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Information technology – Generic cabling for customer premises – Part 9909: Evaluation of balanced cabling in support of 25 Gbit/s for reach greater than 30 metres

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ISO/IEC TR 11801-9909, which is a Technical Report, has been prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

The list of all currently available parts of the ISO/IEC 11801 series, under the general title *Information technology – Generic cabling for customer premises*, can be found on the IEC and ISO websites.

The text of this Technical Report is based on the following documents:

DTR	Report on voting
JTC1-SC25/2932/DTR	JTC1-SC25/2948/RVDTR

Full information on the voting for the approval of this Technical Report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

This document provides an evaluation of balanced cabling in support of 25 Gbit/s data transmission. The evaluation covers enhanced balanced cabling channel specifications, which are based on Category 8.1 and Category 8.2 balanced cabling components. The enhanced channel specifications are intended to support extended reach greater than 30 m.

The extended reach evaluation is intended to support various emerging use-cases including

- 25 Gbit/s LAN,
- extended reach high definition audio/video,
- Wi-Fi®[1] application greater than 10 Gbit/s, and
- 5G intrabuilding sites.

[1] Wi-Fi is a registered trademark of Wi-Fi Alliance. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO or IEC.

INFORMATION TECHNOLOGY – GENERIC CABLING FOR CUSTOMER PREMISES –

Part 9909: Evaluation of balanced cabling in support of 25 Gbit/s for reach greater than 30 metres

1 Scope

This part of ISO/IEC 11801, which is a Technical Report, covers evaluation and recommendations for achieving extended reach, greater than 30 m, for 25 Gbit/s applications over balanced cabling channels.

This document covers channel reference implementations, based on Category 8.1 and Category 8.2, 2 000 MHz, components.

The channel and component category specifications covered in this document are not intended to be normative.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 11801-1, *Information technology – Generic cabling for customer premises – Part 1: General requirements*