



TECHNICAL REPORT



**Information technology – Generic cabling for customer premises –
Part 9911: Guidelines for the use of balanced single pair applications within
a balanced 4-pair cabling system**



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Information technology – Generic cabling for customer premises – Part 9911: Guidelines for the use of balanced single pair applications within a balanced 4-pair cabling system

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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-SC25/3253/DTR	JTC1-SC25/3282/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.

The language used for the development of this Technical Report is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, JTC 1 Supplement, available at http://www.iec.ch/members_experts/refdocs and <http://www.iso.org/directives>.

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INTRODUCTION

The ISO/IEC 11801 series is currently being revised to cover “balanced single pair cabling systems”, which will expand the range of use for structured cabling systems. With the capability of delivering data and power, these systems are ideally suited for incorporating Internet of Things (IoT) devices into premises cabling systems. Single pair applications are increasingly important for all operators of automation networks in buildings and industrial areas. Implementing these new single pair cabling structures provides for application of device-level diagnostics and security and provides for improved system scalability. Single pair cabling is not meant to replace traditional 4-pair cabling, but to support emerging applications, such as interconnecting IoT and M2M (machine-to-machine) devices.

This document gives guidance and instructions for the use of balanced single pair cabling as specified in [ISO/IEC 11801-1:2017/AMD1:- \[1\]](#)¹ and 4-pair components specified in [ISO/IEC 11801-1:2017 \[2\]](#) together in the same balanced cabling system assuring application support in accordance with [ISO/IEC 11801-6 \[3\]](#).

¹ Under preparation. Stage at the time of publication: ISO/IEC CD 11801-1:2017/AMD1:2023