Certificate No: TEC/MRA/CAB/IND-D/83 dated 30/08/2022 issued to M/s Sterlite Technologies Ltd.

(OFC Quality Assurance Laboratory)

ISO 9001:2015

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230, U. T. of Dadra and Nagar Haveli

Validity: - 30/08/2022 to 29/08/2025

Terms & Conditions

This certificate is issued as per the terms and conditions stipulated in the TEC SCHEME FOR DESIGNATING DOMESTIC CONFORMITY ASSESEMENT BODIES AND CERTIFICATION BODIES FOR CONFORMITY ASSESSMENT AND CERTIFICATION OF TELECOMMUNICATION EQUIPMENT ISSUE 2 NO. TEC/DES-01/02.DEC.2017.

Some of the conditions are reiterated as under:

A. Obligations of the Designated CAB.

- It shall ensure that it maintains its accreditation status from any recognised Indian accreditation body like NABL during validity period of certificate.
- It shall follow the stipulated procedures, rules and policies laid down by Designating Authority (DA) or Mutual Recognition Agreement (MRA)* partner for testing and evaluation.
- In respect of tests for which it is seeking designation, it shall have no interest whatsoever in any business to carry on testing in an unfair or biased manner.
- It shall fully indemnify DA from and against all liabilities, damages, claims, costs, and expenses incurred or sustained by DA as a result of any action taken or omitted by DA relating to the process of designation.
- It shall comply with DA's or MRA partner's terms and conditions for designation and recognition as modified from time to time.
- It shall be under obligation to participate in the online process prescribed by TEC for test and certification against TEC's GR/IR/ER and standards.
- 7. It shall have a record system which shall have a retention period of at least 5 years for documents related to the equipment testing. It shall maintain all the relevant documents including list of products submitted for testing, product-wise testing and evaluation reports. These documents shall be produced before the DA within seven days, as and when required.
- It shall ensure the Intellectual Property Rights of the customers in the course of testing by maintaining professional ethics, secrecy and keeping all the product related information confidential.

*Applicable only if recognized by MRA (Mutual Recognition Agreement) partner.

Swmy

Page 1 of 2

- It shall notify the DA in writing of occurrence of any of the following incident(s) within 2 weeks of its occurrence
 - a) Cessation of its business of conformity assessment for which it is Designated or accredited
 - b) Changes in its legal, commercial, or Organisational status
 - c) Changes, which may affect continuing compliance with any of the criteria or requirement specified by DA or MRA partner.
 - d) Change of premises

B. REFERENCE TO DESIGNATION STATUS

- Designated CABs may advertise their designation status with regard to standards or parts thereof which are included in the scope of designation.
- The advertisement should not imply, or otherwise suggest that DA or MRA Partner has endorsed the product or imply that the designated CAB is an agent or representative of DA or MRA Partner.
- CABs whose designations have been suspended or withdrawn for any reason, shall discontinue advertisement of their designated status and not make any misleading statements regarding their designation status.

C. POST-DESIGNATION SURVEILLANCE

As and when required, DA shall conduct surveillance assessments and other non-routine assessments on the Designated CABs to ensure that standards of practices are maintained as well as to investigate complaints made against them.

D. SUSPENSION OR WITHDRAWAL OF DESIGNATION

- DA shall suspend or withdraw the designation of a CAB if
 - Its accreditation is withdrawn.
 - It is found that the CAB is not complying with the stipulated criteria or requirements.
 - c. It is guilty of any offence involving fraud or dishonesty.
 - d. DA concludes that there is a just cause for withdrawing the designation.
- A CAB whose designation, and recognition in case of MRA, has been suspended or withdrawn shall be removed from the list of designated CABs, in case it fails to take corrective measures.
- DA shall keep the designation of a Designated CAB under suspension, until the completion of formal review process.

E. AMENDMENT TO THE SCHEME

DA reserves the rights to amend the scheme, as and when required, for the purpose of streamlining designation process.

8Whys

Page 2 of 2



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 1 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on: _

Standard/ Specification

	Product		4	
1	Optical Fibre (Single Mode)	Mode Field Diameter	for 1310 nm for Optical Fibre (ITU-T G.652.D) IEC 60793-1-45	TEC ER No. TEC70012206
			for 1550 nm for Optical Fibre (ITU-T G.655) IEC 60793-1-45	TEC ER No. TEC70012206
			for 1550 nm for Optical Fibre (ITU-T G.656) IEC 60793-1-45	TEC ER No. TEC70012206
			for 1310 nm for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-45	TEC ER No. TEC70012206
			for 1310 nm for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-45	TEC ER No. TEC70012206
			for 1310 nm for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-45	TEC ER No. TEC70012206
				V V

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 2 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Optical Fibre (Single Mode)	Cladding Diameter	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.655) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.656) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-20	TEC ER No. TEC70012206
	Cladding Non- Circularity	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.655) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.656) IEC 60793-1-20	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 3 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

No. Equipment/ Product			Specification
Optical Fibre (Single Mode)	Cladding Non- Circularity	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-20	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-20	TEC ER No. TEC70012206
	Core Clad Concentricity	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70012206
	error	for Optical Fibre (ITU-T G.655) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.656) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-20, IEC 60793-2-50	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 4 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

No. Equipment/ Product			Specification
Optical Fibre (Single Mode)	Coating/ Cladding	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
	Concentricity	for Optical Fibre (ITU-T G.655) IEC 60793-1-21, IEC 60793-2-50 for Optical Fibre (ITU-T G.656) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
			TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.A1) (i) 200 μm fibre (ii) 250 μm fibre IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.A2) (i) 200 μm fibre (ii) 250 μm fibre IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
	Coating Diameter	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.655) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 5 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

1	Optical Fibre (Single Mode)	Coating Diameter	for Optical Fibre (ITU-T G.656) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.A1) (i) 200 μm fibre (ii) 250 μm fibre IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.A2) (i) 200 μm fibre (ii) 250 μm fibre IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70012206
		Attenuation of Uncabled Fibre	for Optical Fibre (ITU-T G.652.D) (i) at 1310 nm (ii) at 1550 nm (iii) at 1490 nm (iv) at 1270 nm (v) at 1625 nm (vi) water peak attenuation at 1380 to 1390 nm	TEC ER No. TEC70012206

Director (CA), TEC

AB (CA), TEC

*The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.

IEC 60793-1-40



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa-396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 6 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Optical Fibre (Single Mode)	Attenuation of Uncabled Fibre	for Optical Fibre (ITU-T G.655) (i) at 1550 nm (ii) at 1625 nm	TEC ER No. TEC70012206
		IEC 60793-1-40 for Optical Fibre (ITU-T G.656) (i) at 1460 nm (ii) at 1550 nm (iii) at 1625 nm (iv) at 1383 nm IEC 60793-1-40	TEC ER No. TEC70012200
*		for Optical Fibre (ITU-T G.657.A1) (i) at 1310 nm (ii) at 1550 nm (iii) at 1490 nm (iv) at 1270 nm (v) at 1625 nm (vi) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC ER No. TEC7001220

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 7 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Optical Fibre (Single Mode)	Attenuation of Uncabled Fibre	for Optical Fibre (ITU-T G.657.A2) (i) at 1310 nm (ii) at 1550 nm (iii) at 1490 nm (iv) at 1270 nm (v) at 1625 nm (vi) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC ER No. TEC70012206
		for Optical Fibre (ITU-T G.657.B3) (i) at 1310 nm (ii) at 1550 nm (iii) at 1490 nm (iv) at 1270 nm (v) at 1625 nm (vi) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 8 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on: ____

Sl. Telecom No. Equipment/ Product	Test Paramete	er or Type of Testing	Standard/ Specification
Optical Fibre	Chromatic	for Optical Fibre (ITU-T G.652.D) (i) at 1550 nm (ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270, 1340 nm band	TEC ER No.
(Single Mode)	Dispersion		TEC70012206

(Single Mode)	(ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270-1340 nm band IEC 60793-1-42, IEC 60793-2-50	
	for Optical Fibre (ITU-T G.657,A1) (i) at 1550 nm (ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270-1340 nm band IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70012206
*	for Optical Fibre (ITU-T G.657.A2) (i) at 1550 nm (ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270-1340 nm band IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Test Parameter or Type of Testing

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 9 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ___

Standard/

No.	Equipment/ Product			Specification
	Optical Fibre (Single Mode)	Chromatic Dispersion	for Optical Fibre (ITU-T G.657.B3) (i) at 1550 nm (ii) at 1625 nm (iii) in 1285-1330 nm band (iv) in 1270-1340 nm band IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70012206
		Zero Dispersion	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-42	TEC ER No. TEC70012206
		Slope	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42	TEC ER No. TEC70012206
		Zero Dispersion	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-42	TEC ER No. TEC70012206
		Wavelength range	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70012206

Director (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 10 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom

Last Amended on:

Standard/

No.	Equipment/ Product	Test Turumeter	or Type or Testing	Specification
	Optical Fibre (Single Mode)	Zero Dispersion	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-42	TEC ER No. TEC70012206
		Wavelength range	for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-42	TEC ER No. TEC70012206
		Polarization Mode	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70012206
		Dispersion for Uncabled Fiber	for Optical Fibre (ITU-T G.655) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre(ITU-T G.656) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-48, IEC 60793-2-50	TEC ER No. TEC70012206
		Cable Cut off Wavelength	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

SI.

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 11 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Optical Fibre (Single Mode)	Cable Cut off Wavelength	for Optical Fibre (ITU-T G.655) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.656) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70012206
		3	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-44, IEC 60793-2-50	TEC ER No. TEC70012206
		Fibre Cutoff Wavelength for Fibre used in	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-44	TEC ER No. TEC70012206
		Patch cords & Pig-tails	for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-44	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-44	TEC ER No. TEC70012200

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 12 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on: _

Standard/

No.	Equipment/ Product	-		Specification
	Optical Fibre (Single Mode)	Fibre Macro bend loss (Change in	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
		Attenuation When fibre is coiled with 100	for Optical Fibre (ITU-T G.655) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
		turns on 60 ±1.0 mm diameter mandrel)	for Optical Fibre(ITU-T G.656) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
		Fibre Macro bend loss (Change in	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
		Attenuation When fibre is coiled with 1	for Optical Fibre (ITU-T G.655) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
		turn around 32 ± 0.5 mm diameter mandrel)	for Optical Fibre(ITU-T G.656) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206

Director (CA), TEC

AB (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 13 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

SI.

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Optical Fibre (Single Mode)	Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 50 ± 0.5 mm diameter mandrel)	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
		Fibre Macro bend loss (Change in Attenuation	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
		When fibre is coiled with 10 turns on 15 mm radius mandrel)	for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 14 of 152

Validity: 30/08/2022 to 29/08/2025

SI Telecom

Last Amended on:

Standard/

No.	Equipment/ Product	Test Parameter	Test Parameter or Type of Testing	
	Optical Fibre Fibre Macro bend loss (Change in	for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206	
		Attenuation When fibre is coiled with 1 turn on 10 mm	for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
	radius mandrel)	for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206	
		Fibre Macro bend loss (Change in Attenuation	for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
		When fibre is coiled with 1 turn on 7.5 mm radius mandrel)	for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

No. Equipment/

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 15 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Product			
Optical Fibre (Single Mode)	Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn on 5 mm radius mandrel	for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-47, IEC 60793-2-50	TEC ER No. TEC70012206
	Peak Stripability Force to	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70012206
	Remove Primary Coating of the	for Optical Fibre (ITU-T G.655) IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70012206
	fiber (Unaged, Water aged, Damp Heat	for Optical Fibre (ITU-T G.656) IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70012206
	aged)	for Optical Fibre (ITU-T G.657.A1) (i) 200 μm fibre (ii) 250 μm fibre IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70012206
		25, 132, 132, 132, 132, 133	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 16 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

Sl. Telecom No. Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
--	-----------------------------------	----------------------------

	Optical Fibre (Single Mode)	Peak Stripability Force to Remove Primary Coating of the	for Optical Fibre (ITU-T G.657.A2) (i) 200 μm fibre (ii) 250 μm fibre IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70012206
		fiber (Unaged, Water aged, Damp Heat aged)	for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-32, IEC 60793-2-50	TEC ER No. TEC70012206
		Fibre Curl	for Optical Fibre (ITU-T G.652.D) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.655) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.656) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.A1) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.A2) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70012206
			for Optical Fibre (ITU-T G.657.B3) IEC 60793-1-34, IEC 60793-2-50	TEC ER No. TEC70012206

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 17 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

	Product			
2.	Raw material for Manufacturing of Optical	Mode Field Diameter	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
	Fibre Cable		Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 at 1550 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
				TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 18 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Raw material for Manufacturing	Mode Field Diameter	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
of Optical Fibre Cable	Cladding Diameter	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
		Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 at 1550 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
		Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 at 1550 nm IEC 60793-1-45	ΤΕC GR No. ΤΕC89010;2021
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 19 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Raw material for Manufacturing of Optical	Cladding Diameter	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
Fibre Cable		Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 at 1310 nm IEC 60793-1-45	TEC GR No. TEC89010:2021
	Cladding Non- Circularity	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-20	TEC GR No. TEC89010:2021
		Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-20	TEC GR No. TEC89010:2021
		Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-20	TEC GR No. TEC89010:2021
	4	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-20	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 20 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Raw material for Manufacturing	Cladding Non- Circularity	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-20	TEC GR No. TEC89010:2021
	of Optical Fibre Cable	tical	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-20	TEC GR No. TEC89010:2021
			Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 21 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Raw material for Manufacturing	Core Clad Concentricity error	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
of Optical Fibre Cable		Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Coating/ Cladding Concentricity	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) 250 µm fibre	TEC GR No. TEC89010:2021
		(ii) 200 μm fibre IEC 60793-1-20, IEC 60793-2-50	*

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 22 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Raw material for Manufacturing of Optical Fibre Cable	Coating/ Cladding Concentricity	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-20, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Coating Diameter	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 23 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

	Equipment/ Product			Specification
	The state of the s	Coating Diameter	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021	
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-21, IEC 60793-2-50	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 24 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

SI.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		184

Raw material for Manufacturing of Optical Fibre Cable	Fibre Attenuation before Cabling	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D (i) at 1310 nm (ii between 1285-1380 nm (iii) between 1390-1525 nm (iv) at 1550 nm (v) between 1525-1625 nm (vi) at 1270 nm (vii) at 1490 nm (viii) at 1625 nm (ix) water peak attenuation at 1380 to 1390 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
		Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 (i) between 1525 - 1565 nm (ii between 1565 - 1625 nm (iii) at 1550 nm (iv) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 25 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Sl. No.	Telecom Equipment/ Product	Test Parameter	or Type of Testing	Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	Fibre Attenuation before Cabling	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 (i) between 1460-1525 nm (ii) between 1525-1565 nm (iii) between 1565-1625 nm (iv) at 1550 nm (v) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) at 1270 nm (ii) at 1310 nm (iii) between 1285 -1360 nm (iv) between 1360 -1480 nm (v) at 1490 nm (vi) between 1480 to 1525 nm (vii) at 1550 nm (viii) between 1525 to 1625 nm (ix) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 26 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on: _

Standard/

Specification

Raw material for Manufacturing of Optical Fibre Cable	Fibre Attenuation before Cabling	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) at 1270 nm (ii) at 1310 nm (iii) between 1285 -1360 nm (iv) between 1306-1480 nm (v) at 1490 nm (vi) between 1480-1525 nm (vii) at 1550 nm (viii) between 1525-1625 nm (ix) at 1625 nm IEC 60793-1-40	
	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3	TEC GR No. TEC89010:202	

(i) at 1310 nm

(iv) at 1550 nm

(vi) at 1270 nm(vii) at 1490 nm

(ii) between 1285 -1360 nm (iii) between 1360 -1525 nm

(v) between 1525 to 1625 nm

(viii) at 1625 nm, IEC 60793-1-40

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 27 of 152

Validity: 30/08/2022 to 29/08/2025

SI Telecom

Last Amended on:

Standard/

No	p. Equipment/ Product	Test I ai ainetei	of Type of Testing	Specification
	Raw material for Manufacturing of Optical Fibre Cable	Fibre Attenuation after Cabling	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D (i) at 1310 nm (ii) at 1550 nm (iii) at 1625 nm (iv) at 1490 nm (v) water peak attenuation at	TEC GR No. TEC89010:2021

1383nm ± 3nm IEC 60793-1-40 Section-I, Type-II, Single Mode TEC GR No. Optical Fibre as per ITU-T G.655 TEC89010:2021 (i) at 1550 nm (ii) at 1625 nm IEC 60793-1-40 Section-I, Type-III, Single Mode TEC GR No. Optical Fibre as per ITU-T G.656 TEC89010:2021 (i) at 1440 nm (ii) at 1550 nm (iii) at 1625 nm (iv) water peak attenuation at

Director (CA), TEC

AD (CA), TEC

*The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.

1383nm ± 3nm IEC 60793-1-40



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 28 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			Specification
Raw material for Manufacturing of Optical Fibre Cable	Fibre Attenuation after Cabling	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) at 1310 nm (ii) at 1383 nm (iii) at 1490 nm (iv) at 1550 nm (v) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) at 1310 nm (ii) at 1383 nm (iii) at 1490 nm (iv) at 1550 nm (v) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 29 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

No. Equipment/ Product			Specification
Raw material for Manufacturing of Optical Fibre Cable	Fibre Attenuation after Cabling	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 (i) at 1310 nm (ii) at 1383 nm (iii) at 1490 nm (iv) at 1550 nm (v) at 1625 nm IEC 60793-1-40	TEC GR No. TEC89010:2021
	Cable Cut off Wavelength	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 30 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

	quipment/ roduct			Specification
1	Raw material for Manufacturing	Cable Cut off Wavelength	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
	of Optical Fibre Cable		Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-44, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Fibre Cutoff Wavelength for Fibre used in	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-44	TEC GR No. TEC89010:2021
		Patch cords & Pig-tails	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-44	TEC GR No. TEC89010:2021
		Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-44	TEC GR No. TEC89010:2021	
		Fibre Curl	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 31 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

No.	Equipment/ Product	Test rarameter (or Type of Testing	Standard/ Specification
	Raw material for Manufacturing	Fibre Curl	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
	of Optical Fibre Cable		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-34, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel)	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 32 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

SI. No.	Telecom Equipment/ Product	Test Parameter	or Type of Testing	Standard/ Specification
	Raw material for Manufacturing of Optical	Fibre Macro bend loss (Change in Attenuation	Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Fibre Cable	When fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel)	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Fibre Macro bend loss (Change in Attenuation	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		When fibre is coiled with 1 turn around	Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		32 ± 0.5 mm diameter mandrel)	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Sl. Telecom

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 33 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

		Type of Testing	Specification
Raw material for Manufacturing of Optical Fibre Cable	Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel)	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Fibre Macro bend loss (Change in Attenuation When fibre is	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
	coiled with 10 turns on 15 mm radius mandrel)	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Equipment/ Product Raw material for Manufacturing of Optical	Raw material for Manufacturing of Optical Fibre Cable Fibre Cable Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel) Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 10 turns on 15 mm	Raw material for Manufacturing of Optical Fibre Cable Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel) Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-47, IEC 60793-2-50



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 34 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

SI. No.	Telecom Equipment/ Product Raw material for Manufacturing of Optical Fibre Cable	Test Parameter or Type of Testing		Standard/ Specification
		Fibre Macro bend loss (Change in	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Attenuation When fibre is coiled with 1 turn on 10 mm radius mandrel	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Fibre Macro bend loss (Change in Attenuation	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		When fibre is coiled with 1 turn on 7.5 mm radius mandrel	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 35 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Raw material for Manufacturing of Optical Fibre Cable	Fibre Macro bend loss (Change in Attenuation When fibre is coiled with 1 turn on 5 mm radius mandrel	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-47, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Polarization Mode Dispersion for	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Uncabled Fiber	Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 36 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Raw material for Manufacturing	Polarization Mode Dispersion for	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
	of Optical Fibre Cable	Uncabled Fiber	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Polarization Mode Dispersion for Cabled Fiber	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
			Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 37 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

No. Equipment/ Product Specifica	13	Standard/ Specificatio	Test Parameter or Type of Testing		No.
----------------------------------	----	---------------------------	-----------------------------------	--	-----

Raw material for Manufacturing	Polarization Mode Dispersion	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:2021
of Optical Fibre Cable	for Cabled Fiber	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-48, IEC 60793-2-50	TEC GR No. TEC89010:202
	Zero Dispersion Slope	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-42	TEC GR No. TEC89010:202
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-42	TEC GR No. TEC89010:202
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-42	TEC GR No. TEC89010:202
		Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-42	TEC GR No. TEC89010:202

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 38 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Raw material for Manufacturing	Zero Dispersion Wavelength range	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-42	TEC GR No. TEC89010:2021
of Optical Fibre Cable		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 IEC 60793-1-42	TEC GR No. TEC89010:2021
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 IEC 60793-1-42	TEC GR No. TEC89010:2021
		Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-42	TEC GR No. TEC89010:2021
	Peak Stripability Force to Remove	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Primary Coating of the fiber (Unaged,	Section-I, Type-II, Single Mode Optical Fibre as per ITU-T G.655 IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Water aged, Damp Heat aged)	Section-I, Type-III, Single Mode Optical Fibre as per ITU-T G.656 IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 39 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Equipment/ Product			Specification
Raw material for Manufacturing of Optical	Peak Stripability Force to Remove Primary Coating of the	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
Fibre Cable	fiber (Unaged, Water aged, Damp Heat aged)	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 (i) 250 µm fibre (ii) 200 µm fibre IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
	7	Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 IEC 60793-1-32, IEC 60793-2-50	TEC GR No. TEC89010:2021
	Total Dispersion (Chromatic Dispersion)	Section-I, Type-I, Single Mode Optical Fibre as per ITU-T G.652.D i) In 1285-1330 nm band ii) In 1270-1340 nm band iii) at 1550 nm iv) at 1625 nm IEC 60793-1-42, IEC 60793-2-50	TEC GR No. TEC89010:2021

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 40 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

Equipment/ Product			Specification
Raw material for Manufacturing of Optical Fibre Cable	Total Dispersion (Chromatic Dispersion)	Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A1 i) In 1285-1330 nm band ii) In 1270-1340 nm band iii) at 1550 nm iv) at 1625 nm IEC 60793-1-42, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-IV, Single Mode Optical Fibre as per ITU-T G.657.A2 i) In 1285-1330 nm band ii) In 1270-1340 nm band iii) at 1550 nm iv) at 1625 nm IEC 60793-1-42, IEC 60793-2-50	TEC GR No. TEC89010:2021
		Section-I, Type-V, Single Mode Optical Fibre as per ITU-T G.657.B3 i) In 1285-1330 nm band ii) In 1270-1340 nm band iii) at 1550 nm iv) at 1625 nm IEC 60793-1-42, IEC 60793-2-50	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Standard/

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 41 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

Test Parameter or Type of Testing

No.	Raw material for Manufacturing of Optical Fibre Cable Raw material Central Strength Member Fibre reinforced Plastic rod (FRP)	Test Parameter or Type of Testing		Specification
		Thermal Resistance Test as per TEC 89010:2021	TEC GR No. TEC89010:2021	
		Elongation at Break as per ASTM D3916	TEC GR No. TEC89010:2021	
			Heat Stress Test as per TEC 89010:2021	TEC GR No. TEC89010:2021
	_		Minimum Bend Diameter as per TEC 89010:2021	TEC GR No. TEC89010:2021
			Tensile Strength at break as per ASTM D3916	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021

Director (ĆA), TEC

Sl. Telecom

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 42 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

No. Equipment/ Product				Specification
9	Raw material for	Section- III [Generic	Carbon Black content as per ASTM D1603	TEC GR No. TEC89010:2021
	of Optical of Sheath Material	Material (Polyethylene HDPE	Environmental Stress Cracking Resistance (ESCR) as per ASTM D1693	TEC GR No. TEC89010:2021
			Carbon black dispersion as per IS-7328	TEC GR No. TEC89010:2021
			Oxidation Induction Time as per ASTM D3895	TEC GR No. TEC89010:2021
			Density Test as per ASTM D792	TEC GR No. TEC89010:2021
			Elongation at Break as per ASTM D638	TEC GR No. TEC89010:2021
			Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
			Moisture (content) Test as per ASTM D817	TEC GR No. TEC89010:2021
			Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:2021



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 43 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

No. Equipment/ Product			Specification
Raw material for Manufacturing of Optical Fibre Cable	Section- III [Generic Requirements of Sheath Material (Polyethylene HDPE (BLACK)]	UV Resistance Test as per IEC 60794-1-22, ASTM 154	TEC GR No. TEC89010:2021
	Section- IV [Generic	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
	Requirements of Outer JACKET Material	Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
	(Polyamide–12)]	Elongation as per ASTM D638	TEC GR No. TEC89010:2021
		Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:2021
		Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021
		Hardness as per ASTM D 2240	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 44 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

1101	Product			Specification
	for Manufacturing of Optical Fibre Cable [Gener Requir Outer Materi (Polyar Section	Section- IV [Generic Requirements of Outer JACKET Material (Polyamide–12)]	Nos & Colour identification of Fiber per unit/tube/cable as per Munsell TIA 598	TEC GR No. TEC89010:2021
		Section- V [Generic	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
		Requirements of Outer JACKET	Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
		Material Polyamide –11]	Elongation test as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021
			Hardness as per ASTM D 2240	TEC GR No. TEC89010:2021
			Nos & Colour identification of Fiber per unit/tube/cable as per Munsell TIA 598	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 45 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

Sl. Telecom	Test Parameter or Type of Testing	Standard/
No. Equipment/		Specification
Product		

Raw material for Manufacturing	Section- VI- 1 Generic Requirements of	Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:2021
of Optical Fibre Cable	Polypropylene Material	Elongation Test as per ASTM D638	TEC GR No. TEC89010:202
		Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:202
	Section- VI- 2 Generic Requirements of Polybutylene	Melt Flow Rate (Melt Flow Index) as per ASTM D1238	TEC GR No. TEC89010:202
	Terephthalate (PBTP) Material	Elongation Test as per ASTM D638	TEC GR No. TEC89010:202
		Tensile Strength Test as per ASTM D638	TEC GR No. TEC89010:202
		Water Absorption as per ASTM D 570	TEC GR No. TEC89010:202

Director (CA), TEC

AD (CA), TEC

^{*}The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 46 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for	Section- VII, Type- 1, Type- 2	Cone Penetration at 25°C as per ASTM D217	TEC GR No. TEC89010:2021
	of Optical [Generic Require	[Generic Requirements of FILLING	Cone Penetration at -30 °C as per ASTM D217	TEC GR No. TEC89010:2021
		COMPOUND for LOOSE TUBE (For	Density Test as per ASTM D1217	TEC GR No. TEC89010:2021
		Temperature Range of -30°C to + 80°C & For	Drop point as per ASTM 566	TEC GR No. TEC89010:2021
		Temperature Range of -40°C to + 80°C)]	Flash point as per ASTM D92	TEC GR No. TEC89010:2021
			Filling Jelly Compatibility with Fiber coating, UV Ink & Tube Material as per ASTM D4568	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 47 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Manufacturing of Optical Fibre Cable Flooding Compound (For	Type- 1, Type- 2	Cone Penetration at 25°C as per ASTM D217	TEC GR No. TEC89010:2021
		of Cable	Cone Penetration at -30 °C as per ASTM D217	TEC GR No. TEC89010:2021
		Range of	Density test as per ASTM D1217	TEC GR No. TEC89010:2021
		-30°C to +80°C & For Temperature	Drop point as per ASTM 566	TEC GR No. TEC89010:2021
		Range of -40°C to + 80°C]	Flash point as per ASTM D92	TEC GR No. TEC89010:2021
			Filling Jelly Compatibility with Fiber coating, UV Ink & Tube Material as per ASTM D4568	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 48 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Sl. Telecom No. Equipment/ Product	Test Parameter of	Test Parameter or Type of Testing	
Raw materia for Manufactur of Optical	Type-1, Type-2		TEC GR No. TEC89010:2021
Fibre Cable	NYLON/ POLYESTER Binder Thread (PP & Nylon/ Polyester)]	Elongation Test as per ASTM D882	TEC GR No. TEC89010:2021
	Section- X [Generic Requirements of Polyester	Tensile (breaking load) & Belt Strength as per ASTM D882	TEC GR No. TEC89010:2021
	Foil/Tape (Natural)]	Elongation test as per ASTM D882	TEC GR No. TEC89010:2021

Director (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 49 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

		Specification
Section- XI [Generic	Elongation as per ASTM D3916	TEC GR No. TEC89010:2021
Impregnated	Minimum Bend Diameter as per TEC GR No. TEC89010:2021	TEC GR No. TEC89010:2021
Fibre	Tensile Strength Test as per ASTM D3916	TEC GR No. TEC89010:2021
Plastic ROD]	Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021
Section- XII [Generic Requirements of Impregnated Glass Fibre Reinforced]	Water Absorption as per ASTM D 570	TEC GR No. TEC89010:2021
Section- XIV [Generic	Swelling Speed as per As per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021
of Water BLOCKING	Swelling Height as per As per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021
	[Generic Requirements of Impregnated Semi Rigid Fibre Reinforced Plastic ROD] Section- XII [Generic Requirements of Impregnated Glass Fibre Reinforced] Section- XIV [Generic Requirements of Mater	Generic Requirements of Impregnated Semi Rigid Fibre Reinforced Plastic ROD Water Absorption as per ASTM D 570 Section- XII [Generic Requirements of Impregnated Glass Fibre Reinforced] Section- XIV [Generic Requirements of Water As per TEC GR No. 89010:2021 Swelling Height as per As per TEC GR No. 89010:20

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 50 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

SI. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for Manufacturing of Optical Fibre Cable	Section- XVI [Generic Requirements	Elongation at Break as per ASTM D3916	TEC GR No. TEC89010:2021
		of Aramid Reinforced PLASTIC	Heat Stress Test as per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021
		(ARP) ROD]	Minimum Bend Diameter as per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021
			Tensile Strength at break as per ASTM D3916	TEC GR No. TEC89010:2021
		Section- XVIII [Generic Requirements	Gram per Denier (GPD) ASTM D2256/ D2256M	TEC GR No. TEC89010:2021
		of POLYESTER RIP CORD	Breaking Load as per ASTM D2256/ D2256M	TEC GR No. TEC89010:2021
			Elongation at Break as per ASTM D2256/ D2256M	TEC GR No. TEC89010:2021

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Test Parameter or Type of Testing

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 51 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

No.	Equipment/ Product	Test Parameter or Type of Testing		Specification	
	Raw material for Manufacturing	Section- XIX [Generic Requirements	Breaking Load as per ASTM D2256/ D2256M	TEC GR No. TEC89010:2021	
	of Optical Fibre Cable Section- XX [Generic Requirements of LSZH Material (for Sheathing]	Elongation at Break as per ASTM D2256/ D2256M	TEC GR No. TEC89010:2021		
			Swelling Capacity as per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021	
			Swelling Speed as per TEC GR No. 89010:2021	TEC GR No. TEC89010:2021	
		[Generic	Environmental Stress Cracking Resistance (ESCR) as per ASTM D1693	TEC GR No. TEC89010:2021	
		Material	Elongation at Break as per ASTM D638	TEC GR No. TEC89010:2021	
		(for Sheathing]	Tensile Strength as per ASTM D638	TEC GR No. TEC89010:2021	
			Hardness as per ASTM D2240	TEC GR No. TEC89010:2021	

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa-396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 52 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

SI. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
	Raw material for	Section- XXI (Generic	Carbon black content as per ASTM D1603	TEC GR No. TEC89010:2021
	Manufacturing of Optical	Anti Tracking	Environmental Stress Cracking Resistance (ESCR) as per ASTM D1693	TEC GR No. TEC89010:2021
	Tibre cable		Carbon black dispersion as per IS-7328	TEC GR No. TEC89010:2021
			Oxidation Induction Time as per ASTM D3895	TEC GR No. TEC89010:202
			Density Test as per ASTM D792	TEC GR No. TEC89010:202
		Elongation as per ASTM D638	TEC GR No. TEC89010:202	
			Moisture (Content) Test as per ASTM D1238	TEC GR No. TEC89010:202
			Tensile Strength as per ASTM D638	TEC GR No. TEC89010:2021
			UV Resistance Test as per IEC 60794-1-22, ASTM G-154	TEC GR No. TEC89010:202

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

SI.

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 53 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

No. Equipment/ Product			Specification
Raw material for Manufacturing of Optical Fibre Cable	Section- XXI (Generic Requirements of Anti Tracking Polyethylene for ADSS OPTICAL FIBRE CABLE)	Tracking & Erosion Test (For Track Resistance) as per IEC60794-4-20, ASTM D 2303	TEC GR No. TEC89010:2021
	Section- XXII [Generic	Cone Penetration at 25°C as per ASTM D217	TEC GR No. TEC89010:2021
	Requirements of Specification	Cone Penetration at -30 °C as per ASTM D217	TEC GR No. TEC89010:2021
for FILLING JELLY for OPGW CABLE]	JELLY for	Density as per ASTM D1217	TEC GR No. TEC89010:2021
		Drop point as per ASTM 566	TEC GR No. TEC89010:2021
		Flash point as per ASTM D92	TEC GR No. TEC89010:2021
		Oil separation as per FTM 791-321	TEC GR No. TEC89010:2021



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 54 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
7	Raw material for Manufacturing	Section- XXII [Generic Requirements	Volatility loss as per FTM 791-321	TEC GR No. TEC89010:2021
	of Optical Fibre Cable O	of Specification for FILLING JELLY for OPGW CABLE]	Filling Jelly Compatibility with Fiber coating, UV Ink & Tube Material as per ASTM D4568	TEC GR No. TEC89010:2021
		Section- XXVII [Generic	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
		Requirements of	Melt Flow Rate as per ASTM D1238	TEC GR No. TEC89010:2021
	1	Polyamide 12 / Polyamide 11 for TIGHT BUFFER]	Elongation as per ASTM D638	TEC GR No. TEC89010:2021
			Tensile Strength as per ASTM D792	TEC GR No. TEC89010:2021
			Melting Point as per ASTM D3418	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D570	TEC GR No. TEC89010:2021



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Sl. Telecom

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Test Parameter or Type of Testing

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 55 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ____

Standard/

No.	Equipment/ Product	Test Parameter o	r Type of Testing	Specification
	Raw material for Manufacturing of Optical Fibre Cable	Section- XXVII [Generic Requirements of Polyamide 12 / Polyamide 11 for TIGHT BUFFER]	Hardness as per ASTM D2240	TEC GR No. TEC89010:2021
		Polyamide 10,	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
	Requirements of Polyamide 10, for OUTER JACKET Material]		Melt Flow Rate as per ASTM D1238	TEC GR No. TEC89010:2021
		JACKET	Elongation as per ASTM D638	TEC GR No. TEC89010:2021
		Material	Tensile Strength as per ASTM D638	TEC GR No. TEC89010:2021
			Water Absorption as per ASTM D570	TEC GR No. TEC89010:2021
		Hardness as per ASTM D2240	TEC GR No. TEC89010:2021	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 56 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom

Last Amended on: ___

Standard/

No.	Equipment/ Product			Specification
5	for [Generic	of Fiber per unit/tube/cable as per	TEC GR No. TEC89010:2021	
		Section- XXIX [Generic	Density Test as per ASTM D792	TEC GR No. TEC89010:2021
		Requirements of	Melt Flow Rate as per ASTM D1238	TEC GR No. TEC89010:2021
	Polyurethane (TPU) for OUTER JACKET Material]	(TPU) for	Water Absorption as per ASTM D570	TEC GR No. TEC89010:2021
		JACKET	Hardness as per ASTM D2240	TEC GR No. TEC89010:2021
		Colour (Nos & Colour identification of Fiber per unit/tube/cable as per Munsell TIA 598	TEC GR No. TEC89010:2021	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom No. Equipment/

Product

SI.

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 57 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ____

Standard/

Specification -

3	Optical Fibre Cable	Variant-1: Hybrid Cable - Optical and Metallic	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022110
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
		Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110	
			Kink Test as per IEC 60794-1-21	TEC ER No. TEC70022110

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

No. Equipment/

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 58 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-1: Hybrid Cable - Optical and Metallic	Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Repeated Bend Test as per IEC 60794-1-21	
		Torsion Test as per IEC 60794-1-21	
		Cable drip Test as per IEC 60794-1-22	
		Abrasion Resistance Test as per IEC 60794-1-21	TEC70022110 TEC ER No. TEC70022110
		Temperature Cycling as per IEC 60794-1-22	
		Cable Aging test as per IEC 60794-1-22	
the said		Water Blocking Test as per IEC 60794-1-22	
		UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 59 of 152

Standard/

Test Parameter or Type of Testing

No.	Equipment/ Product	Test rarameter or Type or Testing		Specification
	Optical Fibre Cable Variant-1: Hybrid Cable - Optical and Metallic	Hybrid Cable -	Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110
		Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110	
		Electrical Continuity Test as per IEC 60794-1-24, IEC 60794-3-11	TEC ER No. TEC70022110	
			Kink Resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			Water tightness /Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

Sl. Telecom

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa-396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 60 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

	Product			•
	Optical Fibre Cable	Variant-1: Hybrid Cable - Optical and	Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
		Metallic	Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Micro-bend Test as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			Mode Field Diameter at 1310 nm/1550nm as per IEC60793-1-45	TEC ER No. TEC70022110
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
			Core Clad concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 61 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Optical Fibre Cable	Variant-1: Hybrid Cable - Optical and	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Metallic	Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
			Zero Dispersion Slope as per IEC 60793-1-42	TEC ER No. TEC70022110
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 62 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom No. Equipment/ Last Amended on:

Standard/

Specification

Optical Fibre	Variant-1:	Fibre Macro bend loss as per ITU-	TEC ER No.
Cable	Hybrid Cable - Optical and Metallic	T G.65x, ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel	TEC70022110
		(iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel	
		(iv) Change in attenuation when fibre is coiled with10 turns on 15 mm radius mandrel	
		(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Sl. Telecom

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Test Parameter or Type of Testing

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 63 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
			(vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel	
	Optical Fibre Cable	Variant-1: Hybrid Cable - Optical and Metallic	Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110
			Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 64 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

SI.

Last Amended on:

Standard/

Specification

1	Product			
	Optical Fibre Cable Optical Fibre Cable - ADSS on Aerial Alignment	Optical Fibre Cable - ADSS on Aerial	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
			Cable Cut-off wavelength as per IEC 60793-1-44	
			Tensile Strength Test as per IEC 60793-1-21	
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

No. Equipment/ Product

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 65 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-2: Optical Fibre	Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Cable - ADSS on Aerial	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Alignment	Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110 TEC ER No. TEC70022110
		Cable drip Test as per IEC 60794-1-22	
		Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Aeolian Vibration Test as per IEEE 1222	TEC ER No. TEC70022110
		Galloping Test as per IEEE 1222	TEC ER No. TEC70022110
		Creep Test as per IEC 60794-4-20	TEC ER No. TEC70022110
		Snatch Test as per IEC 60794-1-2-E9	TEC ER No. TEC70022110
		Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022110

Director (CA), TEC

^{*}The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 66 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Deadnet

SI.

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-2: Optical Fibre	Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
	Cable - ADSS on Aerial	Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
	Alignment	UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110
		Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
		Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
		Drainage Test/Compound Flow Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Water tightness /Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

No. Equipment/

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 67 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-2: Optical Fibre Cable - ADSS	Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
	on Aerial Alignment	Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
	Angiment	Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
	per IEC 6079 Ribbon T	Ribbon Compression Resistance as	TEC ER No. TEC70022110
		Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 68 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-2: Optical Fibre	Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
	Cable - ADSS on Aerial	Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110 TEC ER No. TEC70022110
	Alignment	Core Clad concentricity error as per IEC 60793-1-20	
		Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Coating/Cladding Concentricity as pe IEC 60793-1-21, IEC 60793-2-50	
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC70022110 TEC ER No. TEC70022110 TEC ER No. TEC70022110 TEC70022110
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

ADI(CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 69 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom No. Equipment/ Last Amended on:

Standard/

Specification

Optical Fibre	Variant-2:	Fibre Macro bend loss as per ITU-T	TEC ER No. TEC70022110
Cable	Optical Fibre Cable - ADSS	G.65x, ITU-T G.650.1, IEC 60793- 2-50 and IEC 60793-1-47:	TEC/0022110
	on Aerial	(i) Change in attenuation when fiber	
	Alignment	is coiled with 100 turns on 60 ±1.0 mm diameter mandrel	
		(ii) Change in attenuation when fiber	
		is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel	
		(iii) Change in attenuation when	
		fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel	
		(iv) Change in attenuation when fibre	
		is coiled with 10 turns on 15 mm radius mandrel	
		(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa-396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 70 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on: _

Standard/

Specification

Product			- Promount
		radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel	
Optical Fibre Cable	Variant-2: Optical Fibre Cable - ADSS on Aerial Alignment	Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110

Director (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 71 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ____

Telecom Equipment/ Product	Test Paramete	er or Type of Testing	Standard/ Specification
Ontical Fibre	Variant-3	Attenuation as per IEC-60793-1-40	TEC ER No

	Optical Fibre Cable	Variant-3: Optical Fibre Cable- ADSS over Power line	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
			Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022110
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 72 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on: ___

Standard/

TEC ER No.

No.	Product			Specification
	Optical Fibre Cable	Variant-3: Optical Fibre	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Cable- ADSS over Power line	Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110

Aeolian Vibration Test as per

IEEE 1222	TEC70022110
Galloping Test as per	TEC ER No.
IEEE 1222	TEC70022110
Creep Test as per	TEC ER No.
IEC 60794-4-20	TEC70022110
Snatch Test as per	TEC ER No.
IEC 60794-1-2-E9	TEC70022110
Electrical Test/ Tracking & Erosion	TEC ER No.
Test as per	TEC70022110

rector (CA), TEC

AD (CA), TEC

*The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.

IEC60794-4-20



Standard/

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 73 of 152

Test Parameter or Type of Testing

No.	Equipment/ Product			Specification
	Optical Fibre Cable	Variant-3: Optical Fibre	Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022110
		Cable- ADSS over Power line	Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Check of the effect of aggression media on the cable ISO 175	TEC ER No. TEC70022110
			Cable Material Compatibility Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
			Drainage Test/Compound Flow Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

SI.

Telecom

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 74 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

No.	Telecom Equipment/ Product	Test Paramete	er or Type of Testing	Standard/ Specification
	Optical Fibre	Variant-3:	Water tightness / Water Blocking tes	ST TEC ER No.

	Optical Fibre Cable	Variant-3: Optical Fibre Cable- ADSS	Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
		over Power line	Strippability Test - Tight Buffer Test as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 75 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-3: Optical Fibre Cable- ADSS	Mode Field Diameter at 1310 nm/ 1550nm as per IEC60793-1-45	TEC ER No. TEC70022110
	over Power line	Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
		Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
		Core Clad concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110
		Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 76 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

roduct			
Optical Fibre Cable	Variant-3: Optical Fibre	Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
	Cable- ADSS over Power line	Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110
		Fibre Macro bend loss as per ITU- T G.65x, ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47:	TEC ER No. TEC70022110
		(i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel	
		(ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel	
		(iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel	

Director (CA), TEC

*The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.

AD (CA) TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

No. Equipment/

Product

SI.

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 77 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ____

Standard/

Specification

Optical Fibre	Variant-3:	(iv) Change in attenuation when fibre	
Cable	Optical Fibre Cable- ADSS over Power line	is coiled with 10 turns on 15 mm radius mandrel	
		(v) Change in attenuation when fibre	
		is coiled with 1 turn on 10 mm radius mandrel	
		(vi) Change in attenuation when fibre	
		is coiled with 1 turn on 7.5 mm radius mandrel	
		(vii) Change in attenuation when	
		fibre is coiled with 1 turn on 5 mm radius mandrel	
		Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 78 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

		Felecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
--	--	----------------------------------	-----------------------------------	----------------------------

	Optical Fibre Cable	Variant-4: Optical Fibre Cable- Direct Buried	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
			Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022110
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
0.				0

Director (CA), TEC

AD (CA), TEC

^{*}The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

No. Equipment/

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 79 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-4: Optical Fibre	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Cable- Direct Buried	Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022110
		Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 80 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ___

SI. No.	Telecom Equipment/ Product	Test Parameter	or Type of Testing	Standard/ Specification
	Optical Fibre Cable	Variant-4: Optical Fibre	Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
		Cable- Direct Buried	Electrical Continuity Test as per IEC 60794-1-24, IEC 60794- 3-11	TEC ER No. TEC70022110

IEC 60794-1-24, IEC 60794- 3-11	TEC70022110
Kink Resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
Drainage Test/ Compound Flow Test as per IEC 60794-1-21, IEC 60794-3, IEC 60794-3	TEC ER No. TEC70022110
Water tightness /Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
Strippability Test -Tight Buffer Test as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

No. Equipment/

Product

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 81 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

	Optical Fibre Cable	Variant-4: Optical Fibre Cable- Direct	Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
		Buried	Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			Mode Field Diameter at 1310 nm/ 1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
			Core Clad concentricity error as per	TEC ER No.

Director (CA), TEC

AD (CA), TEC

TEC70022110

*The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.

IEC 60793-1-20



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa-396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 82 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

	Optical Fibre Cable	Variant-4: Optical Fibre Cable- Direct	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Buried	Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
			Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70022110
			(i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	
			Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 83 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

SI.

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-4: Optical Fibre Cable- Direct	Fibre Macro bend loss as per ITU- T G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47:	TEC ER No. TEC70022110
	Buried	(i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel	
		(ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel	
		(iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel	
		(iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel	
		(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel	

Shory Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 84 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-4: Optical Fibre Cable- Direct Buried	(vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5mm radius mandrel.	
		Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 85 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/ Product Last Amended on: ____

Standard/

Specification

Optical Fibre Cable	Variant-5: Optical Fibre Cable- DSA	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
		PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
		Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
		Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
		Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 86 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

SI.

Last Amended on:

Standard/

Specification

	Optical Fibre Cable	Variant-5: Optical Fibre	Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Cable- DSA	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
		1	Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 87 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-5: Optical Fibre	Check of the effect of aggression media on the cable as per	TEC ER No. TEC70022110
Cable	Cable- DSA	ISO 175	
		Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
		Electrical Continuity Test as per IEC 60794-1-24, IEC 60794-3-11	TEC ER No. TEC70022110
		Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
		Drainage Test/Compound Flow test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Strippability Test - Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
		Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 88 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

SI.

Last Amended on:

Standard/

Specification

rroduct			
Optical Fibre Cable	Variant-5: Optical Fibre Cable- DSA	Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Mode Field Diameter at 1310 nm/1550nm as per IEC60793-1-45	TEC ER No. TEC70022110
		Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
		Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 89 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Telecom Equipment/ Product	Test Paramete	er or Type of Testing	Standard/ Specification
O-ti1 Fil		C - C - 1 C	hred pp M

Optical Fibre Cable	Variant-5: Optical Fibre Cable- DSA	Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110
		Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Coating/Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 90 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

No. Equipment/ Product	Test Parameter or Type of Testing		Standard/ Specification
Ontical Fibra	Vorious 5	Two same and	

Optical Fibre	Variant-5:	Fibre Macro bend loss as per ITU-T	TEC ER No.
Cable	Optical Fibre	G.65x ,ITU-T G.650.1, IEC 60793-	TEC70022110
	Cable- DSA	2-50 and IEC 60793-1-47:	
		(i) Change in attenuation when fiber	
		is coiled with 100 turns on 60 ±1.0 mm diameter mandrel	
		(ii) Change in attenuation when fiber	
		is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel	-
		(iii) Change in attenuation when	
		fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel	
	- 68	(iv) Change in attenuation when fibre	
		radius mandrel	
	EDWO SERVICE SERVICES	Cable Optical Fibre	Cable Optical Fibre Cable- DSA G.65x ,ITU-T G.650.1, IEC 60793- 2-50 and IEC 60793-1-47: (i) Change in attenuation when fiber is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fiber is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fiber is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 91 of 152

SI.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		

Optical Fibre Cable	Variant-5: Optical Fibre Cable- DSA	(v) Change in attenuation when fibre is coiled with 1turn on 10 mm radius mandrel	TEC ER No. TEC70022110
		(vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel	
		(vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	
		Peak Stripability force to remove Primary coating of the fiber (Unaged Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 92 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

SI. Telecom No. Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
--	-----------------------------------	----------------------------

Optical Fibre Cable	Variant-6: Optical Fibre Cable- Duct	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
		PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
*		Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
		Tensile Strength Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
		Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110
		Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

No. Equipment/

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 93 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-6: Optical Fibre	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Cable- Duct	Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 94 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

SI.

Last Amended on:

Standard/

Specification

_				
	Optical Fibre Cable	Variant-6: Optical Fibre	Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
		Cable- Duct	Electrical Continuity Test as per IEC 60794-1-24, IEC 60794- 3-11	TEC ER No. TEC70022110
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		183	Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Strippability Test -tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 95 of 152

Sl. Telecom No. Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
--	-----------------------------------	----------------------------

	Optical Fibre Cable	Variant-6: Optical Fibre Cable- Duct	Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Cable Buct	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Stripåbility Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 96 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-6: Optical Fibre Cable- Duct	Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50	TEC ER No. TEC70022110
		(i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 97 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-6: Optical Fibre	Fibre Macro bend loss as per ITU-T	TEC ED N
	Cable- Duct	G.65x ,ITU-T G.650.1, IEC 60793-2-50 and IEC 60793-1-47: (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 98 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

Optical Fibre	Variant-6:	(v) Change in attenuation when fibre	TEC ER No.
Cable	Optical Fibre Cable- Duct	is coiled with 1 turn on 10 mm radius mandrel	TEC70022110
		(vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm	
		radius mandrel	
		(vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel	
		Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

No. Equipment/

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 99 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Product			Бреспецион
Optical Fibre Cable	Variant-7: Optical Fibre Cable- In Home	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
		PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
		Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
		Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022110
		Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
		Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110
		Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 100 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Telecom Equipment/ Product	Test Parameter	er or Type of Testing	Standard/ Specification
Optical Fibre Cable	Variant-7:	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110

Optical Fibre Cable	Variant-7: Optical Fibre Cable- In Home	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
): 	Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022110
1 . 1		Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110
		Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
		Mode Field Diameter at 1310 nm/1550nm as per IEC60793-1-45	TEC ER No. TEC70022110
		Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
		Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
			1

Director (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

No. Equipment/

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 101 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-7: Optical Fibre	Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110
	Cable- In Home	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 102 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

Optica	l Fibre	Variant-7:	Fibre Macro bend loss as per ITU-T	TEC ER No.
Cable		Optical Fibre	G.65x ,ITU-T G.650.1, IEC 60793-	TEC70022110
		Cable- In	2-50 and IEC 60793-1-47:	
		Home	(i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel	
			(ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel	
			(iii) Change in attenuation when	
			fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel	
			(iv) Change in attenuation when fibre	
			is coiled with 10 turns on 15 mm radius mandrel	

Director (CA), TEC

AD (CA), TEC



Standard/

Specification

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 103 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

Test Parameter or Type of Testing

Product			P
Optical Fibre Cable	Variant-7: Optical Fibre Cable- In Home	(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	TEC ER No. TEC70022110
		Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110
		Flame Spread-Single cable as per	TEC ER No.

Director (CA), TEC

Sl. Telecom No. Equipment/

AD (CA), TEC

TEC70022110

*The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.

IEC/EN 60332-1-2



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 104 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

No. Equipment/ Product	Test Parameter	or Type of Testing	Standard/ Specification
Optical Fibre Cable	Variant-8: Optical Fibre Cable- Indoor	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm	TEC ER No. TEC70022110

	Cable		(i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC70022110
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022110
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 105 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

No.	Equipment/ Product		or 13pt or 1 tomig	Specification
	Optical Fibre Cable	Variant-8: Optical Fibre	Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Cable- Indoor	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 106 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

	Product			Specification
	Optical Fibre Cable	Variant-8: Optical Fibre	Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
		Cable- Indoor	Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
			Drainage Test/Compound Flow test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			Water tightness / Water Blocking test IEC 60794-1-22	TEC ER No. TEC70022110
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110	

Shit

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name:

Telecom

No. Equipment/

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 107 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-8: Optical Fibre	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
	Cable- Indoor	Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
		Cladding Diameter Test IEC 60793-1-20	TEC ER No. TEC70022110
		Cladding Non-Circularity Test IEC 60793-1-20	TEC ER No. TEC70022110
		Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110
		Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 108 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-8: Optical Fibre Cable- Indoor	Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 109 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

Optical Fibre	Variant-8:	Fibre Macro bend loss as per ITU-T	TEC ER No.
Cable	Optical Fibre	G.65x ,ITU-T G.650.1, IEC 60793-	TEC70022110
	Cable- Indoor	2-50 and IEC 60793-1-47:	
		(i) Change in attenuation when fibre	
		is coiled with 100 turns on 60 ±1.0	
		mm diameter mandrel	
		(ii) Change in attenuation when fibre	
		is coiled with 1 turn around 32 ± 0.5	
		mm diameter mandrel	
		(iii) Change in attenuation when	
		fibre is coiled with 100 turns on 50	
		±0.5 mm diameter mandrel	
		(iv) Change in attenuation when fibre	
		is coiled with 10 turns on 15 mm	
		radius mandrel	

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 110 of 152

Sl. No.	Telecom Equipment/ Product	Test Parameter or Type of Testing	Standard/ Specification
	roduct		

Optical Fibre Cable	Variant-8: Optical Fibre Cable- Indoor	 (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel. 	TEC ER No. TEC70022110
		Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110
		Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC

^{*}The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

No. Equipment/

Product

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 111 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

	Optical Fibre Cable	Variant-9: Optical Fibre Cable- Indoor/ Outdoor	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022110
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
			Kink Test as per	TEC ER No.

IEC C 60794-1-21

AD (CA), TEC

TEC70022110



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 112 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Variant-9: Optical Fibre Cable- Indoor/ Outdoor	Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
	Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022110
	Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
	Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
	UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110
	Optical Fibre Cable- Indoor/	Optical Fibre Cable- Indoor/ Outdoor Repeated Bend Test as per IEC 60794-1-21 Torsion Test as per IEC 60794-1-21 Cable drip Test as per IEC 60794-1-22 Abrasion Resistance Test as per IEC 60794-1-21 Temperature Cycling Test as per IEC 60794-1-22 Cable Aging test as per IEC 60794-1-22 Water Blocking Test as per IEC 60794-1-22 UV Radiation Test as per

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Laboratory Name: M.

Telecom

No. Equipment/

M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 113 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: __

Standard/

Specification

Product			
Optical F Cable	ibre Variant-9: Optical Fibre Cable- Indoor/	Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110
	Outdoor	Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
		Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
		Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Strippability Test - Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
		Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
		Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC

^{*}The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 114 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Optical Fibre	Variant-9:	Ribbon Compression Resistance as	TEC ER No.
Cable	Optical Fibre Cable- Indoor/ Outdoor	per IEC 60794-1-31, IEC 60794-3	TEC70022110
		Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
		Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
		Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110

Core Clad Concentricity error as per

Director (CA), TEC

AD (CA), TEC

TEC ER No.

TEC70022110

*The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.

IEC 60793-1-20



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 115 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

SI.

Last Amended on: ___

Standard/

Specification

Optical Fibre Cable	Variant-9: Optical Fibre Cable- Indoor/ Outdoor	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

No. Equipment/ Product

SI.

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 116 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ____

Standard/

Specification

Optical Fibre	Variant-9:	Fibre Macro bend loss as per ITU-T	TEC ER No. TEC7002211
Cable	Optical Fibre	G.65x ,ITU-T G.650.1, IEC 60793-	1207002211
	Cable- Indoor/	2-50 and IEC 60793-1-47:	
	Outdoor	(i) Change in attenuation when fibre	
		is coiled with 100 turns on 60 ±1.0 mm diameter mandrel	
		(ii) Change in attenuation when fibre	
		is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel	
		(iii) Change in attenuation when	
		fibre is coiled with 100 turns on 50	
		±0.5 mm diameter mandrel	
		(iv) Change in attenuation when fibre	
		is coiled with 10 turns on 15 mm radius mandrel	



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

No. Equipment/

Product

SI.

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 117 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

	Optical Fibre Cable	Variant-9: Optical Fibre Cable- Indoor/ Outdoor	(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel. Peak Stripability force to remove	TEC ER No. TEC70022110
			Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC70022110
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110
			Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022110

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 118 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Telecom Equipment/	Test Parameter or Type of Testing	Standard/ Specification
Product		

Optical Fibre Cable	Variant-10: Optical Fibre Cable- Lashed Aerial	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
		PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
		Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
		Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022110
		Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
		Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 119 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Optical Fibre Cable	Optical Fibre IEC 60794-1-21		TEC ER No. TEC70022110
			Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
			Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
			UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 120 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

SI.

Last Amended on: ____

Standard/

Specification

Product			
Optical Fibre Cable	Variant-10: Optical Fibre Cable- Lashed	Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110
	Aerial	Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
,	IEC 60794-1-21, IEC 60794-3		TEC ER No. TEC70022110
		Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			TEC ER No. TEC70022110
		per IEC 60794-3, IEC 60793-1-32,	TEC ER No. TEC70022110
			TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Standard/

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 121 of 152

Test Parameter or Type of Testing

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

No.	Equipment/ Product	1 cst 1 at a meter (or Type of Testing	Specification
	Optical Fibre Cable Variant-10: Optical Fibre Cable- Lashed	Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110	
		Aerial	Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110

Director (CA), TEC

Sl. Telecom

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa-396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 122 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

SI.

Last Amended on:

Standard/

Specification

Optical I Cable	Fibre Variant-10: Optical Fibre	Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110
	Cable- Lashed Aerial	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
-		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 123 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

No. Equipment/ Product	Standard/ Specification	Test Parameter or Type of Testing		No.
------------------------	----------------------------	-----------------------------------	--	-----

Optical Fibre	Variant-10:	Fibre Macro bend loss as per ITU-T	TEC ER No.
Cable	Optical Fibre	G.65x ,ITU-T G.650.1, IEC 60793-	TEC70022110
	Cable- Lashed	2-50 and IEC 60793-1-47:	
	Aerial	 (i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel 	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

No. Equipment/

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 124 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ____

Standard/

Specification

	Product			
	Optical Fibre Cable	Variant-10: Optical Fibre Cable- Lashed Aerial	(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	TEC ER No. TEC70022110
			Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa-396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 125 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on: __

Standard/

Specification

Product			ореспеция
Optical Fibre Cable	Variant-11: Optical Fibre Cable- Micro- Duct	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
		PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
	Cable Cut-off wavelength IEC 60793-1-44 Tensile Strength as per IEC 60793-1-21 Crush Resistance as per IEC 60793-1-21	Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
			TEC ER No. TEC70022110
			TEC ER No. TEC70022110
		Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110
		Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 126 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom No. Equipment/

Product

SI.

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-11: Optical Fibre	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Cable- Micro- Duct	Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	3.00 to 2000 to 2000	Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Check of the effect of aggression media on the cable as per	TEC ER No. TEC70022110

AD (CA), TEC

*The validity of Certificate is up to 29/08/2025 or the continued validity of NABL Accreditation, whichever is earlier.

ISO 175



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 127 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on: ___

Standard/

Specification

Pr	oduct			Specification
	Optical Fibre Cable	Optical Fibre Tele Cable- Micro- Kink	Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Strippability Test - Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 128 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom No. Equipment/ Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-11: Optical Fibre	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
	Duct	Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
	I C	Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
		Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
		Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
	IEC 60793-1-20 Coating diameter a	Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110
		Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
	Optical Fibre	Optical Fibre Variant-11: Cable Optical Fibre Cable- Micro-	Optical Fibre Cable Variant-11: Optical Fibre Cable- Micro- Duct Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3 Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3 Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3 Mode Field Diameter at 1310 nm/1550 nm as per IEC 60793-1-45 Cladding Diameter as per IEC 60793-1-20 Cladding Non-Circularity as per IEC 60793-1-20 Core Clad Concentricity error as per IEC 60793-1-20 Coating diameter as per

Director (CA), TEC

AD (CA), TEC



Standard/

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 129 of 152

Test Parameter or Type of Testing

No.	Equipment/ Product			Specification
	Optical Fibre Cable	Variant-11: Optical Fibre Cable- Micro-	Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Duct	Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110	
			Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

Sl. Telecom

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 130 of 152

SI.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/	And the second s	Specification
	Product		

Optical Fibre	Variant-11:	Fibre Macro bend loss as per ITU-T	TEC ER No.
Cable	Optical Fibre	G.65x ,ITU-T G.650.1, IEC 60793-	TEC70022110
	Cable- Micro-	2-50 and IEC 60793-1-47:	
	Duct	(i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 131 of 152

Sl. Telecom	Test Parameter or Type of Testing	Standard/
No. Equipment/		Specification
Product		

	Optical Fibre Cable	Variant-11: Optical Fibre Cable- Micro- Duct	(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel. Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
				TEC ER No. TEC70022110
			Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 132 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ____

Sl. Telecom	Test Parameter or Type of Testing	Standard/
No. Equipmen	t/	Specification
Product		

	Optical Fibre Cable	Variant-12: Optical Fibre Cable- Outdoor	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
			PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
			Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
			Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022110
			Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
			Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
			Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110
			Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 133 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Fauinment/

Last Amended on: ___

Standard/

Considiention

Product			Specification
Optical Fibre Cable	Variant-12: Optical Fibre	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Cable- Outdoor	Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		UV Radiation Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 134 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

Last Amended on:

Standard/

	Equipment/ Product			Specification
	Optical Fibre Cable	Variant-12: Optical Fibre	Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
		Cable- Outdoor	Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
		30.2000 January 1, 19-20 Sp., January 15	Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3 Water tightness / Water Blocking test as per IEC 60794-1-22 Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010 Ribbon Dimension as per	TEC ER No. TEC70022110
				TEC ER No. TEC70022110
				TEC ER No. TEC70022110
				TEC ER No. TEC70022110
		from ribbon as per IEC 60794-1-23, IEC 60794-3 Ribbon Compression Resista per	Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 135 of 152

Validity: 30/08/2022 to 29/08/2025

Sl. Telecom

Last Amended on:

Standard/

No.	Equipment/ Product			Specification
	Optical Fibre Cable	Variant-12: Optical Fibre	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Cable- Outdoor	Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
			Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
	H		Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
			Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110
			Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 136 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-12: Optical Fibre Cable-	Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
	(i) : (ii) (iii)	Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
£::		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 137 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

Sl. No.	Telecom Equipment/ Product	Test Paramete	r or Type of Testing	Standard/ Specification
	Optical Fibre	Variant-12:	Fibre Macro bend loss as per ITU-T	TEC ER No.

Optical Fibre	Variant-12:	Fibre Macro bend loss as per ITU-T	TEC ER No.
Cable	Optical Fibre	G.65x ,ITU-T G.650.1, IEC 60793-	TEC70022110
	Cable-	2-50 and IEC 60793-1-47:	
	Outdoor	(i) Change in attenuation when fibre is coiled with 100 turns on 60 ±1.0 mm diameter mandrel (ii) Change in attenuation when fibre is coiled with 1 turn around 32 ± 0.5 mm diameter mandrel (iii) Change in attenuation when fibre is coiled with 100 turns on 50 ±0.5 mm diameter mandrel (iv) Change in attenuation when fibre is coiled with 10 turns on 15 mm radius mandrel	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 138 of 152

SI.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/	965	Specification
	Product		

Optical Fibre Cable	Variant-12: Optical Fibre Cable- Outdoor	 (v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel. 	TEC ER No. TEC70022110
		Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom

No. Equipment/

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 139 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-13: Optical Fibre Cable- Riser	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
		PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
		Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
		Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022110
		Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
		Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Kink Test as per IEC C 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 140 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

SI.	Telecom	Test Parameter or Type of Testing	Standard/
No.	Equipment/		Specification
	Product		

Optical Fibre Cable	Variant-13: Optical Fibre	Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	Cable- Riser	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Torsion Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Abrasion Resistance Test as per IEC 60794-1-21	TEC ER No. TEC70022110
		Temperature Cycling as per IEC 60794-1-22	TEC ER No. TEC70022110
		Cable Aging test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Check of the effect of aggression media on the cable as per ISO 175	TEC ER No. TEC70022110
		Cable Material Compatibility as per Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Standard/

Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 141 of 152

Test Parameter or Type of Testing

Validity: 30/08/2022 to 29/08/2025 Last Amended on: ____

Equipment/ Product	1 cst 1 arameter	or Type or Testing	Specification
Optical Fibre Cable	Variant-13: Optical Fibre	Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
	Cable- Riser	Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
138		Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
		Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 142 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

	Product			Specification
	Optical Fibre Cable Variant-13: Optical Fibre Cable- Riser	Optical Fibre	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110	
		Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110	
			Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
			Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
			Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
		Core Clad Concentricity error IEC 60793-1-20	TEC ER No. TEC70022110	

Director (CA), TEC

AD'(CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 143 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	Variant-13: Optical Fibre	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
	Cable- Riser	Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110 TEC ER No. TEC70022110
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 144 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

Optical Fibre	Variant-13:	Fibre Macro bend loss as per ITU-T	TEC ER No.
Cable	Optical Fibre	G.65x ,ITU-T G.650.1, IEC 60793-	TEC7002211
	Cable- Riser	2-50 and IEC 60793-1-47:	
		(i) Change in attenuation when fibre	
		is coiled with 100 turns on 60 ±1.0	
		mm diameter mandrel	
		(ii) Change in attenuation when fibre	
		is coiled with 1 turn around 32 ± 0.5	
		mm diameter mandrel	
		(iii) Change in attenuation when	
		fibre is coiled with 100 turns on 50	
		±0.5 mm diameter mandrel	
		(iv) Change in attenuation when fibre	
		is coiled with 10 turns on 15 mm	
		radius mandrel	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 145 of 152

Telecom Equipment/	Test Parameter or Type of Testing	Standard/ Specification
Product		

Optical Fibre Cable	Variant-13: Optical Fibre Cable- Riser	(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm radius mandrel (vi) Change in attenuation when fibre is coiled with 1 turn on 7.5 mm radius mandrel (vii) Change in attenuation when	TEC ER No. TEC70022110
		fibre is coiled with 1 turn on 5 mm radius mandrel. Peak Stripability force to remove Primary coating of the fiber (Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	TEC ER No. TEC70022110
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110
		Flame Spread-Single cable as per IEC/EN 60332-1-2	TEC ER No. TEC70022110

irector (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 146 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Last Amended on: ___

Standard/

Specification

Product			
Optical Fibre Cable	Variant-14: Optical Ground Wire - OPGW	Attenuation as per IEC-60793-1-40 (i) at 1310nm (ii) at 1383nm (iii) at 1490 nm (iv) at 1550nm (v) at 1625nm	TEC ER No. TEC70022110
		PMD as per IEC 60793-1-48 (a) Cabled Loose Fibre (b) Cabled Ribbon Fibre	TEC ER No. TEC70022110
		Cable Cut-off wavelength as per IEC 60793-1-44	TEC ER No. TEC70022110
		Tensile Strength as per IEC 60793-1-21	TEC ER No. TEC70022110
		Crush Resistance as per IEC 60793-1-21	TEC ER No. TEC70022110
		Impact Test as per IEC 60793-1-21	TEC ER No. TEC70022110
		Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa-396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 147 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

Sl. Telecom No. Equipment/ Product Test Parameter or Type of Testing	Standard/ Specification
---	----------------------------

Optical Fibre Cable	Variant-14: Optical Ground Wire -	Repeated Bend Test as per IEC 60794-1-21	TEC ER No. TEC70022110
	OPGW	Cable drip Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Creep Test as per IEC 60794-4-20	TEC ER No. TEC70022110
		Sheave Test as per IEEE 1138:2009	TEC ER No. TEC70022110
		Stress Strain Test as per IEEE 1138:2009	TEC ER No. TEC70022110
		Strain Margin Test as per IEEE 1138:2009	TEC ER No. TEC70022110
		Temperature Cycling Test as per IEC 60794-1-22	TEC ER No. TEC70022110
		Water Blocking Test as per IEC 60794-1-22	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 148 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No Equipment/

Last Amended on:

Standard/

Charification

	Product			Specification
	Optical Fibre Cable	Variant-14: Optical Ground Wire - OPGW	Cable Material Compatibility Telecordia GR 20, IEC 60794- 3-11	TEC ER No. TEC70022110
			Electrical Continuity Test as per IEC 60794-1-24, IEC 60794- 3-11	TEC ER No. TEC70022110
			Kink resistance Test as per IEC 60794-1-23	TEC ER No. TEC70022110
			Drainage Test/Compound Flow as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
			Water tightness / Water Blocking test as per IEC 60794-1-22	TEC ER No. TEC70022110
			Strippability Test -Tight Buffer as per IEC 60794-3, IEC 60793-1-32, IEC 60793-1-32:2010	TEC ER No. TEC70022110
			Ribbon Dimension as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110
			Separability of individual fibres from ribbon as per IEC 60794-1-23, IEC 60794-3	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Test Parameter or Type of Testing

Telecom No. Equipment/

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 149 of 152

Validity: 30/08/2022 to 29/08/2025

Last Amended on: ___

Standard/

Specification

Product			Specification
Optical Fibre Cable	Variant-14: Optical Ground Wire -	Ribbon Compression Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
	OPGW	Ribbon Torsion Resistance as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Micro-bend as per IEC 60794-1-31, IEC 60794-3	TEC ER No. TEC70022110
		Ribbon Stripability Test as per IEC 60794-1-21, IEC 60794-3	TEC ER No. TEC70022110
		Mode Field Diameter at 1310 nm/1550 nm as per IEC60793-1-45	TEC ER No. TEC70022110
		Cladding Diameter as per IEC 60793-1-20	TEC ER No. TEC70022110
		Cladding Non-Circularity as per IEC 60793-1-20	TEC ER No. TEC70022110
		Core Clad Concentricity error as per IEC 60793-1-20	TEC ER No. TEC70022110

Director (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 150 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

SI.

Last Amended on:

Standard/

Specification

Product			
Optical Fibre Cable	PORTO NATIONAL PROPERTY OF THE	Coating diameter as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Coating /Cladding Concentricity as per IEC 60793-1-21, IEC 60793-2-50	TEC ER No. TEC70022110
		Chromatic Dispersion as per IEC 60793-1-42, IEC 60793-2-50 (i) at 1550 nm (ii) at 1625 nm (iii) In 1285-1330 nm band (iv) In 1270-1340 nm band	TEC ER No. TEC70022110
		Zero Dispersion slope as per IEC 60793-1-42	TEC ER No. TEC70022110
-		Zero Dispersion wavelength range as per IEC 60793-1-42	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83 Page 151 of 152

Validity: 30/08/2022 to 29/08/2025 Last Amended on:

Sl. Telecon No. Equipm	Standard/
Produc	Specification

Optical Fibre	Variant-14:	Fibre Macro bend loss as per ITU-T	TEC ER No.
Cable	Optical	G.65x ,ITU-T G.650.1, IEC 60793-	TEC70022110
	Ground Wire - OPGW	2-50 and IEC 60793-1-47:	
	Ordin	(i) Change in attenuation when fibre	
	HET	is coiled with 100 turns on 60 ±1.0 mm diameter mandrel	
		(ii) Change in attenuation when fibre	
		is coiled with 1 turn around 32 ± 0.5	
		mm diameter mandrel	
		(iii) Change in attenuation when	
		fibre is coiled with 100 turns on 50	
		±0.5 mm diameter mandrel	
		(iv) Change in attenuation when fibre	
		is coiled with 10 turns on 15 mm radius mandrel	

Director (CA), TEC

AD (CA), TEC



Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi - 110 001

SCOPE OF DESIGNATION (ANNEXURE)

Laboratory Name: M/s Sterlite Technologies Ltd. (OFC Quality Assurance Laboratory)

Test Parameter or Type of Testing

Survey No. 68/1, Madhuban Dham Road, Rakholi, Silvasa- 396 230,

U. T. of Dadra and Nagar Haveli

Certificate Number: TEC/MRA/CAB/IND-D/83

Page 152 of 152

Validity: 30/08/2022 to 29/08/2025

Telecom

No. Equipment/

Product

Last Amended on:

Standard/

Specification

Optical Fibre Cable	Variant-14: Optical	(v) Change in attenuation when fibre is coiled with 1 turn on 10 mm	TEC ER No. TEC70022110
Cable	Ground Wire -	radius mandrel	
	OPGW	(vi) Change in attenuation when fibre	
		is coiled with 1 turn on 7.5 mm radius mandrel	
		(vii) Change in attenuation when fibre is coiled with 1 turn on 5 mm radius mandrel.	
		Peak Stripability force to remove Primary coating of the fiber	TEC ER No. TEC70022110
		(Unaged, Water aged, Damp Heat aged) as per IEC 60793-2-50, IEC60793-1-32	
		Fiber Curl as per IEC 60793-2-50, IEC 60793-1-34	TEC ER No. TEC70022110

Director (CA), TEC

AD (CA), TEC