National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

OFC UNIT - TESTING LABORATORY, VINDHYA TELELINKS LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

PLOT NO. 1C & 1D, UDYOG VIHAR, REWA, MADHYA PRADESH, INDIA

in the field of

TESTING

Certificate Number: TC-12898

Issue Date: 13/01/2024 **Valid Until:** 12/01/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: Vindhya Telelinks Limited

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : OFC UNIT - TESTING LABORATORY, VINDHYA TELELINKS LIMITED, PLOT NO. 1C & 1D, UDYOG VIHAR, REWA, MADHYA PRADESH, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Chromatic Dispersion	IEC 60793-1-42 Method C
2	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Cladding Diameter	IEC 60793-1-20 Method B
3	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Cladding Non Circularity	IEC 60793-1-20 Method B
4	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Cladding to Coating Concentricity Error	IEC 60793-1-21 Method A
5	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Coating Diameter	IEC 60793-1-21 Method A
6	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Coating Non Circularity	IEC 60793-1-21 Method A
7	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Cut Off Wavelength	IEC 60793-1-44 Method A & Method B
8	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Fibre Macro Bend Test - Change in Attenuation (at 1310 nm)	IEC 60793-1-47 Method A
9	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Fibre Macro Bend Test - Change in Attenuation (at 1550 nm & 1625 nm)	IEC 60793-1-47 Method A
10	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Mode Field Concentricity Error	IEC 60793-1-20 Method B

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11	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Mode Field Diameter	IEC 60793-1-45 Method A
12	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Polarization Mode Dispersion	IEC 60793-1-48 Method A
13	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Spectral Attenuation	IEC 60793-1-40 Method A
14	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Water Peak Attenuation	IEC 60793-1-40 Method A
15	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Zero Dispersion Slope	IEC 60793-1-42 Method C
16	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre	Zero Dispersion Wavelength	IEC 60793-1-42 Method C
17	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Abrasion Test	IEC 60794-1-21 Method E2A & E2B, Amd 1
18	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Aeolian Vibration Test - Change in Attenuation (1310 nm & 1550 nm)	IEC 60794-1-2 Method E19
19	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Aeolian Vibration Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEEE 1222 (Clause No. 6.5.3.1)
20	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Attenuation Measurement	IEC 60793-1-40 Method C
21	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Cable Ageing Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-22 Method F9

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22	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Cable Bend Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 Method E11A, Amd 1
23	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Cable Drip Test	ANSI/TIA/EIA-455-81B (FOTP 81)
24	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Cable External Freezing Test - Change in attenuation (at 1310 nm & 1550 nm)	ANSI/TIA/EIA-455-98 A (FOTP 98)
25	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Cable Jacket Yield Strength & Ultimate Elongation	ANSI/TIA/EIA-455-89B (FOTP 89)
26	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Cable Jacket Yield Strength & Ultimate Elongation	ASTM D638
27	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Cable Shrinkage Test	IS 10810 (Part 12)
28	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Cable UV Resistance Test	ASTM G155
29	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Carbon Black Content of Polyethylene & Antitracking Polyethylene Compounds	ASTM E1131
30	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Carbon Black Dispersion of Polyethylene & Antitracking Polyethylene compounds	ISO 18553, Amd 1
31	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Check of Easy Removal of Sheath	VTL WI (QCD-W-109) Issue No. 01 Issue Date: 01.12.2022
32	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Check of Effect of Aggressive Media on The Cable (Acidic & Alkaline Behavior)	TEC 85190

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33	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Corrugation Height & Pitch Measurement of Armoured Cable	IS 277 (Clause 14.1.2, Figure 1)
34	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Creep Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 61395
35	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Crush Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 Method E3, Amd 1
36	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Density of Thixotropic Jelly & Flooding Jelly	VTL WI (LAB-W-104) Issue No. 01 Issue date: 01.12.2022
37	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Density of Polyethylene Compounds	BS 2782 (Part 6) Method 620A-620D
38	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Dimension Measurement of Cable & Cable Element	IS 10810 (Part 6), IS 10810 (Part 34), IS 10810 (Part 36)
39	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Dimension Measurement of Cable & Cable Element	IS 10810 (Part 6), IS 10810 (Part 34), IS 10810 (Part 36)
40	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Drainage Test of Loose Tube	TEC 85190 (Clause 4.22)
41	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Embrittlement Test of Loose Tube	TEC 85190 (Clause 4.21a)
42	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Environmental Stress Cracking Resistance Test	ASTM D1693
43	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Environmental Stress Cracking Resistance Test	IS 10810 (Part 29)

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44	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Fibre Macro Bend Test - Change in Attenuation (at 1310nm)	ANSI/TIA-455-62C
45	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Fibre Macro Bend Test - Change in Attenuation (at 1310nm)	IEC 60793-1-47 (Clause No. 4.1 & 5.1) Method A
46	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Fibre Macro Bend Test - Change in Attenuation (at 1550nm & 1625nm)	ANSI/TIA-455-62C
47	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Fibre Macro Bend Test - Change in Attenuation (at 1550nm & 1625nm)	IEC 60793-1-47 (Clause No. 4.1 & 5.1) Method A
48	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Flame Retardant Test on Finished Cable	IS 10810 (Part 53)
49	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Flexing Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 Method E8, Amd 1
50	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Flexural Rigidity Test - Change in Attenuation (at 1310 nm & 1550 nm)	ASTM D790
51	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Galloping Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEEE 1222 (Clause No. 6.5.3.2)
52	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	High Temperature Endurance Test - Change in Attenuation (at 1310 nm & 1550 nm)	VTL WI (QCD-W-112) Issue No. 01 Issue date: 01.12.2022
53	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Impact Test - Change in Attenuation (at 1310nm & 1550nm)	IEC 60794-1-21 Method E4, Amd 1
54	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Kink Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 Method E10, Amd 1

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55	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Kink Test of Loose Tube	TEC 85190 (Clause 4.21b)
56	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Low & High Temperature Cable Bend Test - Change in Attenuation (at 1310 nm & 1550 nm)	ANSI/TIA-455-37A (FOTP 37)
57	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Melt Flow Index (at 190°C with Load of 2.16Kg of Polyethylene & Antitracking Polyethylene Compounds)	DIN EN ISO 1133-1
58	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Number & Colour Identification of Fibre per Unit/Tube/Cable	VTL WI (QCD-W-115) Issue No. 01 Issue date: 01.12.2022
59	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Optical Length	IEC-60793-1-22
60	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Oxidative Induction Time of Polyethylene & Antitracking Polyethylene Compounds	ASTM D3895
61	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Poly Ethelyn Peeling/Jacket Bonding Test of Armoured Cable	ASTM D4565
62	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Print Removal Test	GR-409 (Section 6 Issue No. 2)
63	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Repeated Bending Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 Method E6, Amd 1
64	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Ripcord Functional Test (Ripping Test)	IEC 60794-1-21 Method E25, Amd 1
65	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Sheath to Ground Dielectric Strength Test (Spark Test)	VTL WI (QCD-W-107) Issue No. 01 Issue date: 01.12.2022

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66	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Sheave Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 of Method E18B, Amd 1
67	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Sheave Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEEE 1222 (Clause No. 6.5.2.1)
68	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Snatch Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 Method E9, Amd 1
69	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Static Bend Test - Change in Attenuation (at 1310 nm & 1550 nm)	ASTM D790
70	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Stripability Test	IEC 60793-1-32
71	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Temperature Cycling Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-22 Method F1
72	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Tensile Strength (at Break of FRP Rod)	ASTM D3916
73	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Tensile Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 Method E1, Amd 1
74	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Tensile Test (Fibre Strain Measurement)	IEC 60794-1-21 Method E1, Amd 1
75	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Test of Figure-8 (Eight) on Cable	VTL WI (QCD-W-108) Issue No. 01 Issue date: 01.12.2022
76	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Torsion Test - Change in Attenuation (at 1310 nm & 1550 nm)	IEC 60794-1-21 Method E7, Amd 1

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77	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Tracking & Erosion Test	ASTM D2303 Edition e1
78	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Water Absorption (After 24 Hour of FRP Rod)	ASTM D570
79	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Water Penetration Test	IEC 60794-1-22 Method F5
80	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Cables	Weight of Cable & Cable Element	VTL WI (QCD-W-113) Issue No. 01 Issue date: 01.12.2022
81	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Fibre Ribbon Compression Test & Change in Attenuation (at 1310 nm & 1550 nm)	VTL WI (QCD-W-91) Issue No. 01 Issue date: 01.12.2022
82	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Fibre Ribbon Macro Bend Test - Change in Attenuation (at 1310 nm & 1550 nm)	VTL WI (QCD-W-110) Issue No. 01 Issue date: 01.12.2022
83	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Fibre Ribbon Separation Test	IEC 60794-1-31 (Clause No. 4.4.2)
84	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Fibre Ribbon Stripability Test	GR-20 Issue 4 (Clause No. 5.3.3)
85	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Fibre Ribbon Torsion Test - Change in Attenuation (at 1310 nm & 1550 nm)	VTL WI (QCD-W-90) Issue No. 01 Issue date: 01.12.2022
86	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Ribbon Extreme Fibre	IEC 60794-1-23 Method 1 of Method G2
87	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Ribbon Height	IEC 60794-1-23, Method 1 of Method G2

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88	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Ribbon Planarity	IEC 60794-1-23, Method 1 of Method G2
89	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Ribbon Residual Twist Test (Ribbon Flatness Test)	ANSI/TIA/EIA-455-131 (FOTP-131)
90	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Ribbon Residual Twist Test (Ribbon Flatness Test)	IEC 60794-1-308
91	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Ribbon Resistance to Twist Test (Ribbon Robustness Test)	ANSI/TIA/EIA-455-141 (FOTP-141)
92	ELECTRONICS-TELECOMMUNICATION EQUIPMENT (FOR TEC CAB DESIGNATION)	Optical Fibre Ribbon	Ribbon Width	IEC 60794-1-23 Method 1 of Method G2