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IRISH STANDARD

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33.160.40

**DOMESTIC AND SIMILAR ELECTRONIC  
EQUIPMENT INTERCONNECTION  
REQUIREMENTS: AV.LINK PART 1: GENERAL**

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Descriptors: Television systems, peritelevision devices, appliance interconnections, audiovisual materials, characteristics, electrical properties, mechanical properties, signals, inspection, measurements

English version

**Domestic and similar electronic equipment interconnection  
requirements: AV.link  
Part 1: General**

Spécification des interconnexions des  
équipements électroniques domestiques  
et à usage analogue: AV.link  
Partie 1: Généralités

Kennwerte für die Kleinsignalverbindung  
zwischen elektronischen Geräten für den  
Heimgebrauch und ähnliche  
Anwendungen: AV. link  
Teil 1: Allgemeines

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**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

### Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 203, Electronic entertainment and educational systems for household and similar use.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50157-1 on 1996-07-02.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1999-01-01

This part 1 of EN 50157 includes :

- the general standardization document structure of the AV.link chain concept,
- the way of introduction new socket and plug connectors and new cord-sets,
- the use of the logo, and
- the recommended application information and corresponding chain and device requirements.

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## Table of contents

	<b>Page</b>
Introduction .....	4
1 Scope .....	5
2 Normative references .....	6
3 Characteristics of the interconnections .....	7
4 Description of the socket and plug connector .....	7
5 Cord-sets. ....	8
6 Instructions for use of the AV.link logo .....	10
7 Application information .....	12
8 Recommended system (chain) and device requirements .....	15
9 Methods of measurement .....	18

## **Introduction**

### **Reasons for the establishment of this standard**

Customer behaviour with respect to buying Audio Video (AV) equipment is such that devices are purchased from different manufacturers, in different combinations, at different moments within a long time period.

This requires an interconnection system that is extendable and suited for the interconnection of existing types as well as new types of equipment (device).

The present interconnection system according to EN 50049-1 specifies possible point-to-point connections between two AV (Audio-Video) devices or between an AV device and the Display Unit (TV receiver or monitor).

When more than two types of equipment had to be connected, a star interconnection configuration had to be created by means of a switch-box with as many connectors as the number of devices to be connected.

The switch-box can be a separate unit or a built-in function in one of the devices of the star configuration.

In practice this switch-box is mostly part of the TV receiver.

However, to keep the cost-price of the TV receiver at an affordable level, the number of peritel connectors is restricted and not all of the extra connectors are completely wired.

This makes the existing applied star configuration conflicting with the requirement of extendability and flexibility.

To provide better means for the customer to add AV devices to an audiovisual system and to be more user-friendly with respect to the control of the system, a chain configuration with simple automatic control is specified and described in this standard.

The AV.link logo identifies the type of devices and cord-sets fulfilling this standard.

This standard is complementary to EN 50049-1.

Products complying with this standard are backwards compatible with products that comply with EN 50049-1. The compatibility with respect to the devices in accordance with EN 50049-1 is based on the use of the cord-set defined in this standard and the matching values based on the signals described in EN 50049-1. The main difference of the signals is the use of Y"/C" signals in a bi-directional way and the possibility to control the signal quality in a bi-directional way also. To overcome interconnection problems and to guarantee a minimum signal quality if more devices are interconnected, system and device requirements are recommended as well as a new cord-set and corresponding connectors.

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