STERLITE TECHNOLOGIES LTD –OFC QUALITY ASSURANCE LABAROTORY

TESTING CHARGES

(Rev .2 Date 28.09.2023)

S. No	Product/Material of test	Specific Test Performed	Test method	Test Charge Inr	Remark
1	OPTICAL FIBER CABLES	Attenuation @ 1310, 1383, 1490, 1550 & 1625 nm	ITU-T G.65x, G.650.1 and IEC 60793-2-50: 2014, IEC 60794-5-10,IEEE 1222-2003,IEEE 1138: 2009GR 20 issue 4 July 2013,IEC 60793-1-40 Method C: 2001	20000	For F >96 , additional charge of 150 per F
2	OPTICAL FIBER CABLES	Optical Length	GR 20 issue 4 July 2013,IEEE 1222-2003,IEEE 1138: 2009, IEC 60793-1-40 Method C: 2001		
3	Optical Fiber Cable, Optical Fiber	Point Discontinuities - Change in Transmittance	Telecordia GR 20 : 2013	20000	For F >96 , additional charge of 150 per F
4	Optical Fiber	Spectral Attenuation	IEC 60793-1-40: 2019	20000	For F >96 , additional charge of 150 per F
5	OPTICAL FIBER	Cut off Wavelength	IEC 60793-1-44: 2011	20000	For F >96 , additional charge of 150 per F
6	Optical Fiber	Cabled SMF Cut-off Wavelength	IEC 60793-1-44: 2011, ITU-T G.65x, G.650.1 and IEC 60793-2-50: 2018, FOTP 170: 1989	20000	For F >96 , additional charge of 150 per F
7	Optical Fiber	Mode Field diameter of SM fibres at 1310nm & 1550 nm	IEC60793-1-45 Method B: 2017	20000	For F >96 , additional charge of 150 per F
8	OPTICAL FIBER (core/clad diameters of Multimode & Single Mode fibers)	Clad Diameter	IEC 60793-1-20 Method B: 2014	20000	For F >96 , additional charge of 150 per F
9	OPTICAL FIBER (core/clad diameters of Multimode &	Clad Non-circularity	IEC 60793-1-20 Method B: 2014		

	SingleMode fibers)				
10	Optical Fiber, Optical Fiber Cable	Core-clad Concentricity Error	IEC 60793-2-50: 2018, 60793-1-20: 2014		
11	Optical Fiber	Fiber Coating measurement	IEC 60793-1-21: 2001,IEC 60793-2-50: 2018		
12	Optical Fiber, Optical Fiber Cable	Coating Cladding Concentricity	IEC 60793-2-50: 2018, 60793-1-21, : 2001	20000	For F >96 , additional charge of 150 per F
13	Optical Fiber, Optical Fiber Cable	Coating Non-circularity	IEC 60793-2-50: 2018, 60793-1-21, : 2001		
14	OPTICAL FIBER	Slope at Zero dispersion	IEC 60793-1-42 Method B: 2013		
15	OPTICAL FIBER	Zero Dispersion Wavelength	IEC 60793-1-42 Method B: 2013		
16	Optical Fiber	CD coefficient @1270 - 1340 nm band	ITU-T G.65x, G.650.1 and IEC 60793-2-50: 2018, 60793-1-42: 2013	20000	For F >96 , additional charge of 150 per F
17	Optical Fiber	CD coefficient @1285 - 1330 nm band	ITU-T G.65x, G.650.1 and IEC 60793-2-50: 2018, 60793-1-42: 2013		
18	Optical Fiber, Optical Fiber Cable	CD coefficient @ 1550 & 1625	ITU-T G.65x, G.650.1 and IEC 60793-2-50: 2018, 60793-1-42: 2013		
19	Optical Fiber, Optical Fiber Cable	PMD @1310 & 1550 nm	IEC 60793-1-48: 2017, ITU-T G.65x, G.650.1 and IEC 60793-2-50: 2018	20000	For F >96 , additional charge of 150 per F
20	Optical Fiber	Fiber Curl measurement	IEC 60793-2-50; 2018, IEC 60793-1-34: 2021	20000	For F >96 , additional charge of 150 per F
21	Optical Fiber, Optical Fiber Cable	Fiber Stripability (Peak Stripability Force)	FOTP -178, GR 20: 2013,IEC 60793-2-50: 2018, IEC 60793-1-32: 2018	20000	For F >96 , additional charge of 150 per F
22	Optical Fiber	Fiber Fusibility /Fiber Spilce Loss)	GR20: 2017	20000	For F >96 , additional charge of 150 per F
23	Optical Fiber	Fiber Macro Bending	IEC 60793-2-50: 2018, ITU-T G.657. A & G.657.B, G.650.1, G.65x,G.652.D, IEC 60793-1-47: 2017	20000	For F >96 , additional charge of 150 per F
24	Optical Fiber	Water immersion test	BSNL GR: 2017	44000	For F >96 , additional charge of 150 per F

25	Optical Fiber (Coloured)	MEK Rub Test	BSNL GR, Draft IEC 60794-1-219: 2021	6000	For F >96 , additional charge of 150 per F
26	OPTICAL FIBER CABLES	Tensile Test - Change in Transmittance	IEEE 1222-2003,IEEE 1138: 2009,IEC 60794-1-21:2014, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov: : 2019	20000	For F >96 , additional charge of 150 per F
27	Optical Fiber Cable	Tensile Test - Fiber Strain	IEEE 1222-2003,IEEE 1138: 2009,IEC 60794-1-21:2014, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov: 2019		
28	Optical Fiber Cable	Abrasion test - Change in Transmittance	IEEE 1222-2003,IEEE 1138: 2009, IEC 60794-1-21:2014, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov: 2019	20000	For F >96 , additional charge of 150 per F
29	OPTICAL FIBER CABLES	Crush Test - Change in Transmittance	IEEE 1222-2003, IEC 60794-1-21:2014, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov : 2019	20000	For F >96 , additional charge of 150 per F
30	Optical Fiber Cable	Bend test / Static bend test - Change in Transmittance	IEC 60794-3-10:2015, IEC 60794-1-21:2015, IEC 60794-5-10:2014, IEEE 1222-2003,IEEE 1138: : 2009	20000	For F >96 , additional charge of 150 per F
31	OPTICAL FIBER CABLES	Impact Test - Change in Transmittance	IEEE 1222-2003,IEEE 1138: 2009, IEC 60794-1-21:2014, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov: : 2015	20000	For F >96 , additional charge of 150 per F
32	OPTICAL FIBER CABLES	Torsion Test - Change in Transmittance	IEEE 1222-2003,IEEE 1138: 2009, IEC 60794-1-21:2014, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov: 2019: 2019	20000	For F >96 , additional charge of 150 per F
33	Optical Fiber Cable	Cable Kink test - Change in Transmittance	IEC 60794-1-21:2015, IEC 60794-3-10:2015, IEC 60794-3-11:2010, IEEE 1222-2003,IEEE 1138: : 2009	20000	For F >96 , additional charge of 150 per F
34	OPTICAL FIBER CABLES	Repeated Bend Test - Change in Transmittance	IEEE 1222-2003,IEEE 1138: 2009, IEC 60794-1-21:2014, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov : : 2019	20000	For F >96 , additional charge of 150 per F
35	Optical Fiber Cable	Snatch Test - Change in Transmittance	IEC 60794-1-2-E9 : 2021, GR/OFC-03/03 JUN : 2005	20000	For F >96 , additional charge of 150 per F
36	Optical Fiber Cable	Flexural rigidity test (Three-point bend)- Change in Transmittance	IEC FDIS 60794-1-21 © IEC 2014,TEC-GR-TX-OFC-022-02-MAR-17 Clause no. 4.16, ASTM D 790: 2017	20000	For F >96 , additional charge of 150 per F
37	Optical Fiber Cable	Water penetration test	IEC 60794-1-22 Edition 2.0 2017-10 , GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov: 2019	20000	

38	Optical Fiber Cable	Compound flow (drip)	IEC 60794-1-22Edition 2.0 2017-10, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov : 2009	8000	
39	Optical Fiber Cable	Bending stiffness	IEC 60794-1-21, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov: 2019	20000	For F >96 , additional charge of 150 per F
40	OPTICAL FIBER CABLES	Aeolin Vibration Test - Change in Transmittance	IEC 60794-1-2, Method E19 (2015)IEEE 1222-2003,IEEE 1138:: 2009	80000	For F >96 , additional charge of 150 per F
41	OPTICAL FIBER CABLES	Galloping Test - Change in Transmittance	IEC 60794-1-2, Method E26 (2015)IEEE 1222-2003,IEEE 1138: : 2009	80000	For F >96 , additional charge of 150 per F
42	Optical Fiber Cable	Sheave Test - Change in Transmittance	IEEE 1222-2003,IEEE 1138: 2009, IEC 60794-1-21: 2015, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov: 2019	20000	For F >96 , additional charge of 150 per F
43	Optical Fiber Cable	Creep Behaviour - Cable Strain/Eongation	IEC 60794-1-21:2015/AMD1 2019, IEEE 1222-2003,IEEE 1138:: 2009	80000	For F >96 , additional charge of 150 per F
44	Optical Fiber Cable	Creep behaviour - Change in Transmittance	IEC 60794-1-21:2015 IEEE 1222-2003,IEEE 1138: 2009		
45	Plastics & Cables	UV Resistance Test	IEC 60794-1-22 Method F14, ISO 4892-2:2013,ASTM G-154: 2016	130000	Above 2000 Hrs test , Additional charge of Rs 65 per hour
46	OPTICAL FIBER CABLES	Temperature Cycle Test - Change in Transmittance	IEEE 1222-2003, GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov 2019.IEC 60794-1-22, Method F1: 2017	100000	For F >96 , additional charge of 150 per F
47	Optical Fiber Cable	Cable Ageing test - Change in Transmittance	IEEE 1222-2003,IEEE 1138: 2009, IEC 60794-1-22Edition 2.0 2017-10 , GR 20 issue 4 July 2013, XP C 93-850-3-25 Nov : 2019	108000	For F >96 , additional charge of 150 per F
48	Optical Fiber Cable	Cable Material Compatibility Test	Telecordia GR 20: 2013, IEC 60794-3-1: 2013. FOTP 178, ICEA 640: 2016	100000	For F >96 , additional charge of 150 per F
49	Optical Fiber Cable	Low and High Temperature Cable Bend - Change in Transmittance	Telcordia GR 20 : 2013	80000	For F >96 , additional charge of 150 per F
50	Optical Fiber Cable	Cable external freezing - Change in Transmittance	IEC 60794-1-22Edition 2.0 2017-10 , GR 20 issue 4 July : 2013	80000	For F >96 , additional charge of 150 per F

51	Optical Fiber Cable	Thaw / Cable Internal Freezing test - Change in Transmittance	IEC 60794-1-22 Edition 2.0 2017-10, GR 20 issue 4 July: 2013	80000	For F >96 , additional charge of 150 per F
52	Optical Fiber	Mid-span temperature cycling test for exposed buffer tubes(pedestal) - Change in Transmittance	GR 20 section 6.5.11: 2013, FOTP 244, IEC 60794-1-22 F18: 2017	80000	For F >96 , additional charge of 150 per F
53	Optical Fiber	Straight midspan access to optical elements - Change in Transmittance	IEC 60794-1-21 Method E29, 2015 AMD 1@2019, GR 20 issue 4 July : 2013	20000	For F >96 , additional charge of 150 per F
54	Optical Fiber Cable	Aggressive Media	ICEA 640: 2016, ISO 175: 2010	20000	
55	Optical Fiber Cable	Jacket Yield Strength	ICEA 640: 2016 & GR20: 2013	10000	
56	Optical Fiber Cable	Ultimate Elongation	ICEA 640 & GR20: 2013		
57	Optical Fiber Cable	Cable Construction	Sterlite WI: 2020	7000	
58	Plastics, Optical fiber Cable	Tracking & Erosion Test	IEC60794-4-20, ASTM D 2303: 2020	50000	
59	Optical Fibre Cable	Electrical Continuity	IEC 60794-1-24: 2014 , IEC 60794-3-11: 2010	6000	
60	Messenger Wire, Twisted metal wire	Lay length	Sterlite WI: 2020	6000	
61	Optical Fiber Cable	Cable length (% change in length) and length marking (Readable after abrasion)	GR 20 issue 4 July: 2013	20000	
62	Optical Fiber Cable	Cable shrinkage test (fibre protrusion)	IEC 60794-1-22Edition 2.0 : 2017	80000	
63	Optical Fiber Cable	Cable Termination - Change in Transmittance	Telecordia GR20: 2013	20000	
64	Optical Fiber Cable	Color permanence and marking durability	GR 20 section 6.6.6: 2013	20000	
65	Optical Fiber Cable	Cut-through resistance (Shear strength) - Change in Transmittance	XP C 93-850-3-25 Nov : 2019	20000	For F >96 , additional charge of 150 per F
66	Optical Fiber Cable	Easy Removal of Sheath	BSNL GR: 2017	8000	
67	Optical Fiber Cable	Jacket Shrink back	ICEA 640: 2016	11000	
68	Optical Fiber Cable	Multiple cable coiling and	IEC 60794-1-21 Method E 33, 2015 AMD1@2019, GR 20 issue 4 : 2013	20000	For F >96 , additional

		uncoiling performance - Change in Transmittance			charge of 150 per F
69	Optical Fiber Cable	Nos & Colour identification of Fiber per unit/tube/cable	TIA - 598: 2014	8000	
70	Optical Fiber Cable	Rated pulling tension - Change in Transmittance	GR 20 issue 4 July: 2013	20000	For F >96 , additional charge of 150 per F
71	Optical Fiber Cable	Ripcord functional test	IEEE 1222-2003, IEC 60794-1-21:2014, GR 20 issue 4 July : 2013	20000	
72	Optical Fiber Cable	Test of Figure of 8 on the cable	TEC-GR-TX-OFC-022-02-MAR Clause no. 4.15: 2017	20000	
73	Optical fiber cable	Cables under fire conditions Circuit integrity	IEC 60331-1 2009 -05, IEC 60331-11 1999-04, IEC60331-12 : 1999	30000	
74	Optical Fiber Cable	Cables under fire conditions single vertical	IEC 332-1:1993, IEC/EN 60332-1-2: 2015	30000	
75	Optical Fiber Cable	High Voltage test	BT Standard CW1500-11 Issue 4: 2015	20000	
76	Optical Fiber Cable, Optical Fiber Ribbon	Ribbon Compression Resistance - Change in Transmittance	IEC 60794-1-31: 2018, IEC 60794-3: 2014	20000	For Ribbon >8 , additional charge of 2000 per Ribbon
77	Optical Fiber Cable, Optical Fiber Ribbon	Ribbon Macro-bend	BSNL GR: 2017,IEC 60794-1-31: 2014, IEC 60794-3: 2014	20000	For Ribbon >8 , additional charge of 2000 per Ribbon
78	Optical Fiber Ribbon	Ribbon Twist Robustness	Telecordia GR 20: 2013	6000	For Ribbon >8 , additional charge of 700 per Ribbon
79	Optical Fiber Ribbon	Ribbon Dimensions	GR 20: 2013, ICEA 640: 2016, FOTP-123,IEC 60794-1-23: 2019, IEC 60794-3: 2014	7000	For Ribbon >8 , additional charge of 700 per Ribbon
80	Optical Fiber Ribbon	Ribbon Separation	GR 20: 2013, ICEA 640: 2016,IEC 60794-1-23: 2019, IEC 60794-3: 2021	6000	For Ribbon >8 , additional

					charge of 700 per Ribbon
81	Optical Fiber Ribbon	Ribbon Stripability	GR 20: 2013, ICEA 640: 2016, FOTP 178, IEC 60794-1-21: 2015, IEC 60794-3: 2014	20000	For Ribbon >8 , additional charge of 2000 per Ribbon
82	Optical Fiber Ribbon, Optical Fiber Cable	Ribbon Residual Twist	Telecordia GR 20: 2013	6000	For Ribbon >8 , additional charge of 700 per Ribbon
83	Optical Fiber Ribbon, Optical Fiber Cable	Ribbon Splice loss	Telecordia GR 20: 2013	20000	For Ribbon >8 , additional charge of 2000 per Ribbon
84	Optical Fiber Ribbon, Optical Fiber Cable	Ribbon Torsion Resistance	BSNL GR: 2013,IEC 60794-1-31: 2018, IEC 60794-3: 2014	20000	For Ribbon >8 , additional charge of 2000 per Ribbon
85	Fibre Reinforced Plastic (FRP) Rod	Thermal Resistance Test	TEC/GR/TX/ORM-001/05/DEC-17: 2017	12000	
86	Fibre Reinforced Plastics (FRP) Rod	Diameter	Sterlite WI: 2021	5000	
87	Fibre Reinforced Plastics (FRP) Rod	Tensile Strength	ASTM D3916: 2008	7000	
88	Fibre Reinforced Plastics (FRP) Rod	Elongation	ASTM D3916: 2008		
89	Fibre Reinforced Plastics (FRP) Rod	Heat Stress Test	TEC/GR/TX/ORM-001/05/DEC-17: 2017	8000	
90	Fibre Reinforced Plastics (FRP) Rod	Minimum Bend Diameter	TEC/GR/TX/ORM-001/05/DEC-17: 2017	6000	
91	Plastics	Density Test	ASTM D792: 2020	6000	
92	Plastics	Tensile Strength	ASTM D638: 2014	7000	
93	Plastics	Elongation	ASTM D638: 2014		
94	Plastics	Hardness	ASTM D 2240: 2015	7000	
95	Plastics	Melt Flow Rate	ASTM D1238: 2020	7000	
96	Plastics	Melting Point	ASTM D3418: 2015	7000	

97	Plastics	Moisture Test	ASTM D817: 2012	7000	
98	Optical Fiber Cable (Armoured)	Polyethylene Peeling /Jacket Bonding Test	TRFO-13, ASTM D4565: 2020	9000	
99	Plastics, FRP	Water Absorption	ASTM D 570: 1998	8000	
100	Polyolefines (PE & PP)	Carbon black content	ASTM D1603: 2020	7000	
101	Polyolefines (PE & PP)	Environmental Stress Cracking Resistance	ASTM D1693: 2015	20000	
102	Polyolefins (PE & PP)	Carbon black dispersion	IS-7328: 2020	7000	
103	Polyolefins (PE & PP)	Oxidation Induction Time	ASTM D3895: 2019	9000	
104	Polyester Ripcord	Grams per denier (GPD)	ASTM D2256: 2010	7000	
105	Polyester Ripcord	Non Wicking Treatment	Sterlite WI: 2020	6000	
107	Ripcord, Polyester Binder, Yarns	Breaking Load	ASTM D2256/ D2256M: 2010	7000	
106	Polyester Ripcord, Polyester Binder Yarns, Plastic Yarns	Elongation	ASTM D 2256: 2010		
109	Polyfilms, Water Blocking & Plastic Tapes	Tensile & Belt Strength	ASTM D882: 2018	7000	
108	Polyfilms, Water Blocking & Plastic Tapes	Elongation	ASTM D882: 2018		
110	Water Blocking Tape	Swelling Height	TEC/GR/TX/ORM-001/05/DEC-17: 2017	6000	
111	Water Blocking Tape	Swelling Speed	TEC/GR/TX/ORM-001/05/DEC-17: 2017	6000	
112	Water Blocking Tape, Polyfilm Tape	Thickness of Tapes	Sterlite WI: 2020	6000	
113	Polyester Binder Yarn, Plastic Yarn	Shrinkage	Sterlite WI: 2020	6000	
114	Water Swellable Yarn	Absorption/Swelling Capacity	TEC/GR/TX/ORM-001/05/DEC-17: 2017	6000	
115	Water Swellable Yarn	Absorption/Swelling Speed	TEC/GR/TX/ORM-001/05/DEC-17: 2017	6000	
116	Filling & Flooding Jelly	Cone Penetration at -30 °C	ASTM D217: 2021	8000	
117	Filling & Flooding Jelly	Cone Penetration at 25°C	ASTM D217: 2021		
118	Filling & Flooding Jelly	Density	ASTM D1217: 2020	6000	

119	Filling & Flooding Jelly	Drop point	ASTM 566: 2020	8000	
120	Filling & Flooding Jelly	Flash point	ASTM D92: 2018	8000	
121	Filling & Flooding Jelly	Oil separation	FTM 791-321: 2007	7000	
122	Filling & Flooding Jelly	Volatility loss	FTM 791-321: 2007		
123	Filling Jelly	Filling Jelly Compatibility with Fiber coating, UV Ink & Tube Material	ASTM D4568: 2013	100000	
124	Filling Jelly	Oxidation Induction Time	ASTM D4565: 2020	5000	
125	Flooding Jelly	Flooding Jelly Compatibility with Tube Material & HDPE	ASTM D4568: 2013	100000	
127	Loose Tube	Tensile Test	BSNL GR: 2017	7000	
126	Loose Tube	Elongation Test	BSNL GR: 2017		
128	Loose Tube	Embrittlement Test	BSNL GR: 2017	6000	
129	Optical Fiber Cable, Buffer Tube, Loose Tube	Tube Kink Resistance	GR 20 issue 4 July 2013 & IEC 60794-1-23 Edition 1.0: 2019	11000	
130	Loose Tube & Optical fiber Cable	Drainage Test	IEC 60794-1-21, IEC 60794-3, IEC 60794-3: 2011	9000	
131	Micro Modules, Optical Fiber Cable	Damp heat behaviour	ST/CNET/5843: 1998	60000	
132	Micro Modules, Optical Fiber Cable	Dry heat behaviour	ST/CNET/5843: 1998	60000	
133	Micro Modules, Optical Fiber Cable	Solvent resistance	ST/CNET/5843: 1998	60000	
134	Optical fibre Cable, Micro Modules	Stripability of Module for Extraction of optical fibres	ST/CNET/5843: 1998	7000	
135	Optical Fiber Cable, Micro Modules	Compatibility with cable water blocking products	ST/CNET/5843: 1998	100000	
136	Optical Fiber Cable, Tight Buffer Tube	Stripability of Tight buffer	IEC 60794-3: 2014, IEC 60793-1-32: 2018, IEC 60793-1-32:2010, FOTP 178, ICEA 640 : 2016	6000	
137	Optical Fiber Cable	Dimension Measurement of Cable & Cable Elements	Sterlite WI: 2020	9000	

138	Optical Fiber Cable	Weight Analysis of Cable & Cable elements	Sterlite WI: 2020	9000	
140	Steel Wire, Metal Wire, Messenger Wire	Tensile Strength	ASTM A 370: 2020	7000	
139	Steel Wire, Metal Wire, Messenger Wire	Elongation Test	ASTM A 370: 2020		
141	Zinc coated Steel Wire	Mass of Zinc - Coating	ASTM A90 / A90M : 2021	9000	
142	Optical Fiber Cable armoured, Steel Tape	Corrugation Pitch & Height Measurement	Sterlite WI: 2020	6000	
143	Master Batch	Color loss at 100°c in water	Sterlite WI: 2020	10000	

Other Terms

1. Charges mentioned above are basic. Taxes and Logistic cost will be extra at actual
2. Additional charges are applicable as mention in remark column in following cases , if Fiber count > 96 , if No of Ribbon > 8 and if UV test require > 2000 hrs , additional Charge details mentioned in remark column
3. Payment term is 100% advance