



HFCL Limited
(OFC Testing LAB)

Plot No S-9, Survey No.-26P, 62P, 88P. Electronic City, Raviryala, Maheshwaram (M), Rangareddy District- Telangana-51359 (India)

TESTING CHARGES FOR CABLE

Rev 01/20.08.2024

Sr No.	Specific Test Performed	Test method	Cat A	Cat B	Cat C	Cat D	Cat E
			Cost / Fibre	Up to 24F OFC	> 24F and ≤ 48F	> 48F and ≤ 96F	> 96F
1	Polarization Mode Dispersion Test / Polarization Mode Dispersion LDV Test	IS/IEC 60793-1-48 Method A&C IEC 60793-1-48 Method A EIA/TIA-455-113 ; IEC 60793-2-50; ITU-T G.655, ITUT G.650.1; ITU-T G.652; ITU-T G.657 GR-20-CORE Issue 4, Clause 4.3.7	5000	10000	12500	15000	Cat D + Rs 100 / Fibre
2	Abrasion resistance of optical fibre cable marking Test / Abrasion resistance of optical fibre cable sheath Test	IEC 60794-1-21, Edition 1.0, Method E2 IEC 60794-5-10, Tab. C1, C2, C3 IEC 60794-3, Table 2 IS/IEC 60794-3-10, Table A.2 IS/IEC 60794-3-11, 7.2.1 IS/IEC 60794-2, Table 4 IEC 60794-3-70 , 6.4; ITU-T Rec. L.109, 7.1; ITU-T Rec. L.110, 9.2.4	-	5000	5000	5000	5000
3	Aeolian Vibration Test (14 Days)	IEC 60794-1-21, Edition 1.0, Method E19 IEC 60794-4-20,9.8 IEEE 1222, 6.5.3.1 TEC 85190, Clause No. 4.26	-	98000	112000	126000	140000
4	Bend Test	IEC 60794-1-21, Edition 1.0, Method E11 IEC 60794-5-10, 5.8 IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.7 IS/IEC 60794-3-11, 7.5.2 IS/IEC 60794-2, Table 4 IEC 60794-3-70, 6.12; ITU-T Rec. L.109, 7.1; ITU-T Rec. L.110, :9.2.2 ITU-T Rec. L.111 6.2.1 GR-20-CORE Issue 4, Table 6-17 & 6-18	-	10000	12500	15000	Cat D + Rs 100 / Fibre

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Sr No.	Specific Test Performed	Test method	Cat A	Cat B	Cat C	Cat D	Cat E
			Cost / Fibre	Up to 24F OFC	> 24F and ≤ 48F	> 48F and ≤ 96F	> 96F
5	Cable Aging Test	IEC 60794-1-22, Edition 2.0, Method F9; IEC 60794-5-10, 5.11; IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.10; IEC 60794-3-70, 6.17; ITU-T Rec. L.109, 7.2; ITU-T Rec. L.110, 9.3.8; ITU-T Rec. L.111 : Annx A Table A.3; GR-20-CORE Issue 4, Clause 6.6.4, Table 6-17 & 6-18	-	7500/day	7500/day	7500/day	10000/day
6	Cable Bend Test at High and Low Temperature	EIA/TIA-455-37A; GR-20-CORE Issue 4, Clause 6.5.3; ANSI/ICEA S-87-640 : Clause 7.21	-	15000/day	15000/day	15000/day	20000/day
7	Cable Diameter Test	ASTM D 4565: Clause 6; GR-20- CORE Issue 4, Clause 6.4.2	-	5000	5000	5000	5000
8	Cable Freezing Test	IEC 60794-1-22, Edition 2.0, Method F15 GR-20-CORE Issue 4, Clause 6.6.5 ANSI/ICEA S-87-640: Clause 7.22 EIA/TIA-455-98A : Method A	-	15000/day	15000/day	15000/day	20000/day
9	Cable Thickness Test	ASTM D 4565 : Clause 7 GR-20-CORE Issue 4, Clause 6.4.2 ANSI/ICEA S-87-640, Clause 7.6	-	5000	5000	5000	5000
10	Check of Easy Removal of Sheath	TEC 85190, Clause: 4.23	-	5000	5000	5000	5000
11	Check of the effect of aggressive media on the cable	TEC 85190, Clause 4.24	-	7500	7500	7500	7500

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Sr No.	Specific Test Performed	Test method	Cat A	Cat B	Cat C	Cat D	Cat E
			Cost / Fibre	Up to 24F OFC	> 24F and ≤ 48F	> 48F and ≤ 96F	> 96F
12	Compound Flow Test / Drip Test / Water-Blocking Material Flow	IEC 60794-1-22, Edition 2.0, Method F16 IEC 60794-5-10 :Tab. C1; IEC 60794-3 IS/IEC 60794-3-10, Table A.2 IS/IEC 60794-3-11, 7.3.2 IS/IEC 60794-2, Table 3 ITU-T Rec. L.109, 7.2 GR-20-CORE Issue 4, Clause 6.3.2 ANSI/ICEA S-87-640: Clause 7.23 EIA/TIA-455- 81B	-	5000	5000	5000	5000
13	Creep Test	IEC 60794-1-21, Edition 1.0, Method E32 IEC 61395 IEC 60794-4-20, 9.14 TEC 85190, Clause No. 4.29	-	252000	294000	336000	378000
14	Crush Test	IEC 60794-1-21, Edition 1.0, Method E3 IEC 60794-5-10, 5.3; IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.3; IS/IEC 60794-3-11, 7.5.4 IS/IEC 60794-2, Table 4 IEC 60794-3-70, 6.5; ITU-T Rec. L.109, 7.1; ITU-T Rec. L.110, 9.2.3; ITU-T Rec. L.111 6.2.4 GR-20-CORE Issue 4, Clause 6.5.5, Table 6-17 & 6-18; ANSI/ICEA S-87-640: Clause 7.31 EIA/TIA-455- 41A	-	10000	12500	15000	Cat D + Rs 100 / Fibre
15	Drainage Test	TEC 85190 Clause: 4.22	-	5000	5000	5000	5000
16	Electrical Continuity Test	IEC 60794-1-403; IS/IEC 60794-3-11, Clause 7.7	-	4000	4000	4000	4000

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Sr No.	Specific Test Performed	Test method	Cat A	Cat B	Cat C	Cat D	Cat E
			Cost / Fibre	Up to 24F OFC	> 24F and ≤ 48F	> 48F and ≤ 96F	> 96F
17	Embrittlement Test of Loose Tube	TEC 85190, Clause: 4.21 (a)	-	5000	5000	5000	5000
18	Flexural Rigidity Test on the optical fibre cable	TEC 85190, Clause: 4.15	-	5000	5000	5000	5000
19	Galloping Test	IEC 60794-1-21, Edition 1.0, Method E26 IS/IEC 60794-4-20, 9.9 IEEE 1222,6.5.3.2 TEC 85190 : Clause No. 4.27	-	20000	20000	20000	20000
20	Impact Test	IEC 60794-1-21, Edition 1.0, Method E4 IEC 60794-5-10, 5.4 IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.4; IS/IEC 60794-3-11, 7.5.3 IS/IEC 60794-2, Table 4; IEC 60794-3-70 , 6.6; ITU-T Rec. L.109,7.1; ITU-T Rec. L.110, 9.2.6; ITU-T Rec. L.111, 6.2.5; GR-20-CORE Issue 4, Clause 6.5.4 & Table 6-17 ANSI/ICEA S-87-640: Clause 7.29 EIA/TIA-455- 25D	-	10000	12500	15000	Cat D + Rs 100 / Fibre
21	Kink Resistance Test for Loose Tube / Buffer Tube Kink Test	IEC 60794-1-23, Method G7 IS/IEC 60794-3-11, 6.2.2; IEC 60794-3; GR-20-CORE Issue 4, Clause 6.5.12 ANSI/ICEA S-87-640: Clause 7.37	-	2500 / tube	2500 / tube	2500 / tube	2500 / tube
22	Kink Test	IEC 60794-1-21, Edition 1.0, Method E10; IEC 60794-5-10,5.7; IEC 60794-3, Table 2; IS/IEC 60794-2, Table 4;	-	5000	5000	5000	5000

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Sr No.	Specific Test Performed	Test method	Cat A	Cat B	Cat C	Cat D	Cat E
			Cost / Fibre	Up to 24F OFC	> 24F and ≤ 48F	> 48F and ≤ 96F	> 96F
		IEC 60794-3-70, 6.11; ITU-T Rec. L.109, 7.1; ITU-T Rec. L.110, 9.2.7; ITU-T Rec. L.111 6.2.6; GR-20-CORE Issue 4, Table 6-17 & 6-18					
23	Mid-Span Temperature Cycling Test for exposed buffer tubes	IEC 60794-1-22, Edition 2.0, Method F18 GR-20-CORE Issue 4, Clause 6.5.11 EIA/TIA-455-244	15000/day	15000/day	15000/day	15000/day	20000/day
24	Repeated Bend Test	IEC 60794-1-21, Edition 1.0 Method E6; IEC 60794-5-10 5.5; IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.5 IS/IEC 60794-3-11, 7.5.7 IS/IEC 60794-2, Table 4 IEC 60794-3-70, 6.8; ITU-T Rec. L.109, 7.1; ITU-T Rec. L.110, 9.2.8; ITU-T Rec. L.111, 3.7 GR-20-CORE Issue 4, Table 6-17 & 6-18	-	10000	12500	15000	Cat D + Rs 100 / Fibre
25	Rip Cord Functional Test	IEC 60794-1-21 Method E25 GR-20-CORE Issue 4, Clause 6.1.9 ANSI/ICEA S-87-640, Clause 7.18	-	5000	5000	5000	5000
26	Sheave Test	IEC 60794-1-21, Edition 1.0, Method E18B IEC 60794-4-20, 9.3 IEEE 1222, 6.5.2.1 TEC 85190, Clause No. 4.28	-	5000	5000	5000	7500
27	Static Bend Test	TEC 85190, Clause: 4.16	-	5000	5000	5000	7500
28	Temperature Cycle Test	IEC 60794-1-22, Edition 2.0 Method F1 IEC 60794-5-10 5.9 IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.8 IS/IEC 60794-3-11,7.6.1 IS/IEC 60794-2, Table 4	15000/day	15000/day	15000/day	15000/day	20000/day

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Sr No.	Specific Test Performed	Test method	Cat A	Cat B	Cat C	Cat D	Cat E
			Cost / Fibre	Up to 24F OFC	> 24F and ≤ 48F	> 48F and ≤ 96F	> 96F
		IEC 60794-3-70, 6.15; ITU-T Rec. L.109, 7.2; ITU-T Rec. L.110, 9.3.1; ITU-T Rec. L.111 6.3.1; GR-20-CORE Issue 4 Clause 6.6.3, Table 6-17&6 18 ANSI/ICEA S-87-640: Clause 7.24; EIA/TIA-455-3B					
29	Tensile Strength Test	IEC 60794-1-21, Edition 1.0, Method E1 IEC 60794-5-10, 5.2; IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.2 IS/IEC 60794-3-11, 7.5.5 IS/IEC 60794-2, Table 4 IEC 60794-3-70 6.3 ITU-T Rec. L.109, 7.1; ITU-T Rec. L.110, 9.2.1; ITU-T Rec. L.111 6.2.2 GR-20-CORE Issue 4, Clause 6.5.6, Table 6-17&6-18 ANSI/ICEA S-87-640: Clause 7.30; EIA/TIA-455- 33B	-	12500	15000	17500	Cat D + Rs 100 / Fibre
30	Test of Figure of 8 (Eight) on the cable	TEC 85190, Clause: 4.14	-	10000	10000	10000	10000
31	Torsion Test	IEC 60794-1-21, Edition 1.0 Method E7; IEC 60794-5-10: 5.6 IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.6, IS/IEC 60794-3-11, 7.5.6 IS/IEC 60794-2, Table 4 IEC 60794-3-70, 6.9; ITU-T Rec. L.109, 7.1; ITU-T Rec. L.110, 9.2.5; ITU-T Rec. L.111 6.2.3; GR-20-CORE Issue 4, Clause 6.5.7 & Table 6-17 ANSI/ICEA S-87-640: Clause 7.32.2 EIA/TIA-455- 85A	-	10000	12500	15000	Cat D + Rs 100 / Fibre
32	Water Penetration Test / Water	IEC 60794-1-22, Edition 2.0. Method F5 IEC 60794-5-10, 5.10, IEC 60794-3, Table 2 IS/IEC 60794-3-10, 5.9; IS/IEC 60794-3-11, 7.6.3	-	5000	5000	5000	5000

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Sr No.	Specific Test Performed	Test method	Cat A	Cat B	Cat C	Cat D	Cat E
			Cost / Fibre	Up to 24F OFC	> 24F and ≤ 48F	> 48F and ≤ 96F	> 96F
	Tightness Test / Water Blocking Test / Water Ingress Test	IS/IEC 60794-2, Table 4, IEC 60794-3-70, 6.16 ITU-T Rec. L.109, 7.2; ITU-T Rec. L.110, 9.3.2; GR-20-CORE Issue 4, Clause 6.6.7, Table 6-17 & 16-18 ANSI/ICEA S-87-640: Clause 7.28; EIA/TIA-455- 82C					
33	Attenuation Test at 1310 nm, 1383nm, 1550 nm, 1490 nm & 1625 nm Test / Optical Length Test	IS/IEC 60793-1-40 Method C IEC 60793-2-50; ITU-T G.655 ITU-T G.650.1, Clause 6.4.2 ITU-T G.652; ITU-T G.657 GR-20-CORE Issue 4, Clause 4.3.1 & 6.8.1 IS/IEC 60793-1-22: Method B	5000	10000	12500	15000	Cat D + Rs 100 / Fibre

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