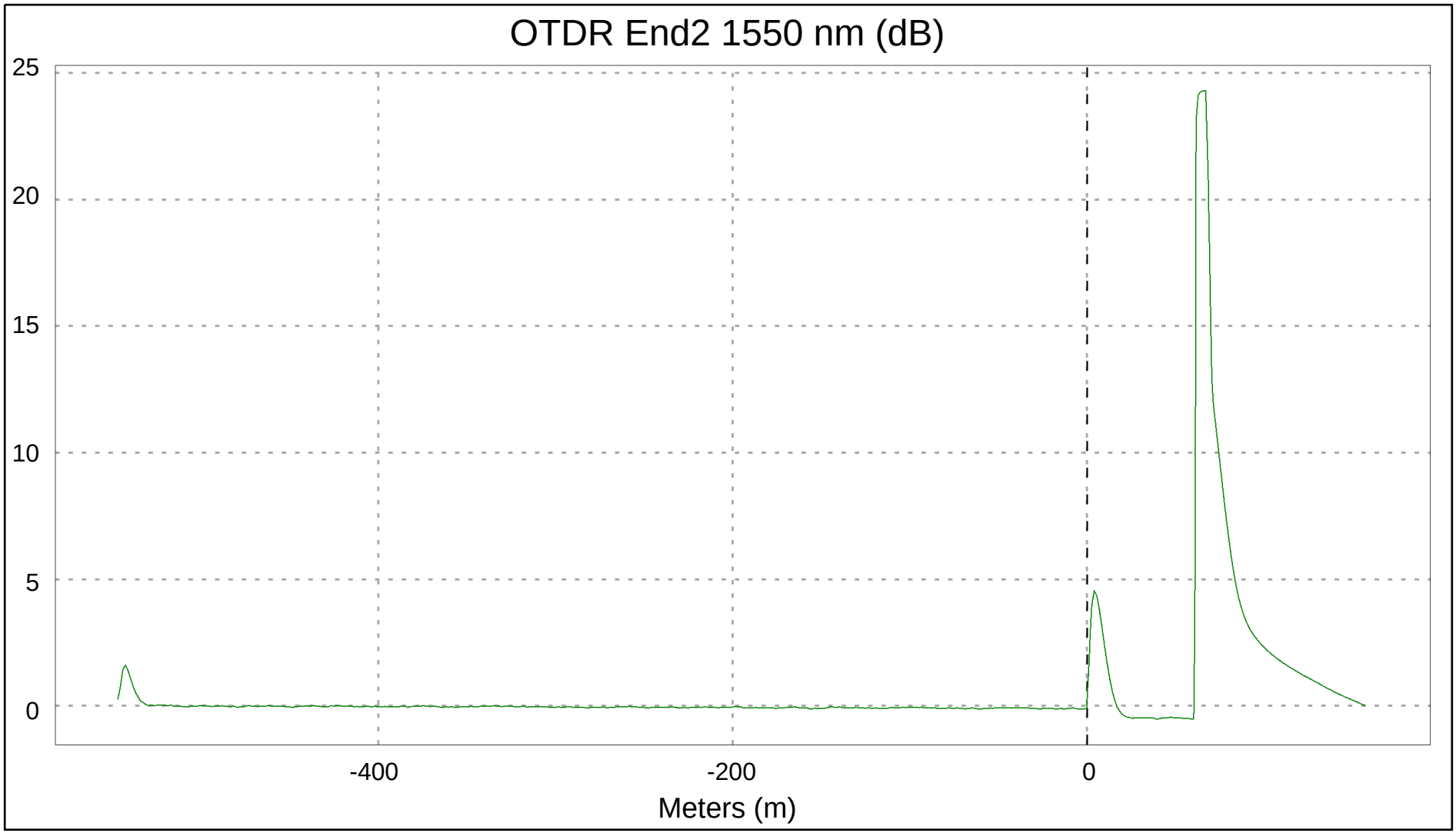
Cable ID: 004

Test Summary: PASS

Date / Time: 31-01-2025 13:01:15
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

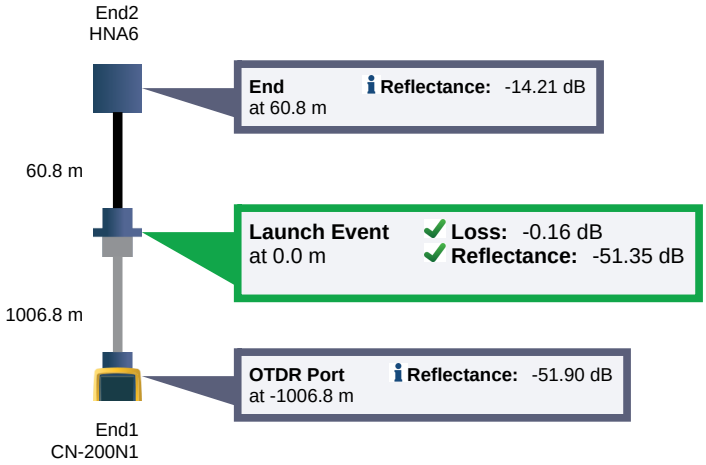
Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 13:01:50
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.8 m
Overall Loss: -0.13 dB

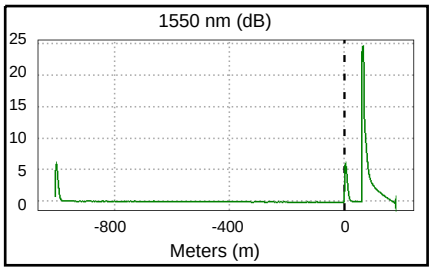


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:47:52
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.8 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1187 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	3 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.8	
Overall Loss (dB)		-0.13	
ORL (dB)		49.59	
Events			
60.8 m End			
Reflectance (dB)		-14.21	
Attn Coeff (dB/km)		0.44	

Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 13:01:50
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		-0.16	0.75
Reflectance (dB)		-51.35	-35.00
Attn Coeff (dB/km)		0.20	
-1006.8 m OTDR Port			
Reflectance (dB)		-51.90	

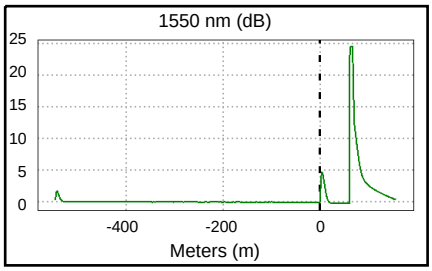
-WARNING: Negative Loss value found in test result.

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:01:50
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.21 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.75	
Overall Loss (dB)		0.18	
ORL (dB)		51.64	
Events			
60.75 m End			
Reflectance (dB)		-13.82	
Attn Coeff (dB/km)		0.44	
0.00 m Launch Event	PASS		
Loss (dB)		0.15	0.75
Reflectance (dB)		-54.56	-35.00
Attn Coeff (dB/km)		0.19	
-547.21 m OTDR Port			
Reflectance (dB)		-62.99	

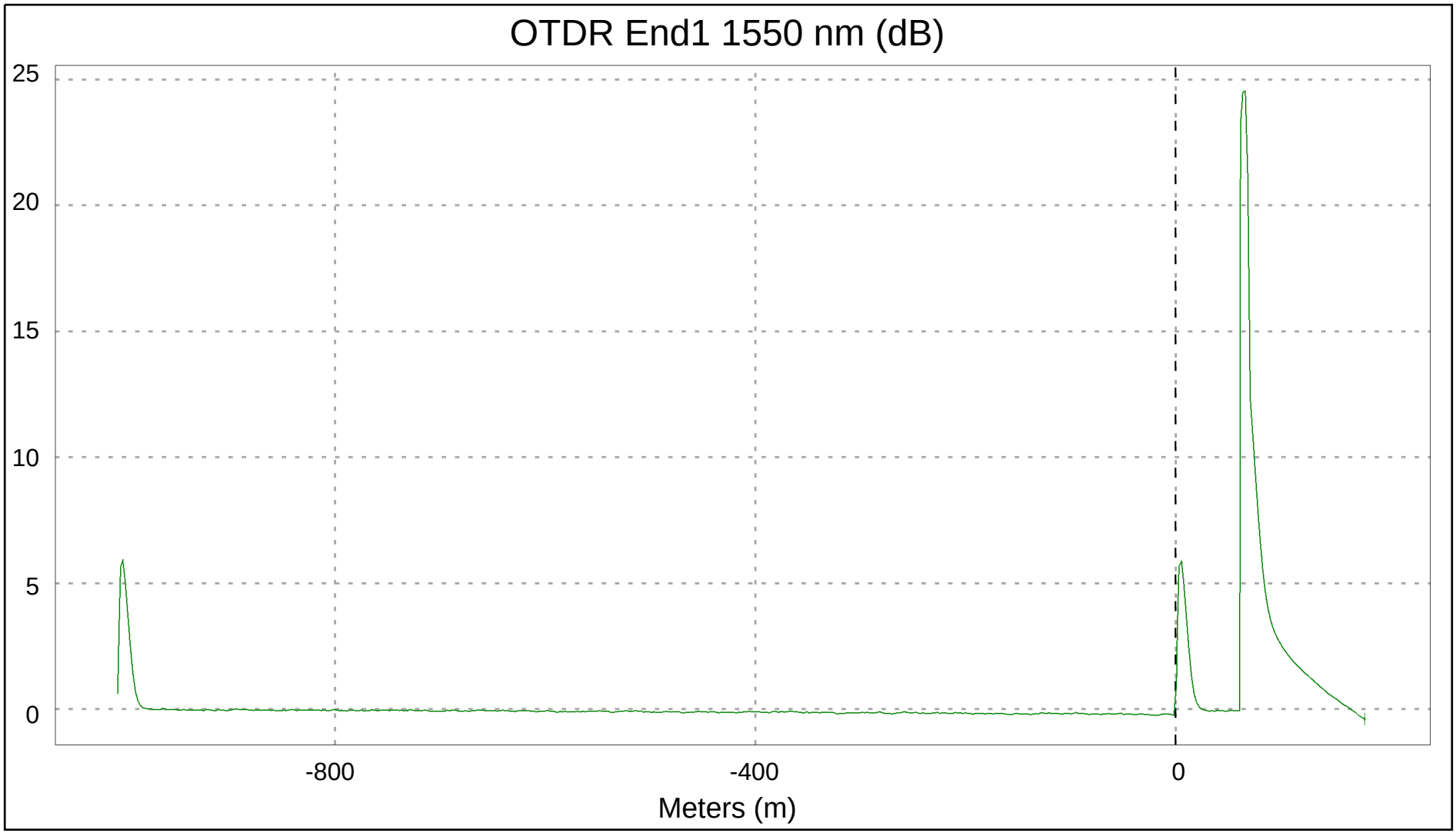
Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 13:01:50
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

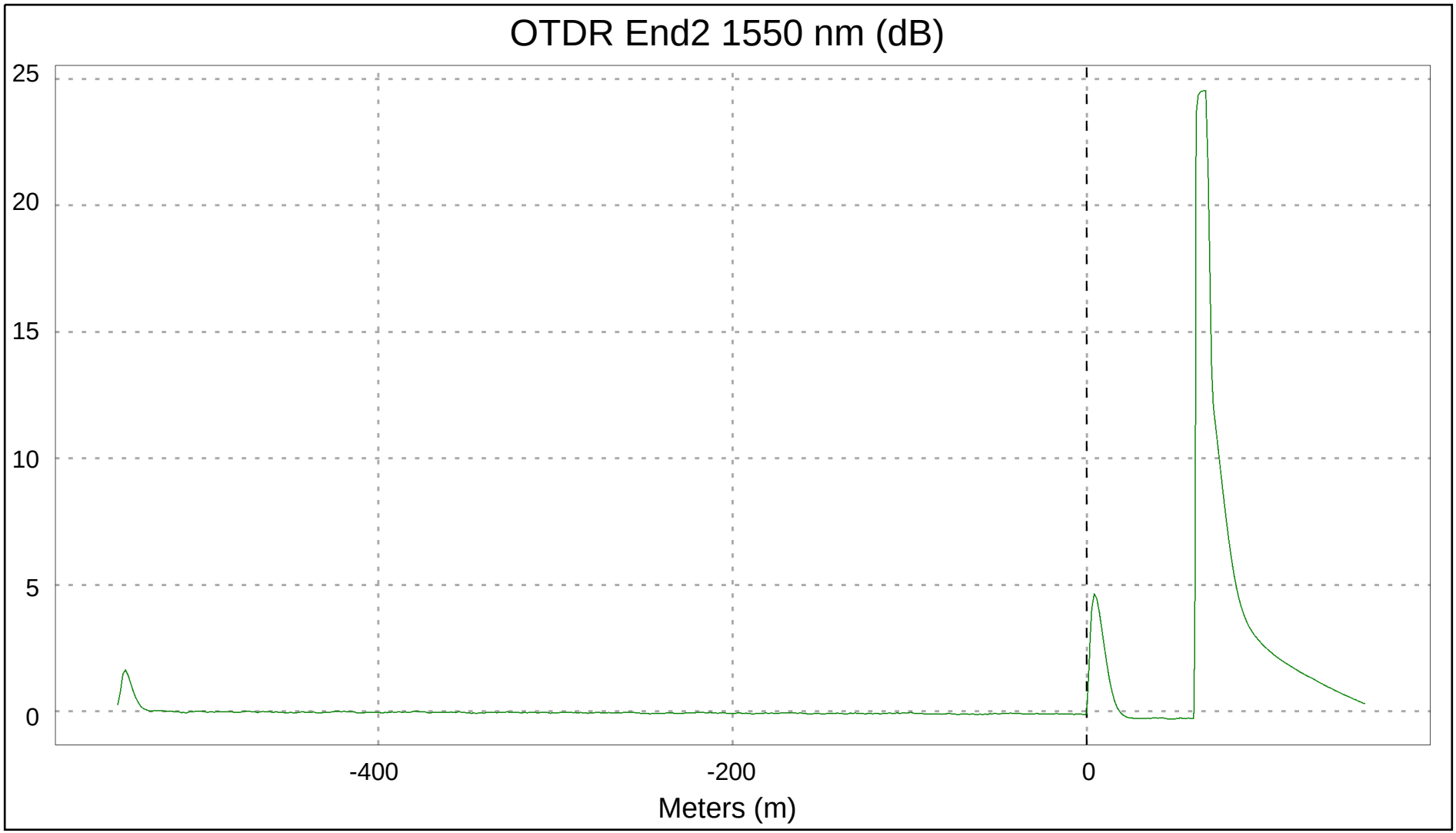
Cable ID: 005

Test Summary: PASS

Date / Time: 31-01-2025 13:01:50
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

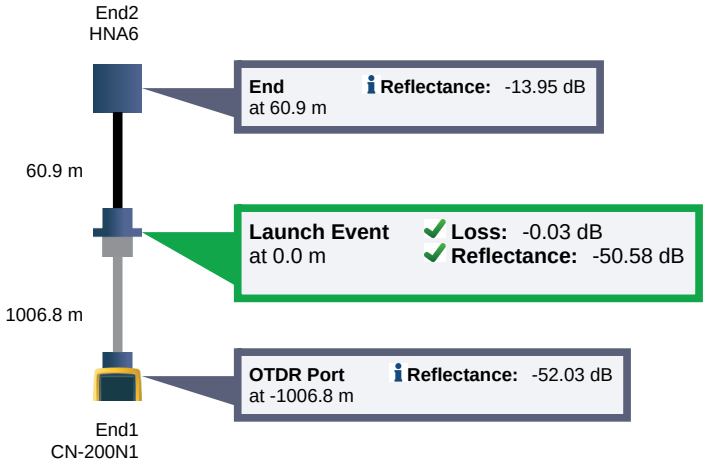
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 13:02:26
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.9 m
Overall Loss: -0.02 dB

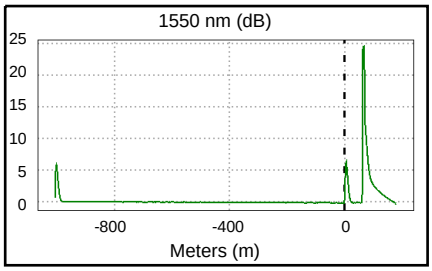


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:43:49
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.8 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1185 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	3 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.9	
Overall Loss (dB)		-0.02	
ORL (dB)		49.15	
Events			
60.9 m End			
Reflectance (dB)		-13.95	
Attn Coeff (dB/km)		0.17	

Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 13:02:26
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

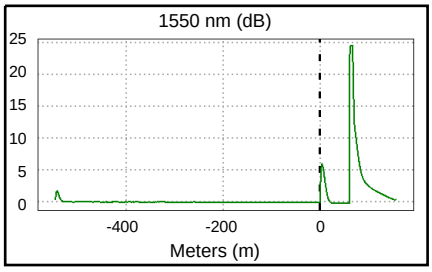
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		-0.03	0.75
Reflectance (dB)		-50.58	-35.00
Attn Coeff (dB/km)		0.20	
-1006.8 m OTDR Port			
Reflectance (dB)		-52.03	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:02:26
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.15 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.85	
Overall Loss (dB)		0.15	
ORL (dB)		50.11	
Events			
60.85 m End			
Reflectance (dB)		-13.92	
Attn Coeff (dB/km)		0.11	
0.00 m Launch Event	PASS		
Loss (dB)		0.14	0.75
Reflectance (dB)		-51.89	-35.00
Attn Coeff (dB/km)		0.17	
-547.15 m OTDR Port			
Reflectance (dB)		-62.77	

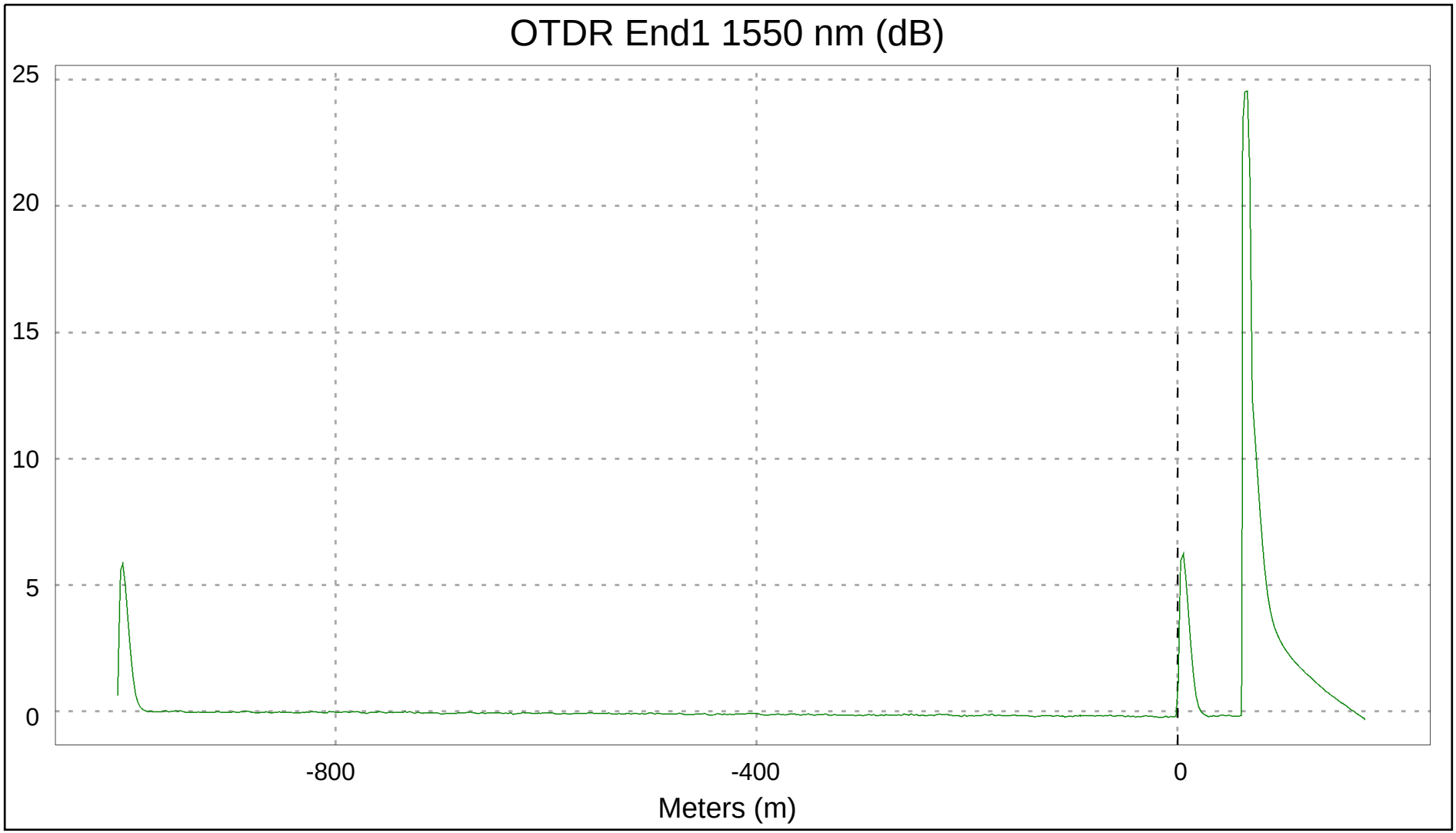
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 13:02:26
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

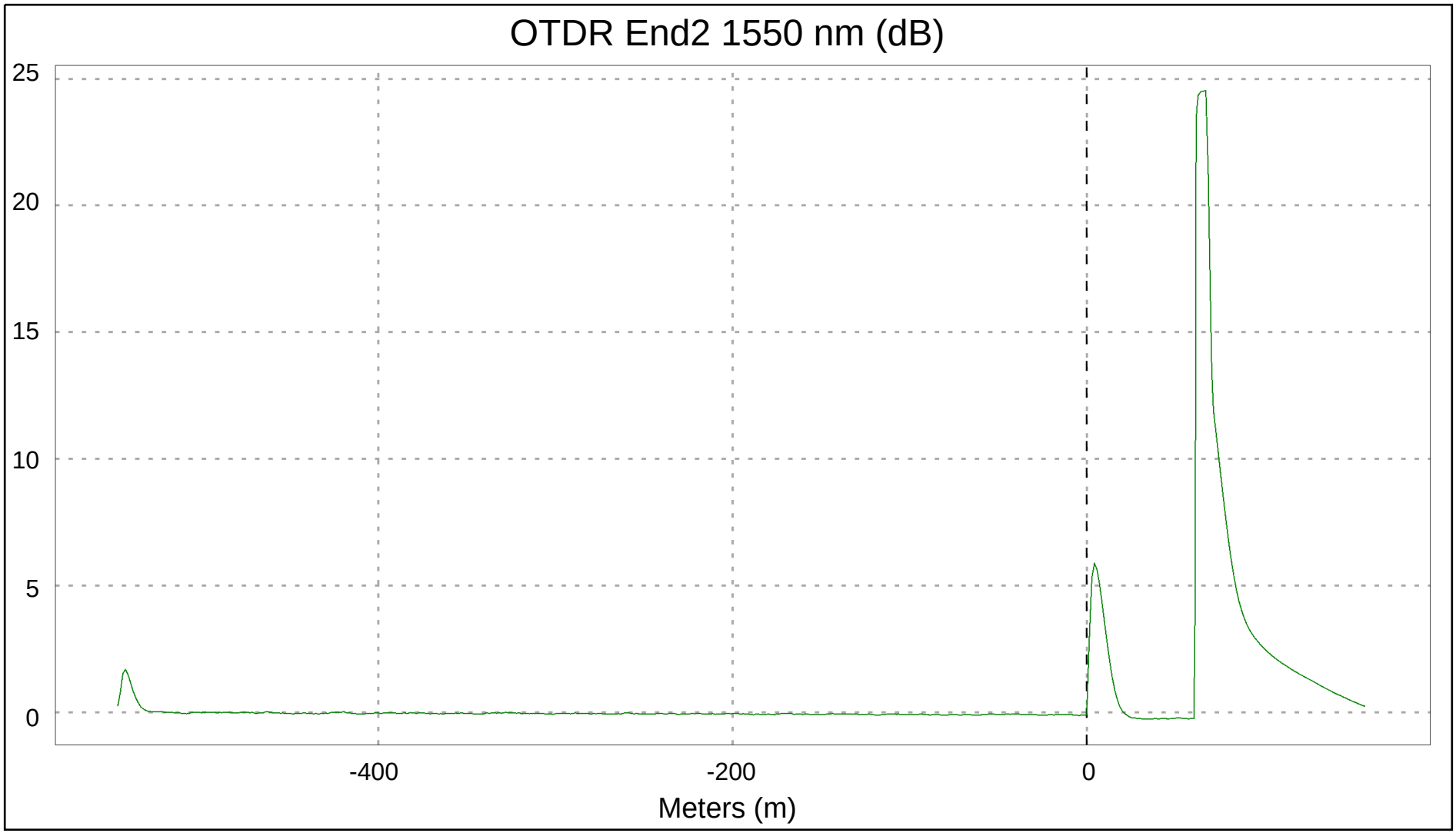
Cable ID: 006

Test Summary: PASS

Date / Time: 31-01-2025 13:02:26
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

ROSETTI MARINO

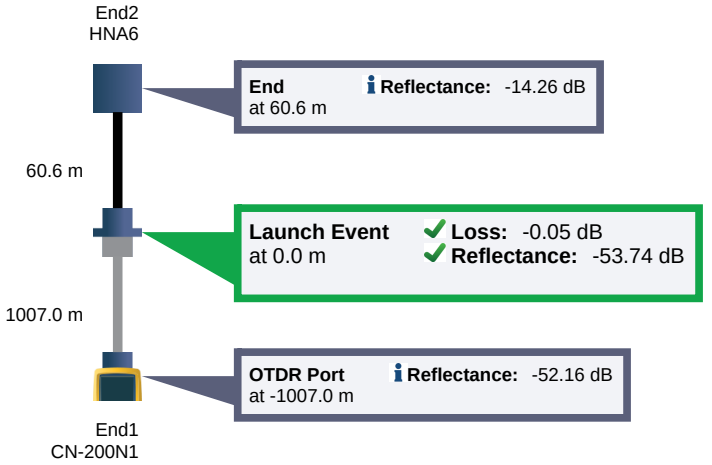
Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 13:02:55
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.6 m
Overall Loss: 0.00 dB

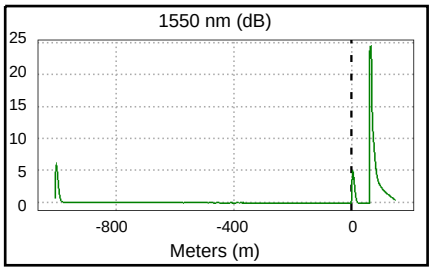


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:42:23
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1007.0 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1158 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.6	
Overall Loss (dB)		0.00	
ORL (dB)		51.02	
Events			
60.6 m End			
Reflectance (dB)		-14.26	
Attn Coeff (dB/km)		0.72	

Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 13:02:55
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

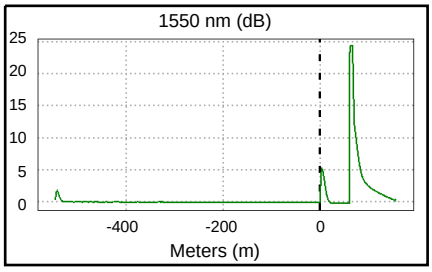
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		-0.05	0.75
Reflectance (dB)		-53.74	-35.00
Attn Coeff (dB/km)		0.19	
-1007.0 m OTDR Port			
Reflectance (dB)		-52.16	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:02:55
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.31 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.66	
Overall Loss (dB)		0.13	
ORL (dB)		51.02	
Events			
60.66 m End			
Reflectance (dB)		-14.24	
Attn Coeff (dB/km)		0.19	
0.00 m Launch Event	PASS		
Loss (dB)		0.11	0.75
Reflectance (dB)		-53.44	-35.00
Attn Coeff (dB/km)		0.17	
-547.31 m OTDR Port			
Reflectance (dB)		-62.66	

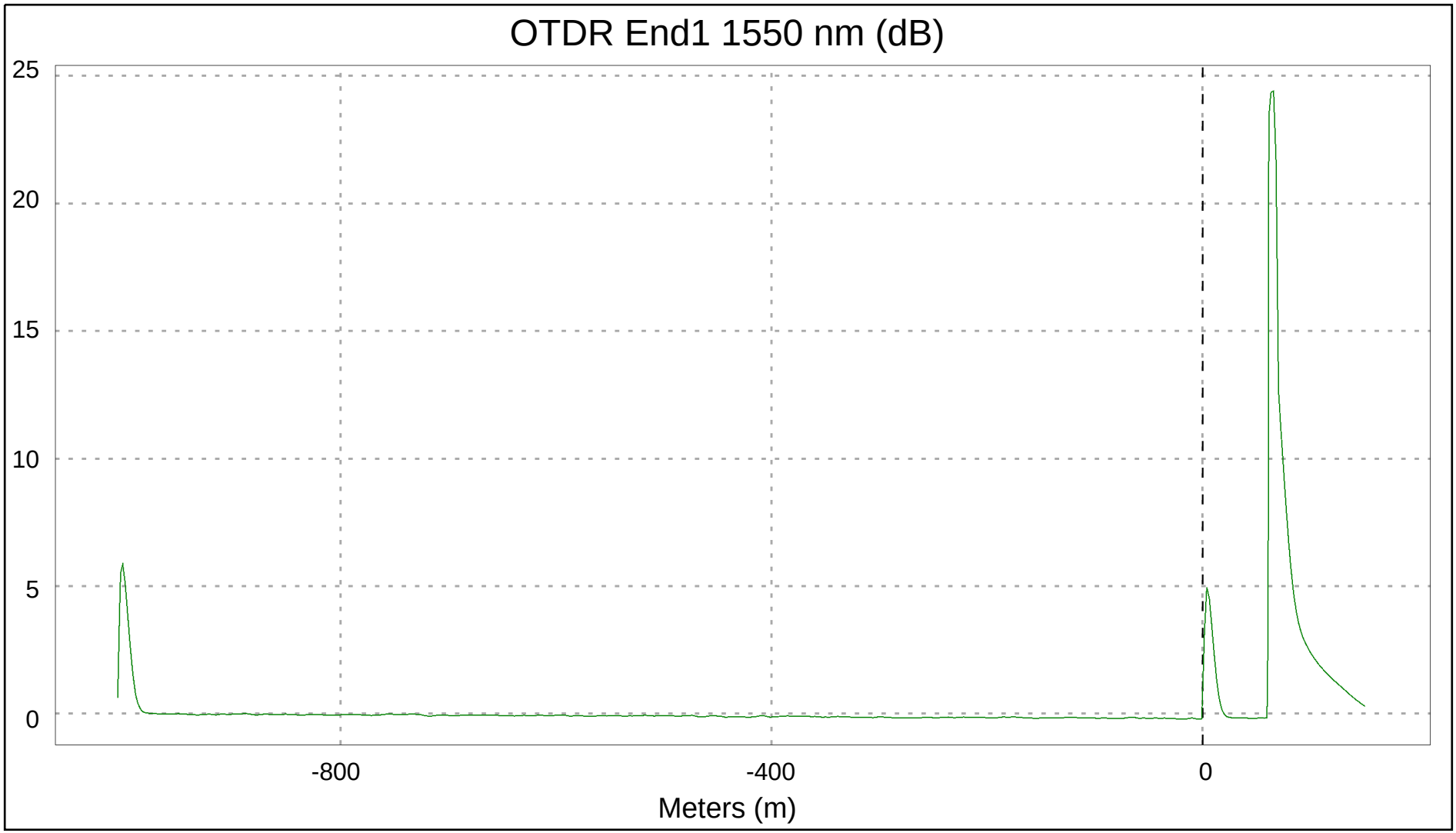
Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 13:02:55
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

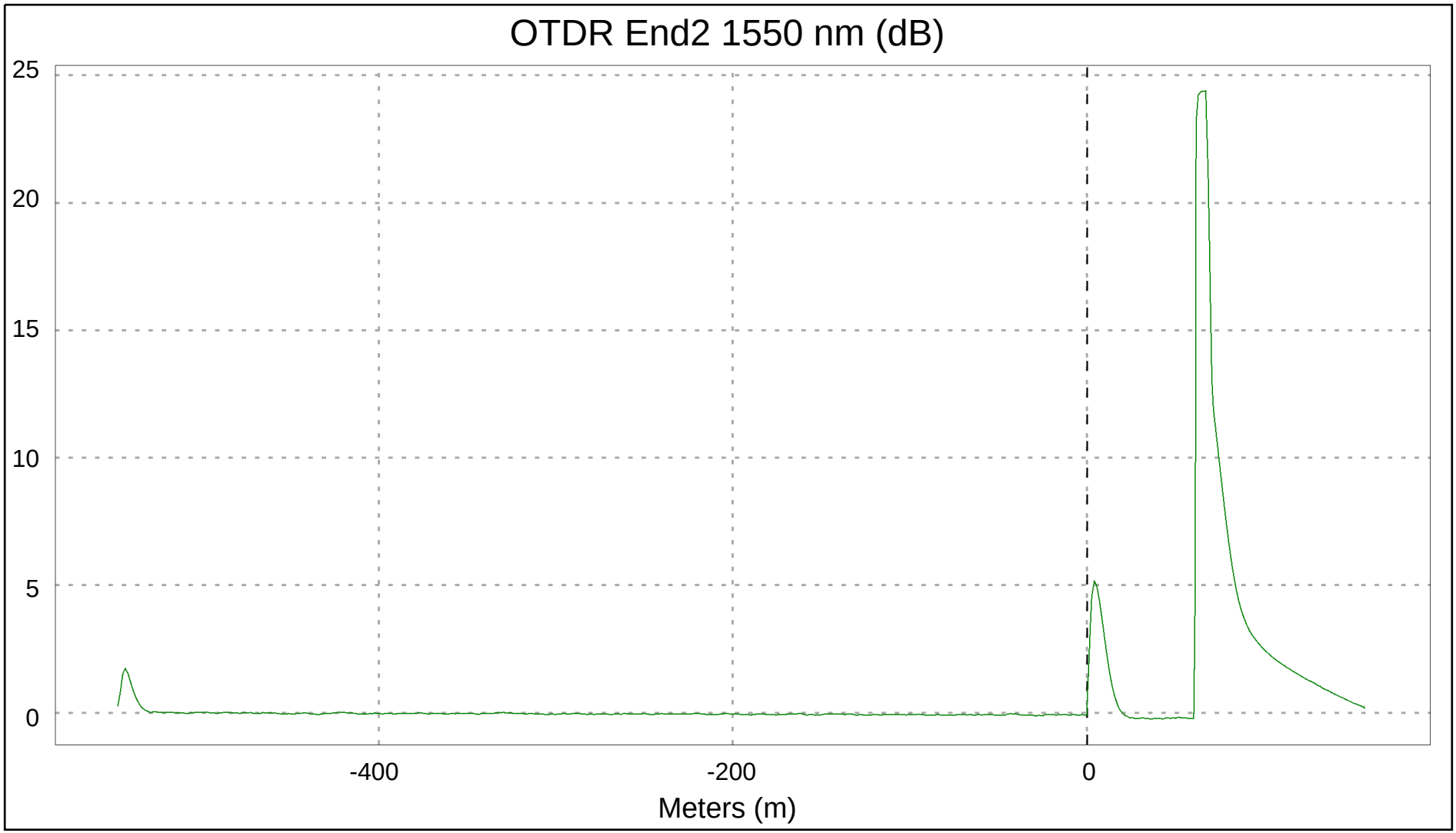
Cable ID: 007

Test Summary: PASS

Date / Time: 31-01-2025 13:02:55
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

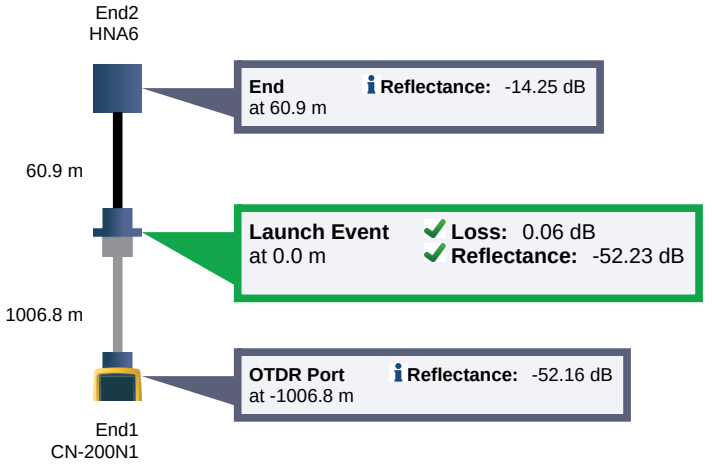
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 13:03:36
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.9 m
Overall Loss: 0.06 dB

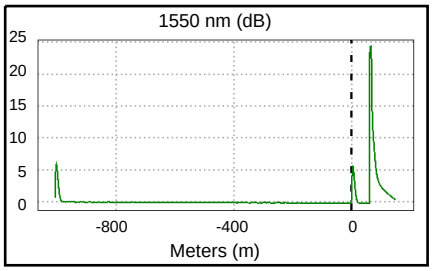


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:44:16
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.8 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1158 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.9	
Overall Loss (dB)		0.06	
ORL (dB)		50.17	
Events			
60.9 m End			
Reflectance (dB)		-14.25	
Attn Coeff (dB/km)		0.00	

Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 13:03:36
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

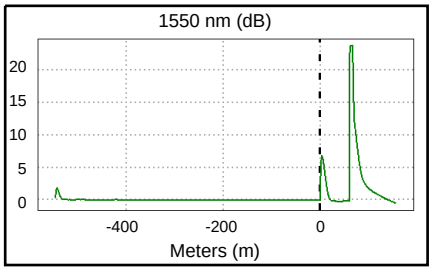
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		0.06	0.75
Reflectance (dB)		-52.23	-35.00
Attn Coeff (dB/km)		0.20	
-1006.8 m OTDR Port			
Reflectance (dB)		-52.16	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:03:36
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.08 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.91	
Overall Loss (dB)		0.13	
ORL (dB)		48.97	
Events			
60.91 m End			
Reflectance (dB)		-15.44	
Attn Coeff (dB/km)		0.31	
0.00 m Launch Event	PASS		
Loss (dB)		0.11	0.75
Reflectance (dB)		-50.20	-35.00
Attn Coeff (dB/km)		0.17	
-547.08 m OTDR Port			
Reflectance (dB)		-62.54	

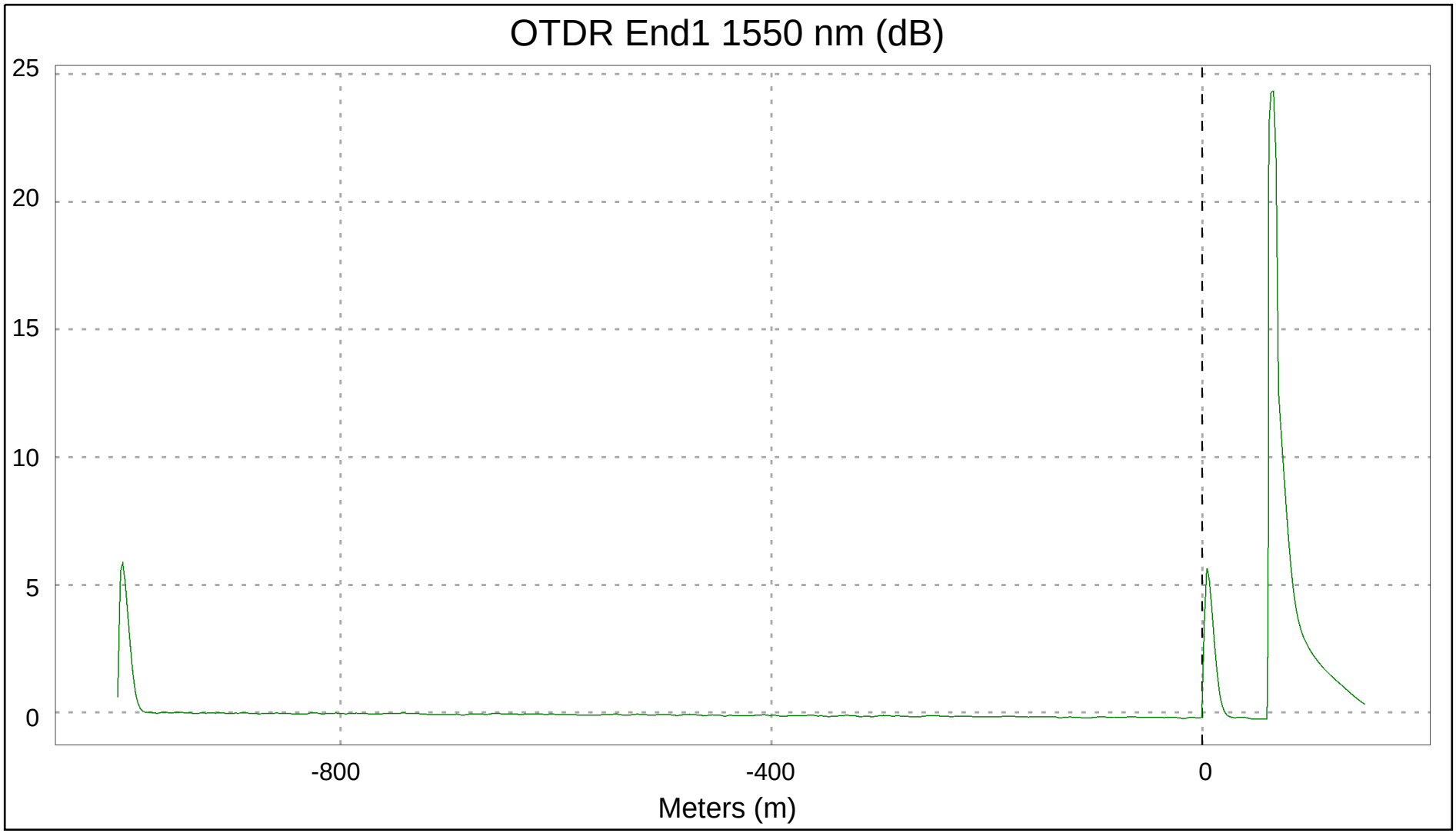
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 13:03:36
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

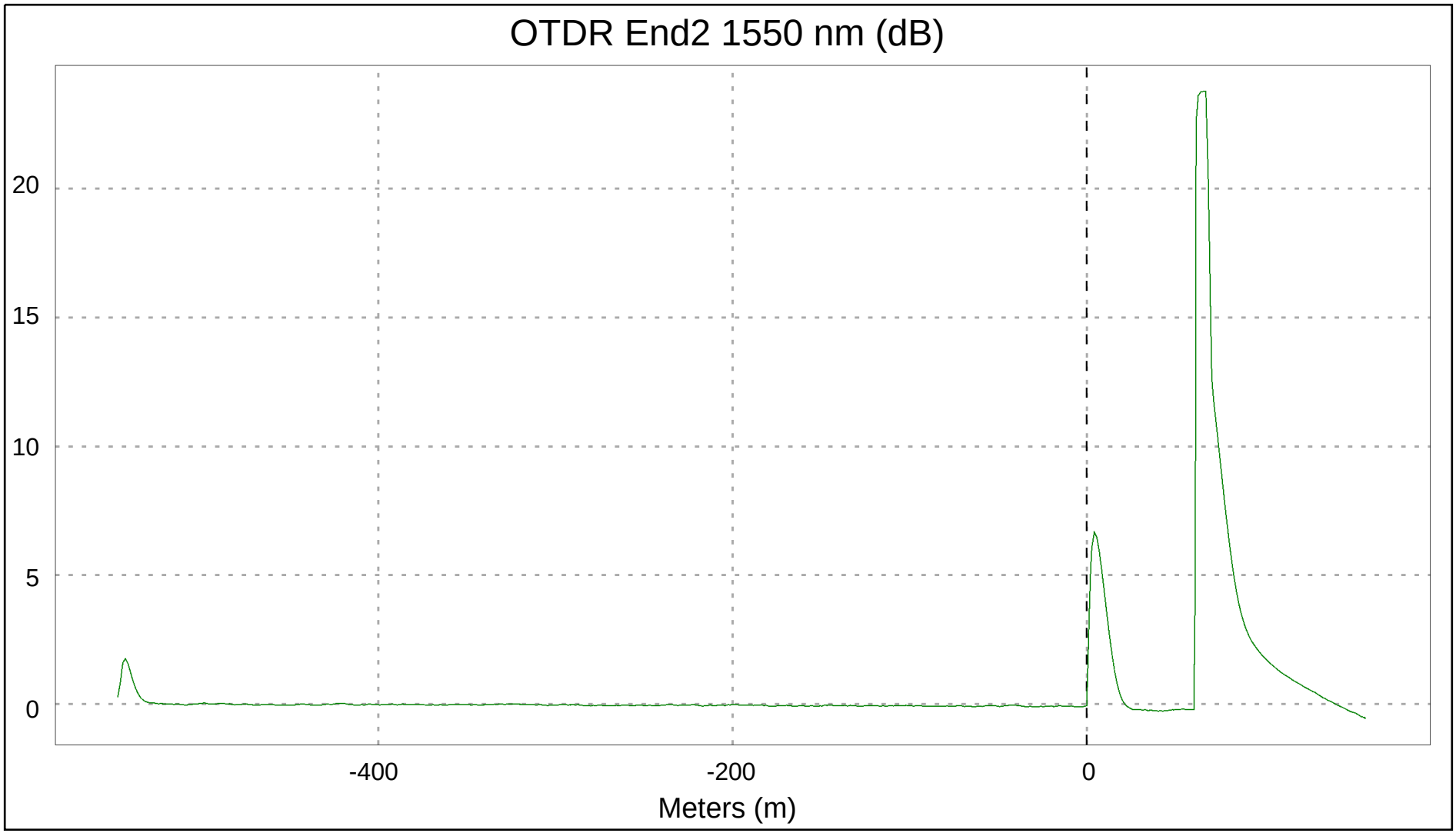
Cable ID: 008

Test Summary: PASS

Date / Time: 31-01-2025 13:03:36
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

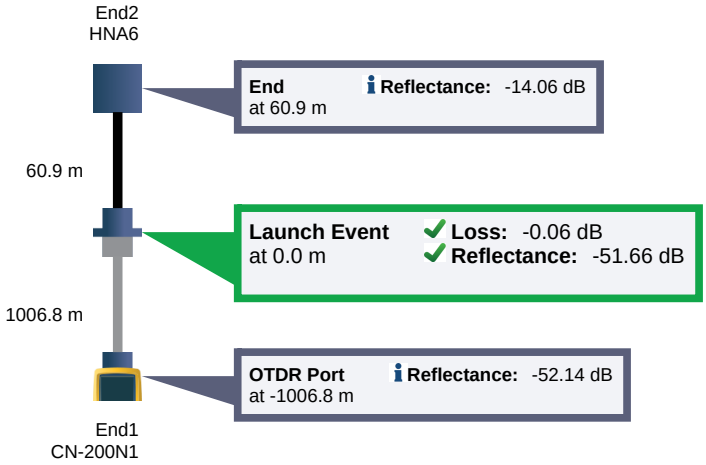
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 13:05:17
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.9 m
Overall Loss: -0.05 dB

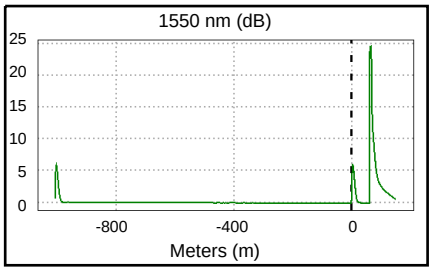


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:44:47
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.8 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1158 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.9	
Overall Loss (dB)		-0.05	
ORL (dB)		49.74	
Events			
60.9 m End			
Reflectance (dB)		-14.06	
Attn Coeff (dB/km)		0.13	

Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 13:05:17
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

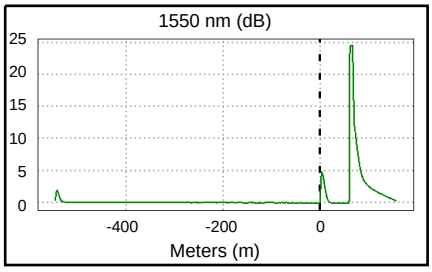
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		-0.06	0.75
Reflectance (dB)		-51.66	-35.00
Attn Coeff (dB/km)		0.20	
-1006.8 m OTDR Port			
Reflectance (dB)		-52.14	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:05:17
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.24 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.72	
Overall Loss (dB)		0.08	
ORL (dB)		51.53	
Events			
60.72 m End			
Reflectance (dB)		-13.98	
Attn Coeff (dB/km)		0.00	
0.00 m Launch Event	PASS		
Loss (dB)		0.08	0.75
Reflectance (dB)		-54.58	-35.00
Attn Coeff (dB/km)		0.20	
-547.24 m OTDR Port			
Reflectance (dB)		-62.28	

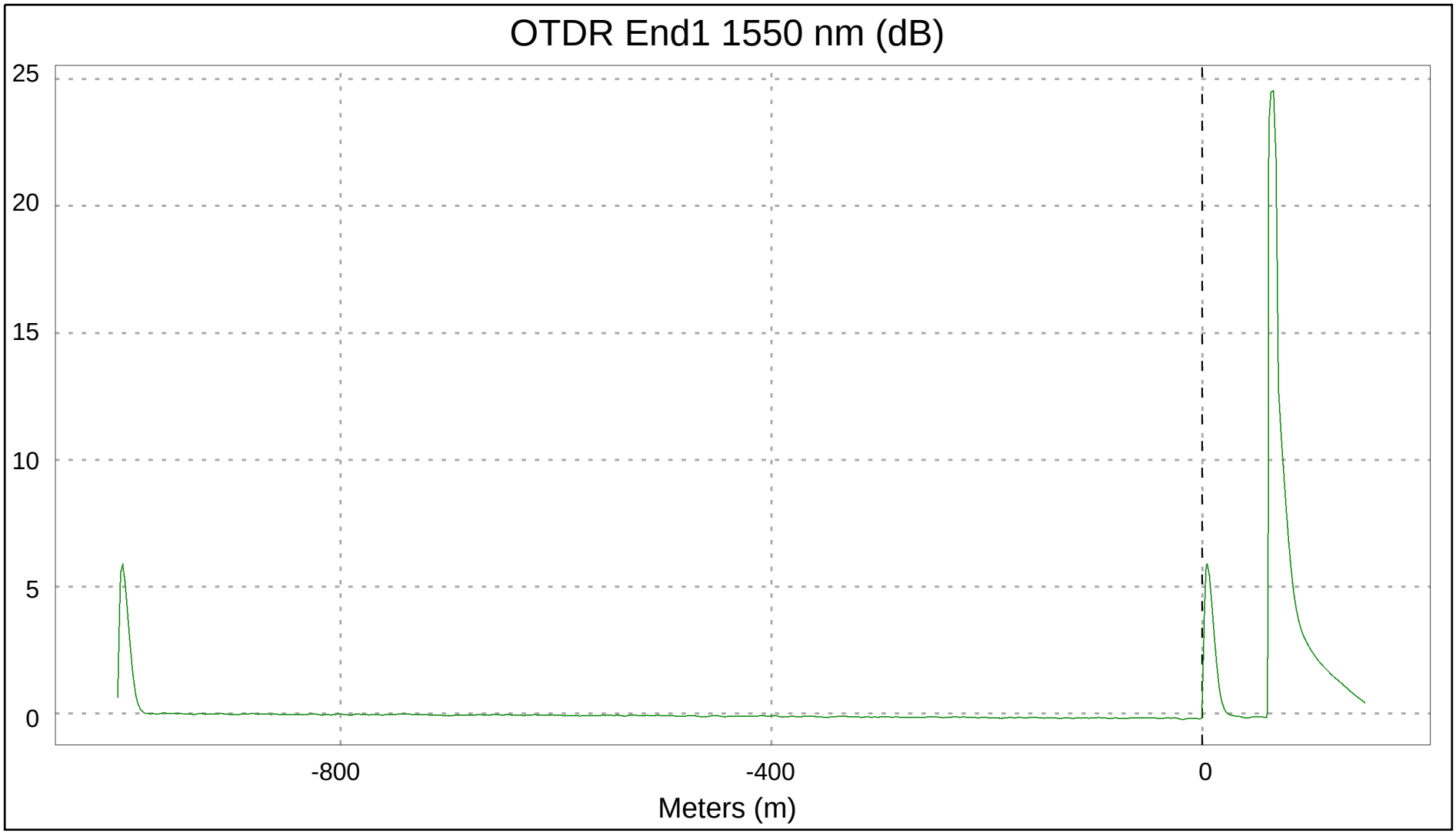
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 13:05:17
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



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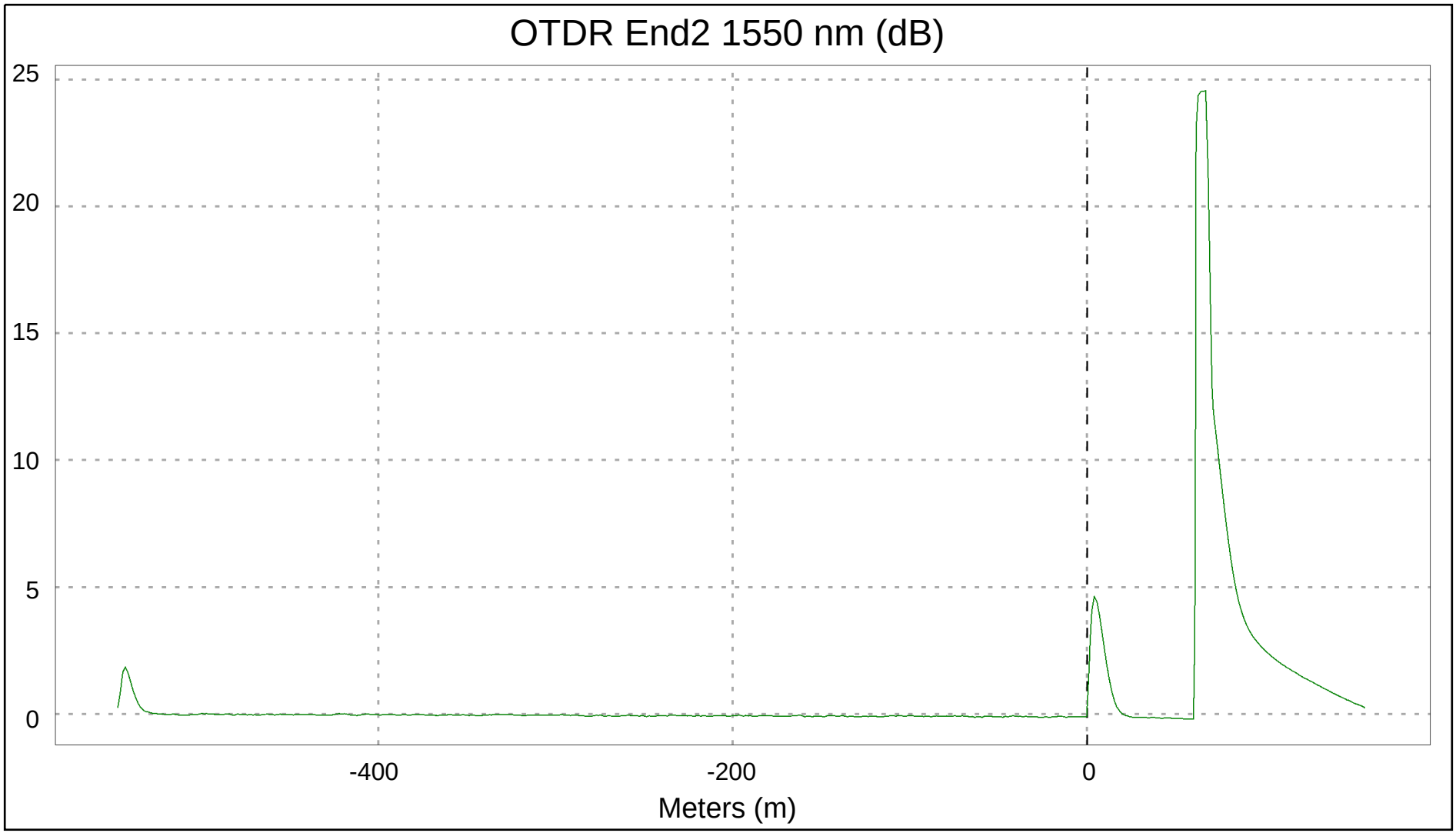
Cable ID: 009

Test Summary: PASS

Date / Time: 31-01-2025 13:05:17
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



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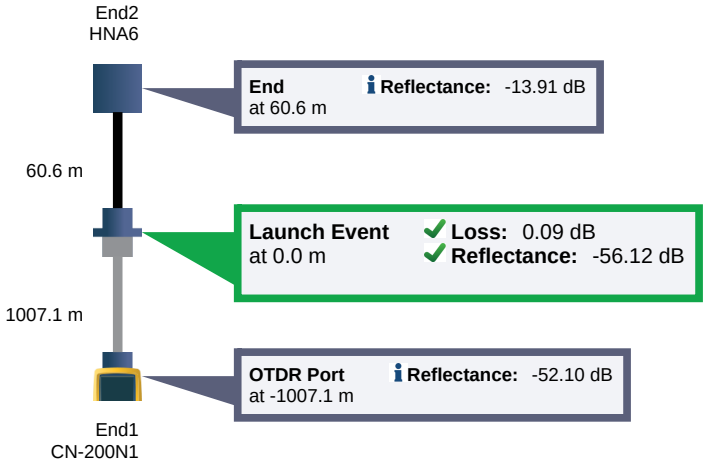
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 13:05:50
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.6 m
Overall Loss: 0.11 dB

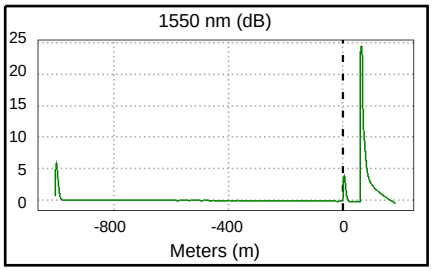


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:45:25
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1007.1 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1193 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.6	
Overall Loss (dB)		0.11	
ORL (dB)		52.21	
Events			
60.6 m End			
Reflectance (dB)		-13.91	
Attn Coeff (dB/km)		0.33	

Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 13:05:50
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

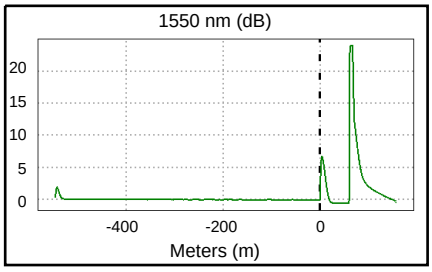
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		0.09	0.75
Reflectance (dB)		-56.12	-35.00
Attn Coeff (dB/km)		0.19	
-1007.1 m OTDR Port			
Reflectance (dB)		-52.10	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:05:50
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.11 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.91	
Overall Loss (dB)		0.54	
ORL (dB)		49.21	
Events			
60.91 m End			
Reflectance (dB)		-14.18	
Attn Coeff (dB/km)		0.30	
0.00 m Launch Event	PASS		
Loss (dB)		0.53	0.75
Reflectance (dB)		-50.30	-35.00
Attn Coeff (dB/km)		0.18	
-547.11 m OTDR Port			
Reflectance (dB)		-62.21	

ROSETTI MARINO

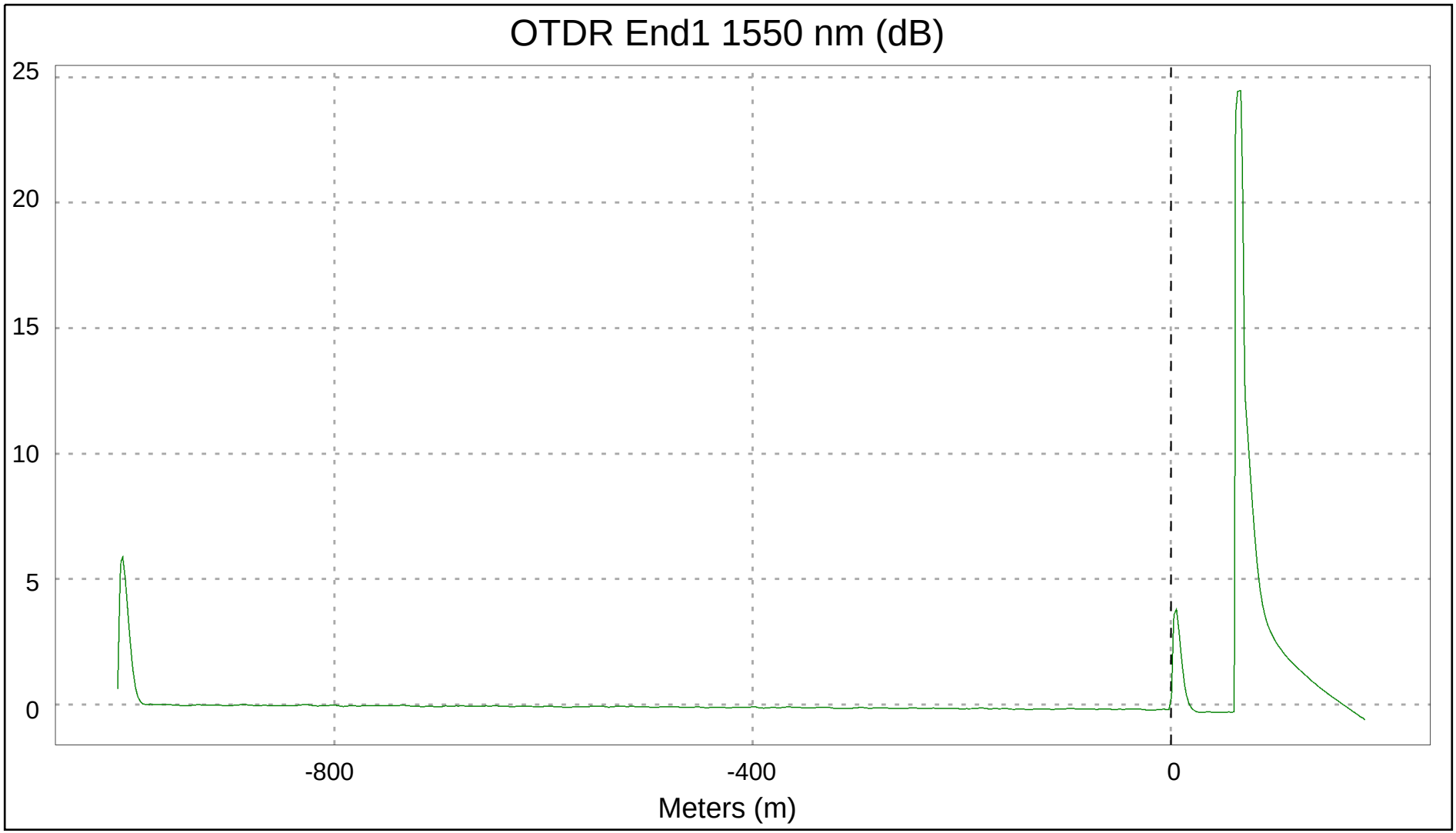
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 13:05:50
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

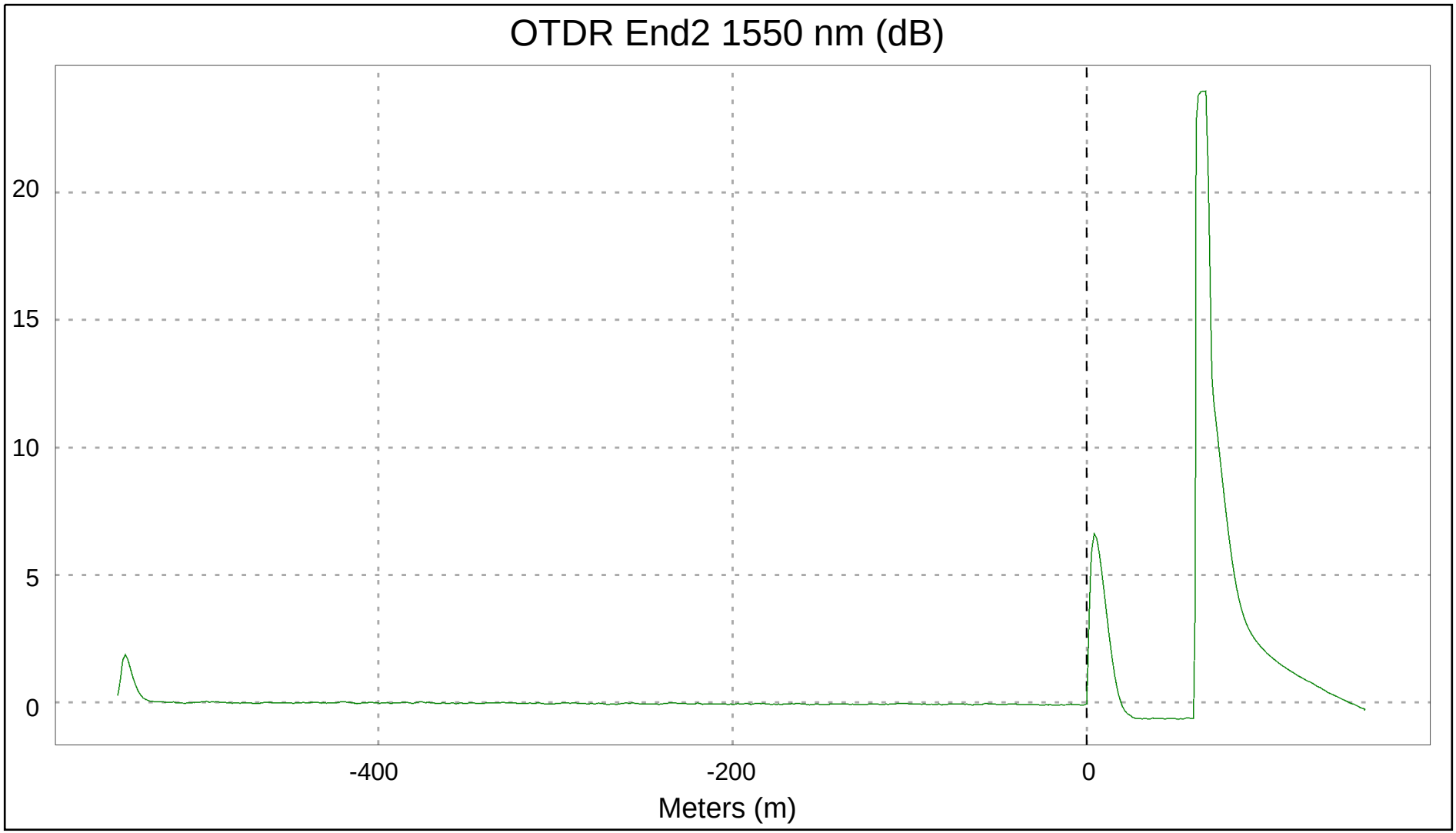
Cable ID: 010

Test Summary: PASS

Date / Time: 31-01-2025 13:05:50
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

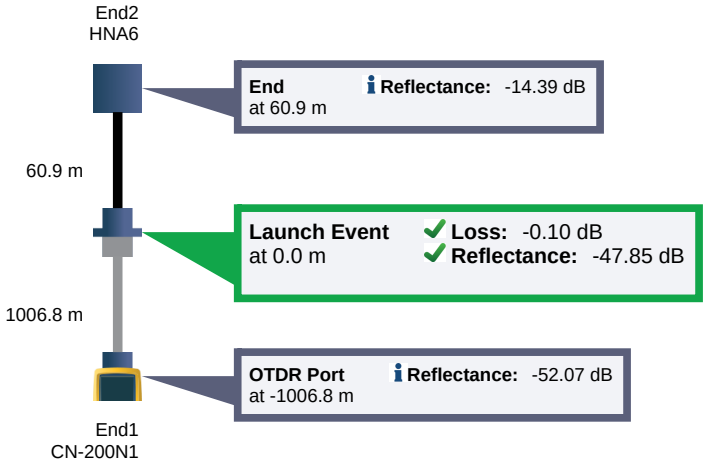
Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 13:07:52
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.9 m
Overall Loss: -0.09 dB

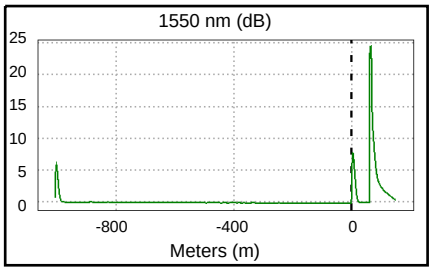


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:45:50
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.8 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1158 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.9	
Overall Loss (dB)		-0.09	
ORL (dB)		46.99	
Events			
60.9 m End			
Reflectance (dB)		-14.39	
Attn Coeff (dB/km)		0.19	

Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 13:07:52
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

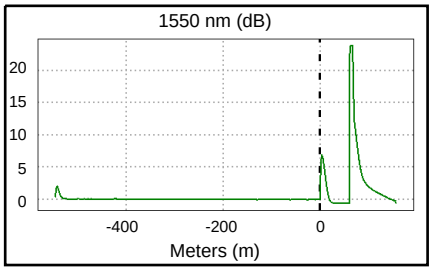
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		-0.10	0.75
Reflectance (dB)		-47.85	-35.00
Attn Coeff (dB/km)		0.20	
-1006.8 m OTDR Port			
Reflectance (dB)		-52.07	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:07:52
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.08 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.95	
Overall Loss (dB)		0.55	
ORL (dB)		49.04	
Events			
60.95 m End			
Reflectance (dB)		-14.31	
Attn Coeff (dB/km)		0.13	
0.00 m Launch Event	PASS		
Loss (dB)		0.54	0.75
Reflectance (dB)		-50.06	-35.00
Attn Coeff (dB/km)		0.19	
-547.08 m OTDR Port			
Reflectance (dB)		-61.88	

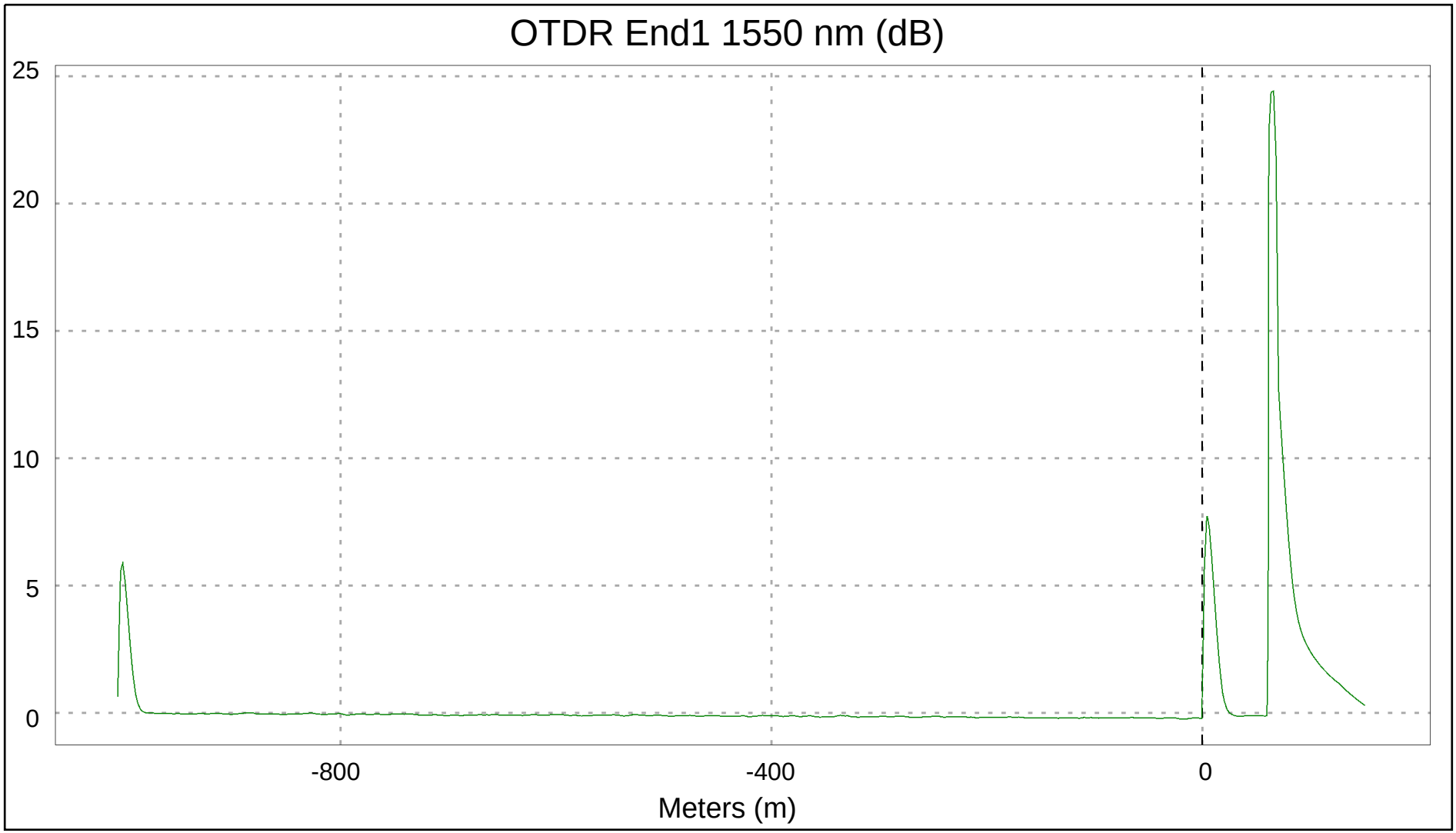
Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 13:07:52
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

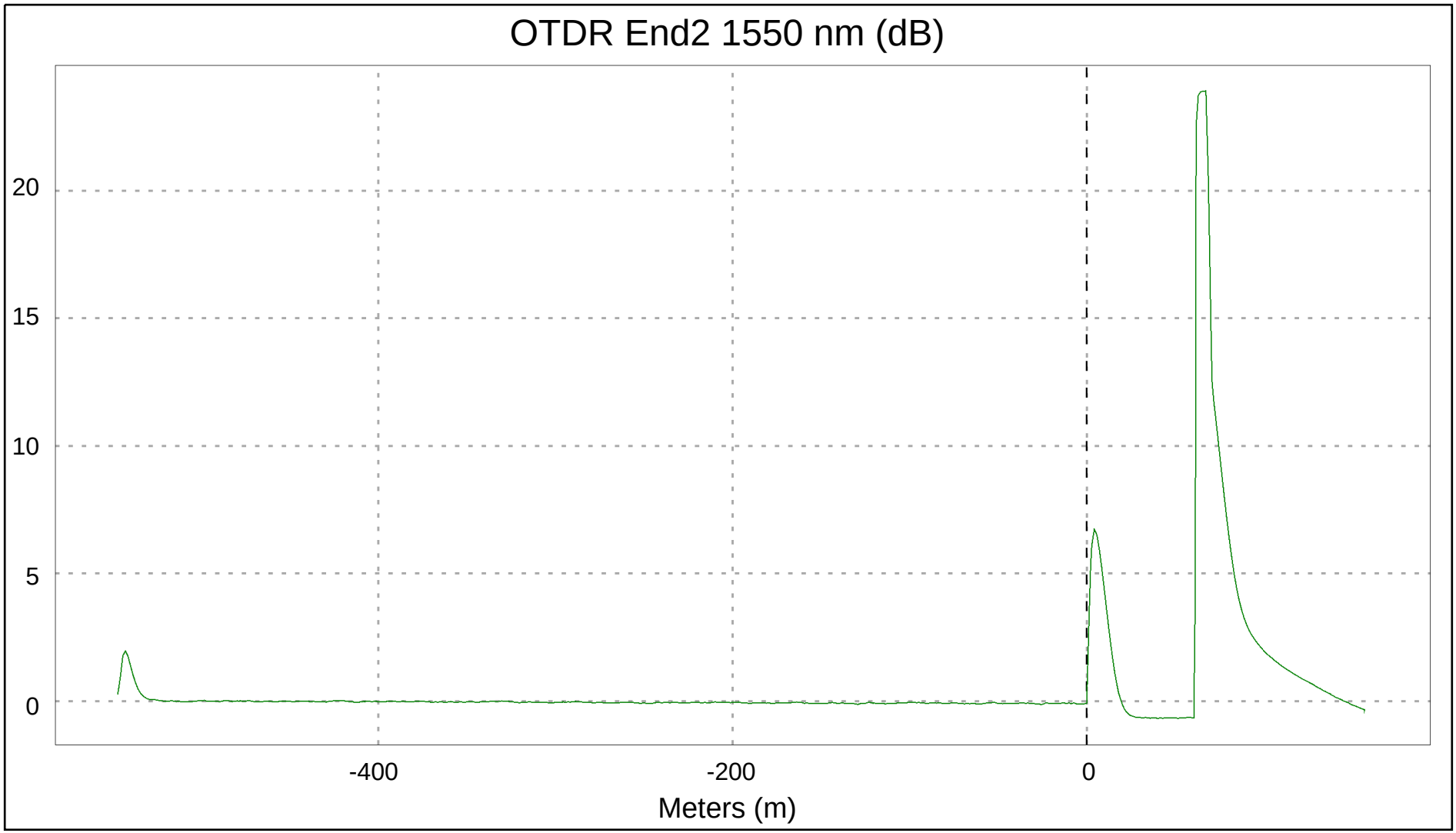
Cable ID: 011

Test Summary: PASS

Date / Time: 31-01-2025 13:07:52
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

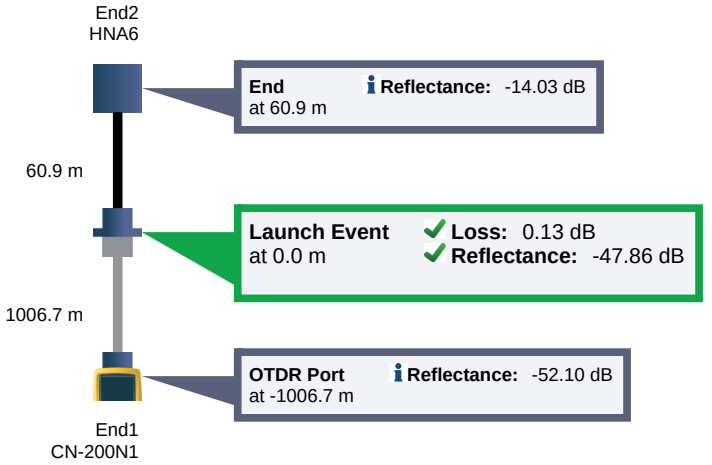
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 13:08:29
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 EventMap

Fiber Length: 60.9 m
Overall Loss: 0.16 dB

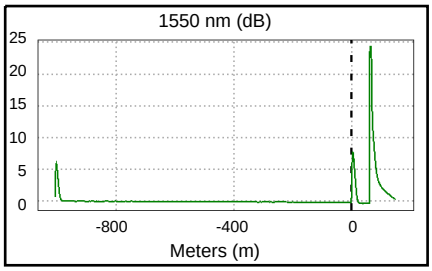


OTDR End1 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 11:46:17
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 1006.7 m
Compensation Date: 31-01-2025 11:36

Auto OTDR	1550 nm
Range (Auto)	1158 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.9	
Overall Loss (dB)		0.16	
ORL (dB)		47.07	
Events			
60.9 m End			
Reflectance (dB)		-14.03	
Attn Coeff (dB/km)		0.40	

LinkWare™ PC Version 11.4

Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 13:08:29
Cable Type: OS2 Singlemode
n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)
End1 Name: CN-200N1
End2 Name: HNA6

OTDR End1 PASS

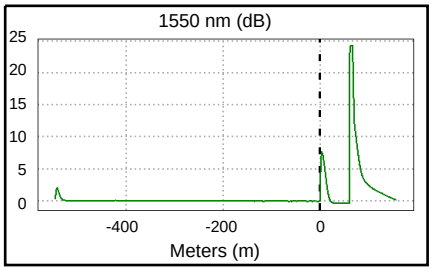
Measurements	Status	1550 nm Value	Limit
Events			
0.0 m Launch Event	PASS		
Loss (dB)		0.13	0.75
Reflectance (dB)		-47.86	-35.00
Attn Coeff (dB/km)		0.20	
-1006.7 m OTDR Port			
Reflectance (dB)		-52.10	

OTDR End2 PASS

Test Limit: General Fiber RL = 35 dB
Limits Version: 7.7
Date / Time: 31-01-2025 13:08:29
Versiv
S/N: 20133262
Software Version: V6.8 Build 6
Module: OptiFiber Pro (OFP-HDR+1625)
S/N: 20370463
Calibration Start Date: 23-01-2021

Launch Only
Launch Type: Singlemode
Launch Length : 547.08 m
Compensation Date: 31-01-2025 12:58

Auto OTDR	1550 nm
Range (Auto)	704 m
Resolution (Auto)	0.03 m
Pulse Width (Auto)	30 ns
Averaging Time (Auto)	5 s
Loss Threshold (Auto)	0.10 dB
End Threshold (Auto)	0.00 dB



Measurements	Status	1550 nm Value	Limit
Overall Length (m)		60.91	
Overall Loss (dB)		0.34	
ORL (dB)		47.66	
Events			
60.91 m End			
Reflectance (dB)		-13.92	
Attn Coeff (dB/km)		1.74	
0.00 m Launch Event	PASS		
Loss (dB)		0.23	0.75
Reflectance (dB)		-48.42	-35.00
Attn Coeff (dB/km)		0.19	
-547.08 m OTDR Port			
Reflectance (dB)		-61.84	

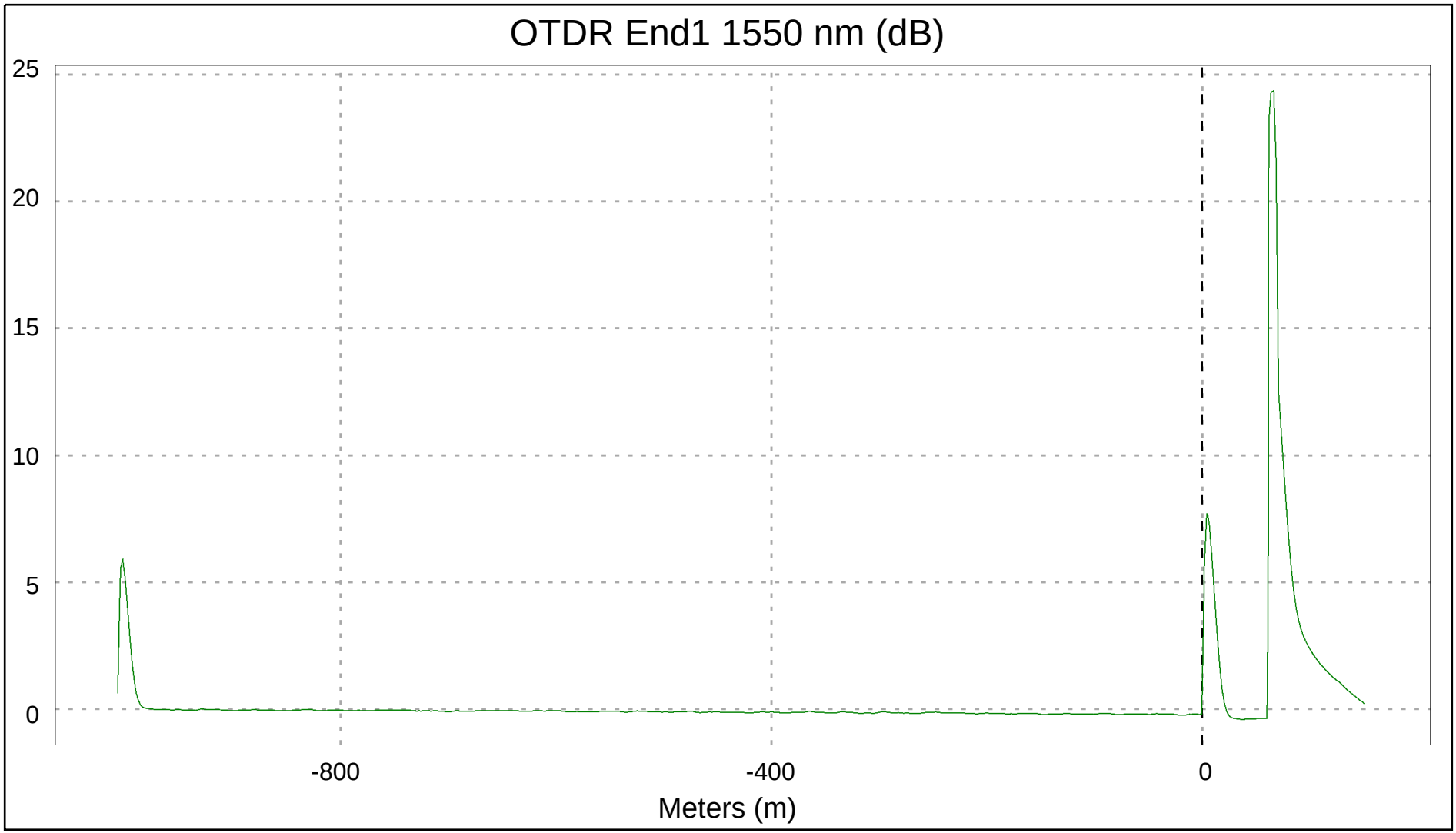
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 13:08:29
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



LinkWare™ PC Version 11.4

Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

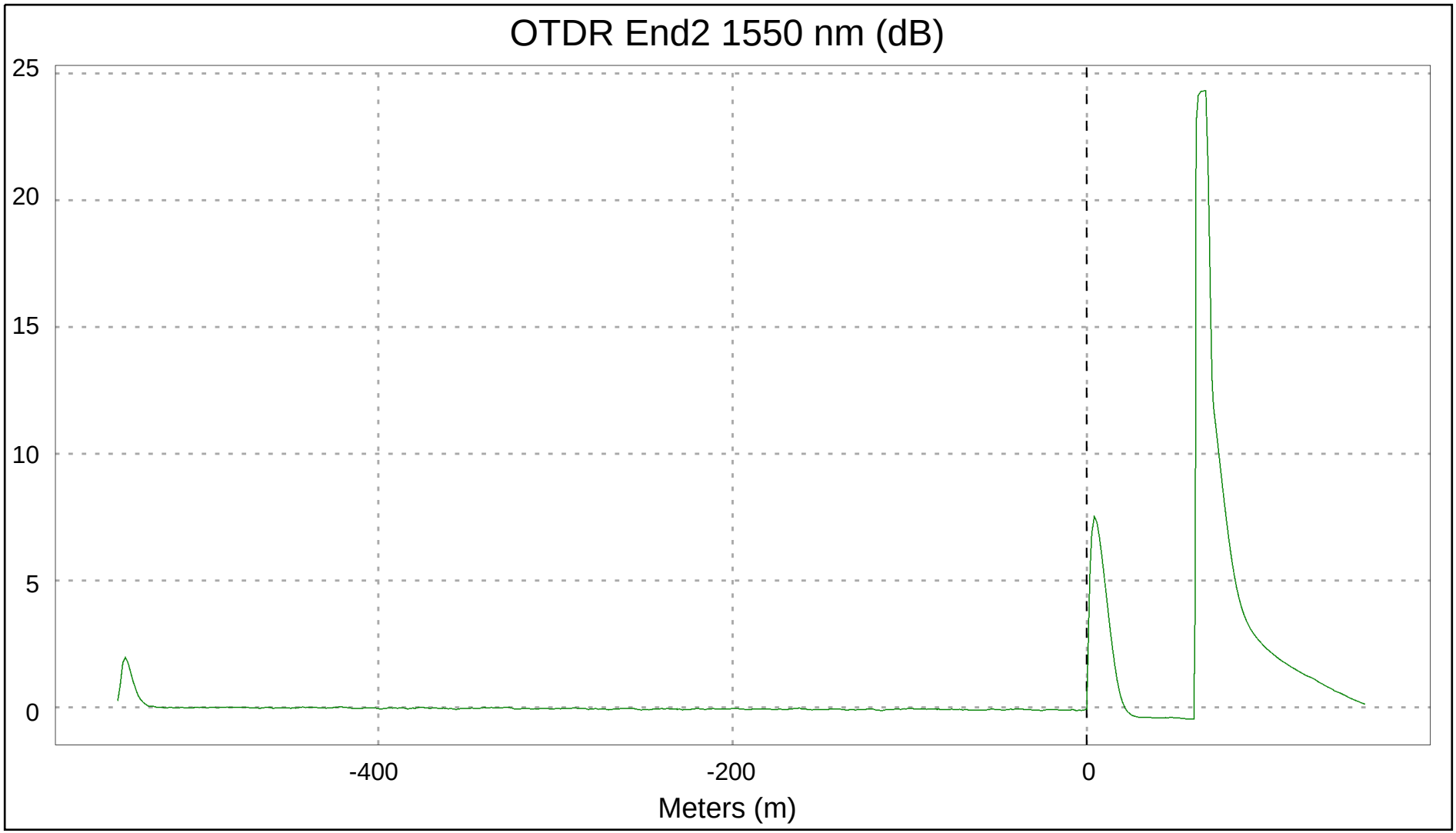
Cable ID: 012

Test Summary: PASS

Date / Time: 31-01-2025 13:08:29
Cable Type: OS2 Singlemode

n = 1.468000
Backscatter Coefficient: -82.0dB (1550 nm)

End1 Name: CN-200N1
End2 Name: HNA6



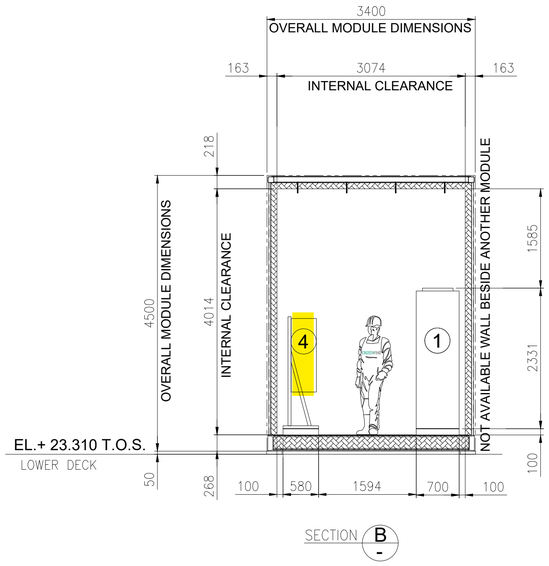
LinkWare™ PC Version 11.4

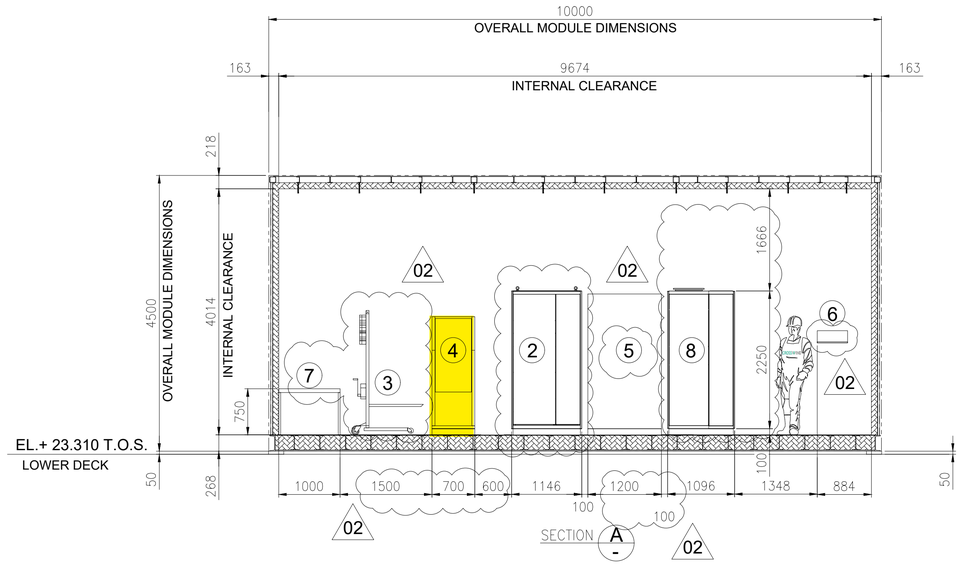
Project: CROSSWIND HNA6/CN-200N1
Site: Not Set
Floor: Not Set
Rack: Not Set
CROSSWIND ROSETTI.flw

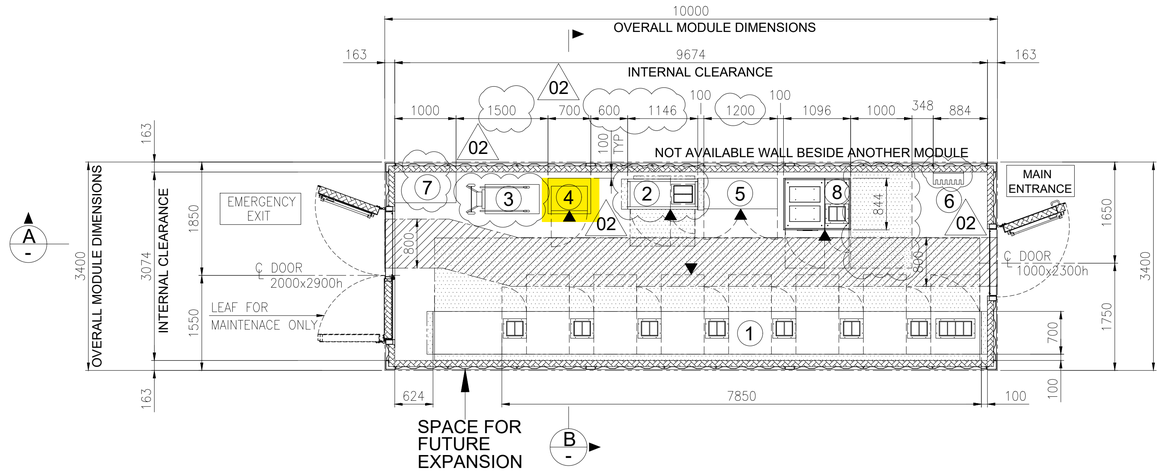
Building: Not Set
Room: Not Set
Patch: Not Set

FLUKE networks

DRAWING NO. 123A90-DDL-EL-DL-20105 REV. 02





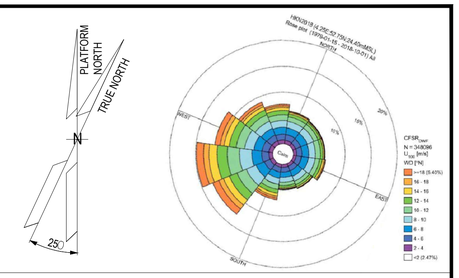


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

1

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	SG-200N1	400V SWITCHGEAR	7850	700	2331	
2	DP-200N1	DISTRIBUTION BOARD FOR LIGHTING AND SMALL POWER B.O.P.	1146	520	2250	
3	-	SERVICE TROLLEY FOR 400V SWITCHGEAR	1034	490	2030	
4	CN-200N1	ICCP PANEL	700	580	1830	
5	B200-HSB-001	DISTRIBUTION & HVAC PANEL - LV ROOM	1200	600	1900	02
6	-	TOOL BOX	495	200	200	
7	-	TABLE	1000	500	750	
8	SG-200D2	ACB PANEL FOR SOLAR PACKAGE	1096	844	2294	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DELETED.
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
4. FOR OTHER ITEMS, CORRECT LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND DEDICATED PROJECT DOCUMENTATION.
5. HEIGHT OF ALL PANELS IN THE EQUIPMENT LIST TABLE IS WITHOUT THE BASE FRAME (100mm)

02

LEGEND

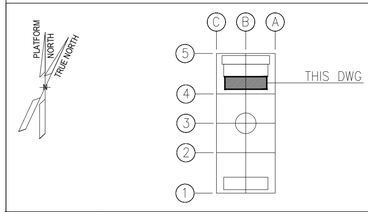
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

REFERENCES

DOCUMENT TITLE	DOCUMENT NUMBER
SG-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00007
SG-200D2 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00008
DP-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00009
AC UPS – GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS	1724000372-EL-DA-00004
AC UPS – BATTERY LAYOUT INTERCONNECTING DIAGRAM	1724000372-EL-DG-00011
B-200 -GENERAL ARRANGEMENT DRAWINGS - E&I SHELTER	1724000049-AR-DA-00015
ICCC PANEL GENERAL ARRANGEMENT DRAWING	144671-CORR-TF-FAB-DWG-0003

02

KEY PLAN



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20105**

REV.:	DATE:	SIGNATURE:
2_A	08/08/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/05/2024	FMO	LMA/AMA	LMA/MDO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	08/11/2023	DSF	CB/AMA	DYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

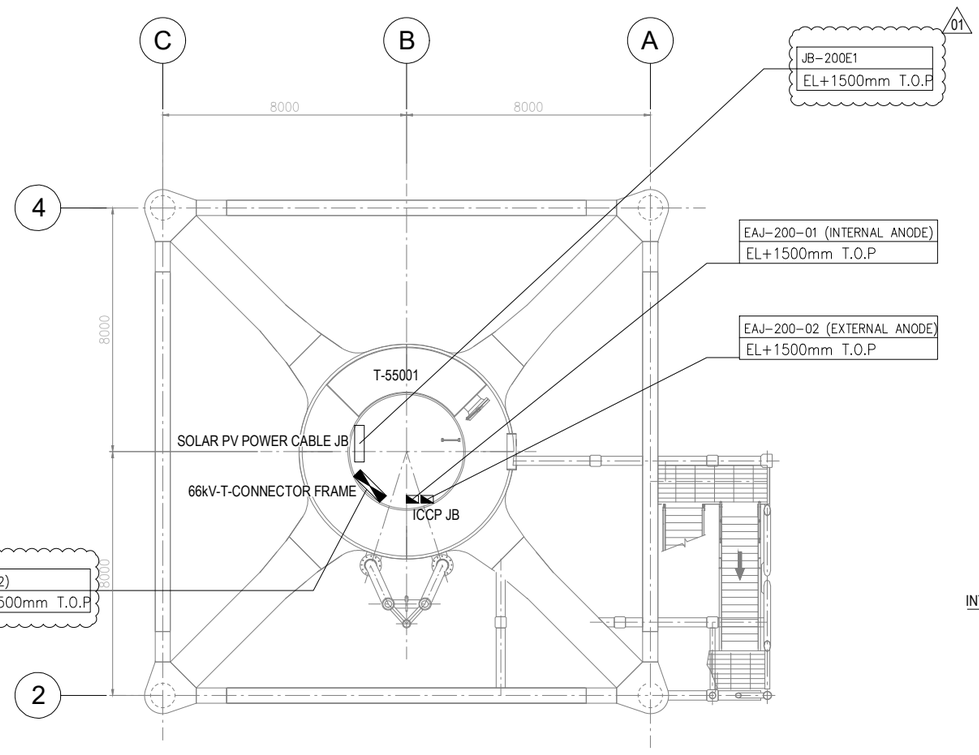
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:50
DRAWN FMO	CHECKED LMA/AMA	APPROVED LMA/MDO	DATE 27/05/2024
A1	DRAWING NO. 123A90-DDL-EL-DL-20105	SHEET 001	REV. 02

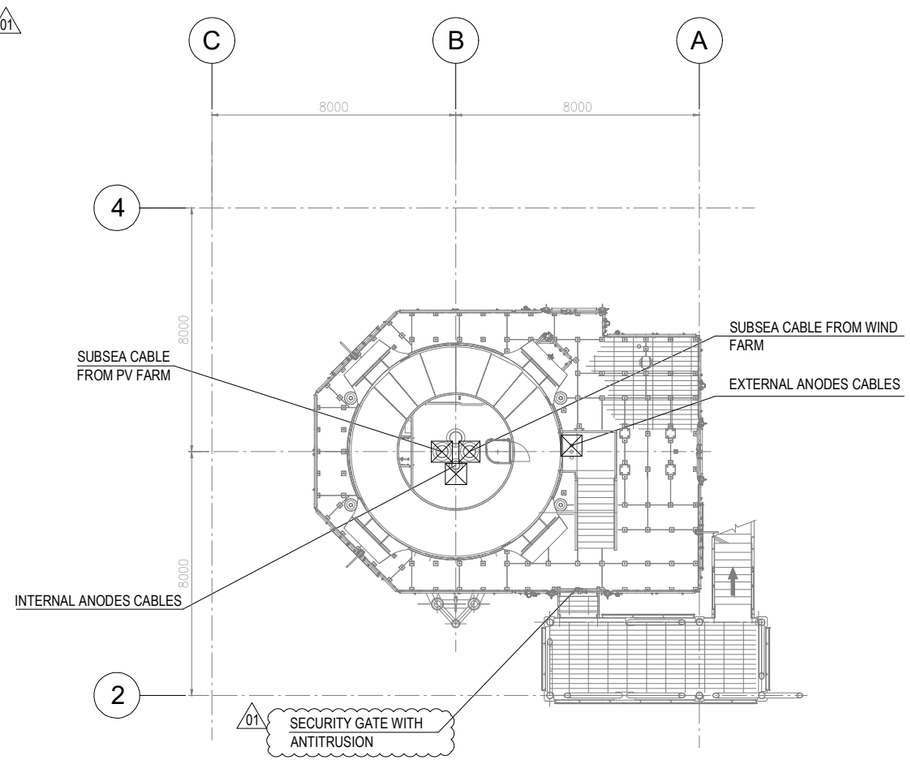
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DRAWING NO. 123A90-DDL-EL-DL-20102

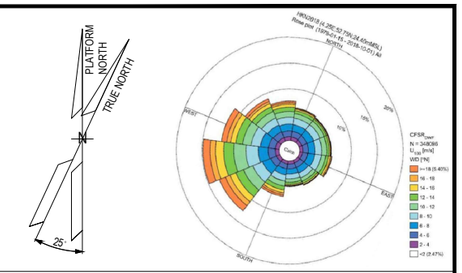
REV. 01



PLAN ON TRANSITION PIECE
EL+21.710 T.O.S.



PLAN ON EXISTING PLATFORM AT
EL+16.860 T.O.S.



NOTES

1. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS IN METERS. UNLESS NOTED OTHERWISE.
3. ELEVATIONS REFER TO T.O.S. UNLESS NOTED OTHERWISE.
4. ELEVATIONS REFER TO THE HORIZONTAL AXIS OF THE OBJECT. 01

LEGEND

JB-200E1 / EL+1500mm T.O.P	TAG ITEM / REFERED ELEVATION TO T.O.P. (TOP OF PLATFORM)
	SOLAR PV POWER CABLE JB
	66kV T-CONNECTOR FRAME
	ICCP JUNCTION BOX
01	EXISTING CABLE ENTRY

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70071	PLOT PLAN - BELOW LOWER DECK
123A90-DDL-EL-DL-20140	ELECTRICAL HEAT TRACING JUNCTION BOX LAYOUT
123A90-DDL-EL-DL-20120	LIGHTING & SOCKET LAYOUT - BELOW LOWER DECK
123A90-DDL-EL-DS-20048	TDS - IAC CABLE INTERFACE JB + SOLAR PV JB
123A90-DDL-EL-DS-20054	T-CONNECTORS & HV TERMINATIONS
DRW-15547-001-SAE-001	ICCP DRAWINGS & SPECIFICATIONS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	23/07/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	24/05/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20102
REV.: 1_A | DATE: 08/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN SPS	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 23/07/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20102	SHEET 001	REV. 01

File Name : 123A90-DDL-EL-DL-20102-Electrical Equipment Layout - Stair Towers

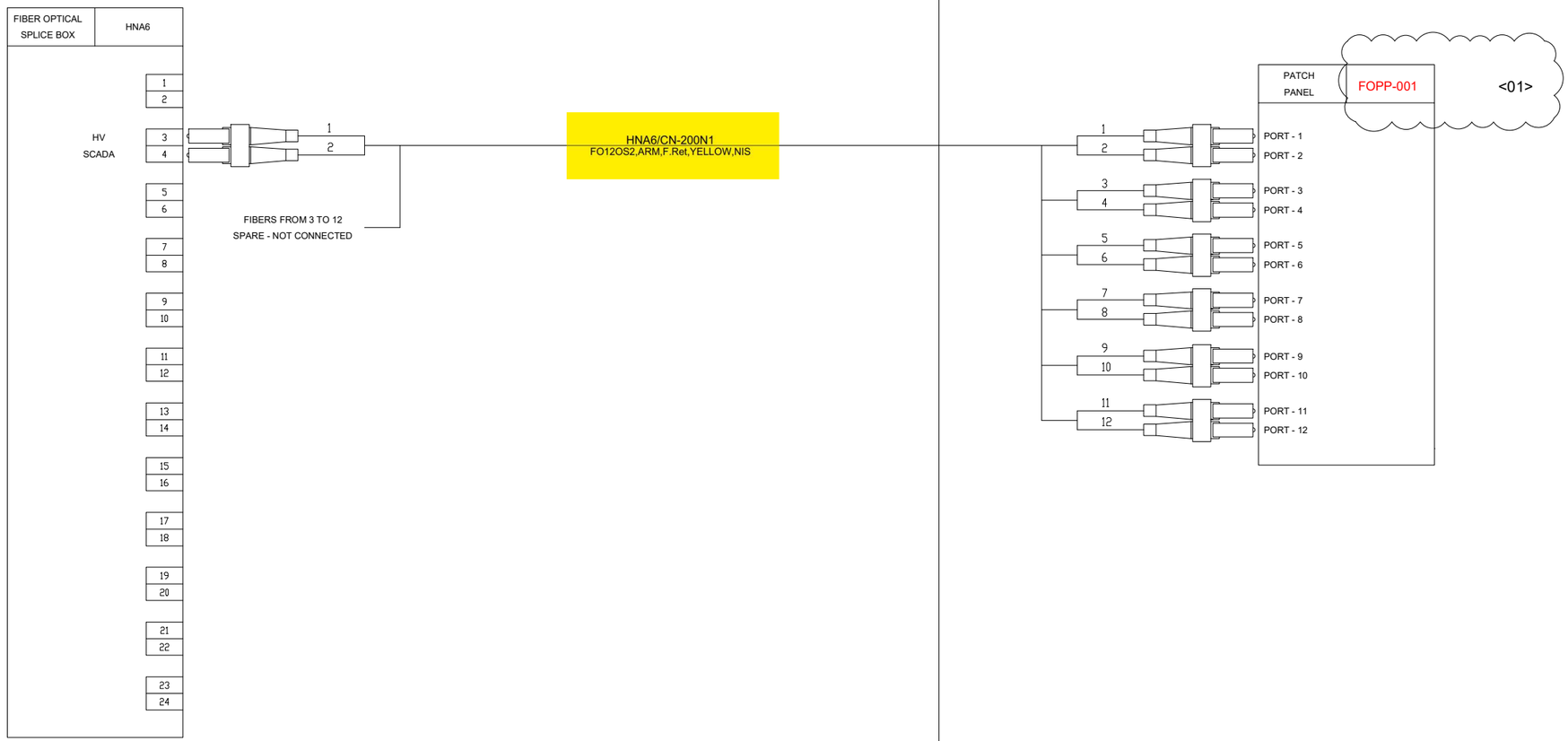
DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

FIELD - TRANSITION PIECE

LV SWITCHROOM (B-200)

ICCP PANEL - CN-200N1



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_I	29/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :

BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
COMMUNICATION – F.O.

CONTRACT NO./TITLE			SCALE 1:1
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	040	01

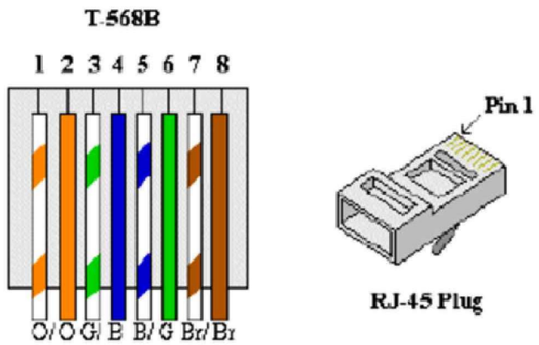
File Name : 123A90-DDL-IN-DG-40015_Rev.01

DRAWING NO. 123A90-DDL-IN-DG-40015

REV. 01

NOTES:

1. ALL SPARE ENTRIES SHALL BE PROVIDED WITH CERTIFIED EX PROOF PLUGS.
2. CABLE SCREENS / DRAIN WIRE SHALL BE SECURELY INSULATED AND TIED BACK IN THE INSTRUMENT SIDE AND SHAL BE TERMINATED IN THE MARSHALLING SIDE OF THE PANEL.
3. SPARE PAIRS / TRIADS SHALL BE CONNECTED TO TERMINALS IN JUNCTION BOX AND PANEL / MARSHALLING CABINETS.
4. ALL CABLE SCREENS TO BE TERMINATED AT THE INSTRUMENT EARTH BAR IN THE RESPECTIVE EARTH BARS (IS OR NIS) AS APPLICABLE IN THE MARSHALLING CABINET.
5. SWITCH TAG NAME AND PORT WILL BE DEFINED DURING THE CONSTRUCTION PHASE
6. FOR OPTICAL FIBERS, USE THE FOLLOWING COLOR CODING:
   - 01- RED
   - 02- GREEN
   - 03- BLUE
   - 04- YELLOW
   - 05- GREY
   - 06- PURPLE
   - 07- BROWN
   - 08- ORANGE
   - 09- WHITE
   - 10- PINK
   - 11- BLACK
   - 12- TURQUOISE
7. CAT.6A CABLE SHALL BE TERMINATED MEETING REQUIREMENTS OF STANDARD EIA/TIA 568B:



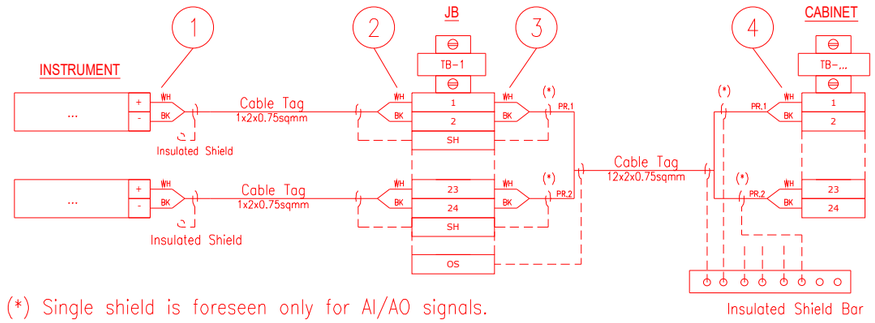
8. FOR INTRISICALLY SAFE CIRCUIT USE LIGHT BLUE CABLE OR ALTERNATIVELY ORANGE CABLE WITH HEAT SHRINKABLE SLEEVE BLUE AT BOTH END (SEE DOC. 123A90-FDL-IN-DD-40017).

LEGENDS & SYMBOLS:

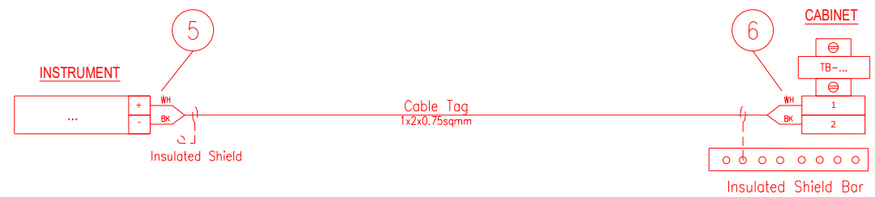
I.E.	- GREEN ⟶ INSTRUMENT SIGNAL EARTH
P.E.	- GREEN / YELLOW ⟶ P.E. EARTH / BONDING
	- TERMINAL BLOCK (TB)
WH	- WHITE
BK	- BLACK
RD	- RED
S	- SHIELD TERMINAL
OS	- OVERALL SHIELD TERMINAL
O/A Shld	- OVERALL SHIELD
I&O/A Shld	- INDIVIDUAL & OVERALL SHIELD
NIS	- NON INTRINSICALLY SAFE
IS	- INTRINSICALLY SAFE
P.E.	- PLANT EARTH
PCS	- PROCESS CONTROL SYSTEM
ESD	- EMERGENCY SHUTDOWN SYSTEM
SIS	- SAFETY INSTRUMENT SYSTEM
FGS	- FIRE & GAS SYSTEM
MC	- MARSHALLING CABINET
AI	- ANALOGUE INPUT
AO	- ANALOGUE OUTPUT
DI	- DIGITAL INPUT
DO	- DIGITAL OUTPUT
JE	- JUNCTION BOX FOR ELECTRICAL SIGNALS

PHILOSOPHY OF CROSS-FERRULING:

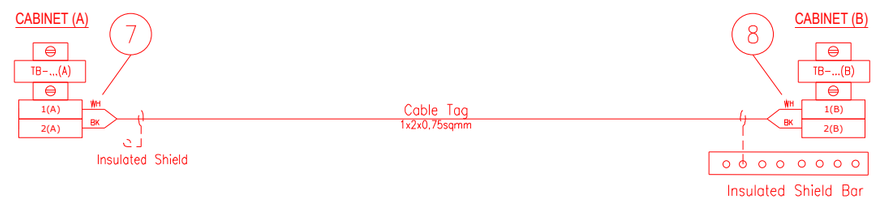
INSTRUMENT CONNECTION THROUGH MARSHALLING JB TO CABINET



INSTRUMENT CONNECTION STRAIGHT TO CABINET



CABINET CONNECTION TO CABINET



1 - INSTR. TERMINAL NO. OR POLARITY / JB TAG / JB TERMINAL NO.
2 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / JB TERMINAL NO.
3 - JB TERMINAL NO. / JB TERMINAL STRIP / CABINET TERMINAL STRIP / PAIR OR CORE NO.
4 - PAIR OR CORE NO. / JB TAG / JB TERMINAL NO. / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
5 - INSTR. TERMINAL NO. OR POLARITY / CABINET TAG / CABINET TERMINAL STRIP / CABINET TERMINAL NO.
6 - INSTR. TERMINAL NO. OR POLARITY / INSTR. TAG / CABINET TERMINAL STRIP/ CABINET TERMINAL NO.
7 - TERMINAL NO. (A) / TERMINAL STRIP (A) / CABINET TAG (B) / CABINET TERMINAL NO. (B) / PAIR OR CORE NO.
8 - PAIR OR CORE NO. / CABINET TERMINAL NO. (A) / CABINET TAG (A) / TERMINAL STRIP (B) / TERMINAL NO. (B)

NOTES: A - HEAT SHRINKABLE BLACK FOR SHIELD OF NIS INSTRUMENT CABLE.
HEAT SHRINKABLE BLUE FOR SHIELD OF IS INSTRUMENT CABLE.
B - ABOVE DESCRIBED PHILOSOPHY IS INTENDED FOR CONNECTION AS REPRESENTED:
IN CASE OF CONNECTION FROM THE OPPOSITE SIDE, ORDER OF FERULE TAG SHALL BE MIRRORED.
C - SAME TAGGING PHILOSOPHY SHALL APPLIED ALSO TO SHIELDS TERMINATED ON TERMINAL STRIP.

REFERENCE DRAWINGS:

PIPING AND INSTRUMENT DIAGRAM 123A90-DDL-PR-PID-80009
INSTRUMENT INDEX 123A90-DDL-IN-LIS-40088
F&G DETECTORS LAYOUT 123A90-DDL-SAF-DL-30027

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-IN-DG-40015**

REV.:	DATE:	SIGNATURE:
1_I	29/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
INSTRUMENT – PCS WIRING DIAGRAMS
GENERAL NOTES/LEGENDS

CONTRACT NO./TITLE			SCALE N/A
DRAWN VBA	CHECKED LCA	APPROVED DLO	DATE 23/02/2024

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-IN-DG-40015	003	01

File Name : 123A90-DDL-IN-DG-40015_Rev.01

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	To Tag	To Main Function	To Area	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
HNA6/CN-200N1	Cable	IN	VFC	123A90-DDL-IN-LIS-40091						HNA6	Fiber Optical Splice Box	Transition Piece	CN-200N1	Impressed Current Cathodic Protection (ICCP) System	Lower Deck (B-200)	TELCV02-12FO	Fibre Optic Cable 12X9/125 OS2 - Yellow	M20S	T2_M20S_Double							I-MCT-T01 / L-SEC-8 / L-SEC-1E / L-SEC-1D / L-SEC-5 / B-200-SEC-1A / B-200-SEC-1B / I-MCT-201

1	GENERAL	Cable Code	FO12 OS2
2		Drum Details.	TELCV02-12FO
3		Number of Drums	1
4		Ambient temperature min	Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C
5		Vendor Cable Code	(*)
6		Service	Communication cables - Fiber Optic type
7		Cable Description	FO-LSZH-SWB-LSZH
8		Cable Installation	Above Ground
9		Cable Type / Conductor size	12 Cores, Single Mode OS2 - 9/125 µm
10		Cable Length [mt]	200
11		Cable Diameter (min / nor / max) - OVER ALL	8.5mm
12		Cable diameter(under armour)	
13		Fire Performance	Flame Retardant as per IEC 60332
14		Hazardous Area Classification	Zone-2, Gr IIC (II-B + H2), T1
15	FIBER	Mode	Single Mode OS2 9/125 µm
16		Total No. of Cores	12
17		Size (Corer / Cladding / Buffer)	9/125 µm
18		Fiber Optic Cores Identification	According to TIA-598
19		Index Profile	Gradual
20		Number of Fiber Strands per tube	4
21		Standards	IEC 60793-1&2, IEC60794, IEC 61034-2, IEC 61280-4-1-9, TIA-526-14-B (by ITU-T G.651.1)
22		Attenuation	
23	LOOSE TUBE & FILLER	Material	
24		Colour	According to IEC 60304
25		Loose Tube Diameter	
26		Loose Tube Gel	Thixotropic Filling Gel (*)
27		Number of Loose Tube Gel	1
28		Number of Dummy Fillers	0
29		Filler Color	
30	SZ CORE	Sequence on elements in core	
31		Water Blocking Compound	Thixotropic Filling Gel (*)
32		Peripheral Strength Member	Glass Yarn over the SZ Core (*)
33		Core Wrapping	VTA
34	CONSTRUCTION	Inner Sheath Material / Colour	Note 8
35		Inner Sheath Rip Cord	One rip cord inner sheath (*)
36		Inner Sheath Thickness	VTA
37		Outer Sheath Material / Colour	Note 7 / YELLOW
38		Outer Sheath Rip Cord	One rip cord under the outer sheath (*)
39		Outer Sheath Thickness	1.5mm
40		Bending Radius	20xO.D During Installation, Permanent 10xO.D.
41		Minimum Laying Temperature	-40 °C
42		Strength Member Type / Diameter	FRP ROD / 2.8mm
		Armour	Steel Wire braiding (SWB)
43		Weight	100 Kg/Km
44	TESTS AND CERTIFICATES	Certificate of Conformity	Required
45		Material certification	Required
46		Test Report / Certification	Required
48			
49			
50	MISC	Manufacturer	FLEI
51		MR number	123A90-DDL-IN-MR-40065
52		PO number	1724001170
53			
54			

#	NOTE:

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Section 9 MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE

NOT APPLICABLE

Section 10 MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE

NOT APPLICABLE

Section 11 MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE

NOT APPLICABLE

Section 12 FAT / VENDOR REPORTS

NOT APPLICABLE

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE