

Testing charges for NABL/CAB accredited parameters

S. No	Product/Material of test	Specific Test Performed	Test method	Range of Testing/Limit of detection	Chagres for Upto 24F OFC	> 24F and < 48F	> 48F and < 96F	> 96F
1	OPTICAL FIBER	Cut off Wavelength	IEC 60793-1-44, FOTP 170, IEC60793-2-50	850 nm to 1625 nm	8000	11000	13000	100 / Fibre
2	OPTICAL FIBER	Slope at Zero dispersion Zero Dispersion Wavelength CD coefficient @ 1550 & 1625 CD coefficient @ 1270 - 1340 nm band CD coefficient @ 1285 - 1330 nm band	IEC 60793-2-50, IEC 60793-1-42	0.000001 ps/nm ² .km to 0.1 ps/nm ² .km	20000	25000	30000	100 / Fibre
3	OPTICAL FIBER (core/clad diameters of Multimode & SingleMode fibers)	Clad Diameter Clad Non-circularity Coating Cladding Concentricity	IEC 60793-1-20	100 µm to 300 µm	10000	15000	20000	100 / Fibre
4	OPTICAL FIBER CABLES	Aeolin Vibration Test - Change in Transmittance	IEC 60794-1-2, Method E19, IEEE 1222, IEEE 1138	1 N to 19620 N	50000	55000	60000	100 / Fibre
5	OPTICAL FIBER CABLES	Attenuation @ 1310, 1383, 1490, 1550 & 1625 nm	IEC 60793-2-50, IEC 60794-5-10, IEEE 1222, IEEE 1138, Telcordia GR 20, IEC 60793-1-40 Method C	0.01 dB/km to 10 dB/km	10000	15000	18000	100 / Fibre
6	OPTICAL FIBER CABLES	Crush Test - Change in Transmittance	IEEE 1222, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25	10 N to 19620 N	15000	17000	18500	100 / Fibre
7	OPTICAL FIBER CABLES	Galloping Test - Change in Transmittance	IEC 60794-1-21, Method E26, IEEE 1222, IEEE 1138	10 N to 19620 N	30000	35000	40000	100 / Fibre
8	OPTICAL FIBER CABLES	Impact Test - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25	1 mm to 1000 mm	10000	12000	15000	100 / Fibre
9	OPTICAL FIBER CABLES	Optical Length	IEC 60793-1-22	0.5 km to 150 km	5000	8000	10000	100 / Fibre
10	OPTICAL FIBER CABLES	Repeated Bend Test - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, GR 20, XP C 93-850-3-25	80,120,124,150,200, 250,30 mm to 400,500 mm	15000	17000	20000	100 / Fibre
11	OPTICAL FIBER CABLES	Temperature Cycle Test - Change in Transmittance	IEEE 1222, Telecor-dia GR 20, XP C 93-850-3-25, IEC 60794-1-22, Method F1	-40 deg C to 100 deg C	30000	35000	40000	100 / Fibre
12	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	10 N to 196200 N	15000	17000	18500	100 / Fibre
13	OPTICAL FIBER CABLES	Torsion Test - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25	180 deg to 360 deg	15000	17000	18500	100 / Fibre
14	Optical Fiber	Mode Field diameter of SM fibers at 1310nm & 1550 nm	IEC 60793-1-45	5 µm to 10 µm	10000	12000	15000	100 / Fibre
15	Optical Fiber	Cabled SMF Cut-off Wavelength	IEC 60793-1-44, FOTP 170, IEC60793-2-50	1000 nm to 1600 nm	8000	10000	12000	100 / Fibre
16	Optical Fiber	Fiber Coating measurement Core-clad Concentricity Error Coating Non-circularity	IEC 60793-1-21, IEC 60793-2-50	150 Micron to 260 Micron	15000	18000	20000	100 / Fibre
17	Optical Fiber	Spectral Attenuation	IEC 60793-1-40	1000 nm to 1650 nm	12000	13500	15000	100 / Fibre

18	Optical Fiber	Water immersion test	TEC 85190, IEC 60793-1-53, IEC 60793-2-50, TIA-455-74-B	0.001 dB/km to 5 dB/km	3000	3500	4000	10 / Fibre
19	Optical Fiber (Coloured)	MEK Rub Test	IEC 60794-1-219, TEC GR 89010	Qualitative :Visual Check for loss of colour	5000	8000	10000	100 / Fibre
20	Optical Fiber Cable	Cable Construction	TEC/GR/TX/OFC-20/01/MAR2011, RDSO/SPN/TC/110/2020, Telcordia GR 20, TEC 89010	Qualitative :Visual identification of cable elements & construction of cable	15000	18000	20000	100 / Fibre
21	Optical Fiber Cable	Compound flow (drip)	IEC 60794-1-22, Telcordia GR 20, XP C 93-850-3-25	0.0001 g to 5 g	5000	6000	7500	100 / Fibre
22	Optical Fiber Cable	Bend test / Static bend test - Change in Transmittance	IEC 60794-3-10, IEC 60794-1-21, IEC 60794-5-10, IEEE 1222, IEEE 1138	0 dB/Km to 0.5 dB/Km	15000	17000	18000	100 / Fibre
23	Optical Fiber Cable	Cable Ageing test - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-22, Telcordia GR 20, XP C 93-850-3-25	-70 Deg C to 100 Deg C	50000	60000	70000	100 / Fibre
24	Optical Fiber Cable	Cable external freezing - Change in Transmittance	IEC 60794-1-22, Telcordia GR 20	-70 Deg C to 100 Deg C	30000	35000	40000	100 / Fibre
25	Optical Fiber Cable	Creep behaviour - Change in Transmittance	IEC 60794-1-21, IEEE 1222, IEEE 1138	10 N to 196200 N	50000	60000	70000	100 / Fibre
26	Optical Fiber Cable	Easy Removal of Sheath	RDSO/SPN/TC/110/2020, TEC GR, TEC 85190	Qualitative :Visual Inspection for Sheath removal from cable.	3000	4000	5000	100 / Fibre
27	Optical Fiber Cable	Jacket Yield Strength	Telcordia GR20, ICEA 640	1 kgf/mm ² to 100 kgf/mm ²	5000	6000	7000	100 / Fibre
28	Optical Fiber Cable	Low and High Temperature Cable Bend - Change in Transmittance	Telcordia GR 20, TIA-455-37-A	0.001 dB/km to 0.5 dB/km	40000	50000	65000	100 / Fibre
29	Optical Fiber Cable	Sheave Test - Change in Transmittance	IEEE 1222, IEEE 1138, IEC 60794-1-21, Telcordia GR 20, XP C 93-850-3-25	0.001 dB/Km to 0.5 dB/Km	8000	12000	15000	100 / Fibre
30	Optical Fiber Cable	Tensile Test - Fiber Strain	IEEE 1222, IEEE 1138, XP C 93-850-3-25, Telcordia GR 20, IEC 60794-1-21	0.001 % to 1 %	15000	17000	18500	100 / Fibre
31	Optical Fiber Cable	Test of Figure of 8 on the cable	TEC-GR-TX-OFC-022-02 (Clause no. 4.14)	Others :Visual inspection for Figure 8 formation of cable with Change in transmittance	15000	17000	18500	100 / Fibre
32	Optical Fiber Cable	Ultimate Elongation	Telcordia GR 20, ICEA 640	1 % to 1500 %	25000	30000	35000	100 / Fibre
33	Optical Fiber Cable	Water penetration test	IEC 60794-1-22, Telcordia GR 20, XP C 93-850-3-25, ICEA 640, TIA-455-82-C	Qualitative :Visual Inspection	3000	3500	4000	100 / Fibre

34	Optical Fiber Cable (Armoured)	Polyethylene Peeling /Jacket Bonding Test	ASTM D4565, TEC GR, TEC/GR/TX/OFC-20/01/MAR-201 1, RDSO/SPN/TC/110/2020, TEC 85170, TEC 89010	1 N/cm to 200 N/cm	15000	17500	18500	100 / Fibre
35	Optical Fiber Cable, Buffer Tube, Loose Tube	Kink Resistance	Telecordia GR 20,IEC 60794-1-23	Qualitative :Visual inspection for Kink observation in Tube	8000	10000	12000	100 / Fibre
36	Optical Fiber Ribbon	Ribbon Twist Robustness	IEC 60794-1-23	Qualitative :Visual Inspection of Ribbon Matrix	5000	5500	6000	100 / Fibre
37	Optical Fiber Ribbon	Ribbon Dimensions	IEC 60794-1-23	1 Micron to 7000 Micron	5000	5500	6000	100 / Fibre
38	Optical Fiber Ribbon	Ribbon Separation	IEC 60794-1-23	Qualitative :Visual Inspection	5000	5500	6000	100 / Fibre
39	Optical Fiber Ribbon, Optical Fiber Cable	Ribbon Torsion Resistance	IEC 60794-1-31	10 degree to 180 degree	5000	5500	6000	100 / Fibre
40	Optical Fiber, Optical Fiber Cable	PMD @ 1310 & 1550 nm	IEC 60793-1-48, IEC 60793-2-50	0.001 Ps/km ^{1/2} to 0.5 Ps/km ^{1/2}	12000	13500	15000	100 / Fibre
41	Optical Fibre Cable	Electrical Continuity	IEC 60794-1-24	Qualitative :Visual Inspection for continuity test for metallic parts in cable	3000	3500	4000	100 / Fibre
42	Loose Tube & Optical fiber Cable	Drainage Test	IEC 60794-1-21, IEC 60794-3,TEC 85190	Qualitative :Visual Inspection for Jelly dropout	8000	10000	12000	100 / Fibre
43	Optical Fiber Cable	Aggressive Media	ICEA 640, ISO 175, TEC 85190	Qualitative :Visual Inspection of Cable Surface	15000	15500	16000	100 / Fibre
44	Plastics	Density Test	ASTM D792	900 kg/m ³ to 1800 kg/m ³	5000	5500	6000	100 / Fibre
45	Plastics	Elongation	ASTM D638	100 % to 1600 %	5000	5500	6000	100 / Fibre
46	Plastics	Melt Flow Rate	ASTM D1238	0.0001 g/10min to 40 g/10min	3500	4000	4500	100 / Fibre
47	Plastics	Tensile Strength	ASTM D638	1 MPa to 100 MPa	5000	5500	6000	100 / Fibre
48	Polyolefines (PE & PP)	Carbon black content	ASTM D1603	0.1 % to 70 %	3500	4000	4500	100 / Fibre
49	Polyolefines (PE & PP)	Environmental Stress Cracking Resistance	ASTM D1693	Qualitative :Visual Inspection to check crack on sample surfaces	15000	15500	16000	100 / Fibre
50	Polyolefins (PE & PP)	Carbon black dispersion	IS 7328	Qualitative :Visual Inspection	3500	4000	4500	100 / Fibre
51	Polyolefins (PE & PP)	Oxidation Induction Time	ASTM D3895	1 min to 120 min	5000	5500	6000	100/Fibre

Other Terms

1. Charges mentioned above are basic. Taxes and Logistic cost will be extra at actual