



National Standards Authority of Ireland

IRISH STANDARD

**I.S. ENV 13149-5:2002**

ICS 35.240.60  
43 080 20  
45 060 01

National Standards  
Authority of Ireland  
Dublin 9

Tel: (01) 807 3800  
Tel: (01) 807 3838

**PUBLIC TRANSPORT - ROAD VEHICLE  
SCHEDULING AND CONTROL SYSTEMS -  
PART 5: CANOPEN CABLING  
SPECIFICATIONS**

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on  
September 13 2002*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2002

**Price Code G**

Údarás um Chaighdeáin Náisiúnta na hÉireann



EUROPEAN PRESTANDARD  
PRÉNORME EUROPÉENNE  
EUROPÄISCHE VORNORM

**ENV 13149-5**

May 2002

ICS 35.240.60; 43.080.20; 45.060.01

English version

**Public transport - Road vehicle scheduling and control systems -  
Part 5: CANopen cabling specifications**

This European Prestandard (ENV) was approved by CEN on 26 March 2002 as a prospective standard for provisional application.

The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPAISCHES KOMITEE FÜR NORMUNG

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

## ENV 13149-5:2002 (E)

### Contents

	page
<b>Foreword .....</b>	<b>3</b>
<b>Introduction .....</b>	<b>4</b>
<b>1 Scope .....</b>	<b>5</b>
<b>2 Normative references .....</b>	<b>5</b>
<b>3 Terms and definitions .....</b>	<b>5</b>
<b>4 Requirements .....</b>	<b>6</b>
4.1 Cabling .....	6
4.2 Devices and T-connectors .....	8
4.3 Connectors .....	9
<b>Annex A (informative) Data transmission trunk cable installation guidelines using minimum dead end feeders .....</b>	<b>13</b>
<b>Annex B (informative) Repeater calculation example .....</b>	<b>14</b>
<b>Bibliography .....</b>	<b>16</b>

## **Foreword**

This document (ENV 13149-5:2002) has been prepared by Technical Committee CEN/TC 278 "Road transport and traffic telematics", the secretariat of which is held by NEN.

The annexes A and B are informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this European Prestandard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## **ENV 13149-5:2002 (E)**

### **Introduction**

This European Prestandard is part 5 of ENV 13149, which gives rules for on-board data transmission systems.

This part 5 together with part 4 and part 6 describes a complete solution independent from part 1, part 2 and part 3.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-