Recommendation L.4

1.Add the following paragraph to point 3:

An electric spark detect method or a voltage resistance test method with the cable submerged in water is effective if a test on the protective cover is necessary in the manufacturing process. In the process of installation and operation, if the factors that might cause damage to the protective cover or the decreasing tendency of the protective cover insulation resistance are to be found, the test should be carried out and the faults should be eliminated.

2.Replace point 4 by the following:

The anti-corrosion of aluminium sheath should depend mainly on a high quality protective cover. However, if there is any factor serious enough to damage the protective cover, and particularly if the possible damage over the protective cover is unable to be fully recovered to its original specifications after repair, the cover should be protected with special measures such as sacrifice anode electrical chemical protection. Aluminium alloy sacrifice anode which has the advantage of a higher current capacity per unit weight, an appropriate protective potential, abundant raw material resources and ease of manufacture, if an effective measure to protect aluminium sheathed cables. Tests show that good results can be obtained if the protected aluminium sheath potential value against ground is limited within the range of -0.85 - -1.20 V (relative to $Cu/CuSO_4$ electrode).

3.Add new point 6 as follows:

If there are no special requirements in using aluminium sheaths for optical fibre cables, the same sheath material and manufacturing process may be used as for metallic conductor cables.

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