SA TS 29125:2019
(Incorporating Amendment No. 1)

STANDARDS Australia

Technical Specification

Information technology — Telecommunications cabling requirements for remote powering of terminal equipment (ISO/IEC TS 29125:2017, MOD)

SA TS 29125:2019

This Australian Technical Specification was prepared by CT-001, Communications Cabling. It was approved on behalf of the Council of Standards Australia on 3 May 2019.

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The following are represented on Committee CT-001:

Australian Chamber of Commerce and Industry
Australian Council of Trade Unions
Australian Digital and Telecommunications Industry Association
Australian Industry Group
Australian Information Industry Association
BICSI South Pacific (Australia)
Energy Networks Australia
Engineers Australia
KNX National Group
National Electrical and Communications Association
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This Technical Specification was issued in draft form for comment as DR SA TS ISO/IEC 29125:2018.

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Originated as AS/NZS ISO/IEC 29125:2012.
Revised and redesignated as SA TS 29125:2019.
Reissued incorporating Amendment No 1 (July 2021).

Preface

This Technical Specification was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CT-001, Communications Cabling, to supersede AS/NZS ISO/IEC 29125:2012, *Telecommunications cabling requirements for remote powering of data terminal equipment*.

〈A1〉*This Standard incorporates Amendment No. 1 (July 2021). The start and end of changes introduced by the Amendment are indicated in the text by tags including the amendment number 1.*〈A1〉

〈A1〉Amendment No.1 to this Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CT-001, Interconnection of Information Technology equipment.〈A1〉

The objective of this Technical Specification is to—

(a) address the support of safety extra low voltage and limited power source applications that provide remote power over balanced cabling in accordance with the reference implementations of AS/NZS ISO/IEC 11801 series standards using currents per conductor of up to 500 mA and target the support of applications that provide remote power over balanced cabling to terminal equipment;

(b) cover the transmission and electrical parameters needed to support remote power over balanced cabling;

(c) cover various installation scenarios and how these may impact the capability of balanced cabling to support remote powering; and

(d) specify design and configuration of cabling as specified in AS/NZS ISO/IEC 11801-1.

This Technical Specification includes a mathematical model to predict the behaviour of different bundle sizes, various cabling constructions, and installation conditions for different current capacities.

Safety (e.g. electrical safety and protection and fire) and electromagnetic compatibility (EMC) requirements are outside the scope of this Technical Specification, and are covered by other Standards and regulations. However, information given by this Technical Specification can be of assistance.

This Technical Specification is an adoption with national modifications, and has been reproduced from, ISO/IEC TS 29125:2017, *Information technology — Telecommunications cabling requirements for remote powering of terminal equipment* and its Amendment No. 1 (2020) which has been added at the end of the source text. The modifications are additional requirements and are set out in Appendix ZZ, which has been added after Amendment No. 1 (2020).

Appendix ZZ lists the variations to ISO/IEC TS 29125:2017 for the application of this Technical Specification in Australia.

As this document has been reproduced from an International Technical Specification, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards and Technical Specifications that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards and Technical Specifications.

The terms “normative” and “informative” are used in Technical Specifications to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Technical Specification, whereas an “informative” appendix or annex is only for information and guidance.

NOTES