


Detailed List of Tests by Cable Configuration (Annexure-A)

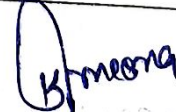
1. Valid Type test report from any NABL accredited lab for same cable size specification as mentioned in tender as per IS: 14255, or latest amendment. Following type test report should be made available in bidding process, failing which the offer may be summarily rejected.

| | | |
|---|--|--------------------------------------|
| Test of conductor | Tensile Test (For aluminium) | IS: 14255 (1995) or latest amendment |
| | Wrapping Test (For aluminium) | |
| | Resistance Test | |
| Test on Messenger conductor | Breaking load | |
| | Elongation Test | |
| | Resistance test | |
| Physical tests for XLPE Insulation | Tensile strength and elongation at break | |
| | Ageing in air oven | |
| | Hot set test | |
| | Shrinkage Test | |
| | Water absorption (Gravimetric) | |
| | Carbon Black | |
| | 1. Content | |
| | 2. Dispersion | |
| Test for thickness insulation | | |
| Insulation resistance (Volume resistivity) test | | |
| High Voltage Test | | |

2. At the time of acceptance following tests will be conducted by TPI or Railway representative or both. The In-house lab of manufacturer should be NABL accredited capable to conduct these acceptance tests. The cable to be delivered must have Following Test Report (form NABL accredited Lab).

| Specific Test Name | Relevant IS Standard |
|---|--------------------------------------|
| Tensile Test | IS: 14255 (1995) or latest amendment |
| Wrapping Test | |
| Breaking Load test for messenger conductor | |
| Elongation test for messenger conductor | |
| Conductor resistance test | |
| Test for thickness of insulation | |
| Tensile strength and elongation at break test | |
| Hot set test for XLPE insulation | |
| Insulation resistance test | |
| High voltage test | |


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