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SERIES L: CONSTRUCTION, INSTALLATION AND
PROTECTION OF CABLES AND OTHER ELEMENTS OF
OUTSIDE PLANT

Design of suspension wires, telecommunication poles and guy-lines for optical access networks

Recommendation ITU-T L.89



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Design of suspension wires, telecommunication poles and guy-lines for optical access networks

Summary

Recommendation ITU-T L.89 describes the general requirements and a design guide for suspension wires, telecommunication poles and guy-lines that support aerial cables for optical access networks. This Recommendation also describes loads applied to the infrastructures.

History

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Aerial infrastructure, guy-line, ice loading, suspension wire, suspension wire tension, telecommunication pole, vertical load, wind loading.

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Introduction

Suspension wires, telecommunication poles and guy-lines that support aerial optical fibre cables are important facilities for providing broadband services. An appropriate design is needed to maintain the reliability of these facilities and services. Moreover, they are big facilities installed at a high position, and so they should be managed in a way that ensures sufficient safety. To realize these requirements, a design is needed that carefully considers facility strength.

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