

Communication cables - Part 2-20: Common design
rules and construction - General

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 50290-2-20:2016 sisaldab Euroopa standardi EN 50290-2-20:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 50290-2-20:2016 consists of the English text of the European standard EN 50290-2-20:2016.
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English Version

Communication cables - Part 2-20: Common design rules and construction - General

Câbles de communication - Partie 2-20: Règles de conception communes et construction - Généralités

Kommunikationskabel - Teil 2-20: Gemeinsame Regeln für Entwicklung und Konstruktion - Allgemeines

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European foreword

This document (EN 50290-2-20:2016) has been prepared by a joint working group of the Technical Committees CENELEC TC 46X, "Communication cables", and CENELEC TC 86A, "Optical fibres and optical fibre cables".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-07-22
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2019-07-22

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This document supersedes EN 50290-2-20:2001.

1 Scope

EN 50290-2-X contains, in its various parts, the requirements for polymeric insulating, sheathing and covering materials that are used for metallic and optical fibre cables (Table 1).

Table 1 — Materials currently used in metallic and optical fibre communication cables (informative)

Standard	Application	Materials	
		Insulation/Buffer	Sheath
EN 50288 (excluding -7)	Multi element metallic cables (data cable)	PE, PP, FEP	PVC, HFFR-LS, FEP
EN 50288-7	Multi element metallic cables (instrument, fieldbus & control cable)	PVC, PE, PP, XLPE, PA	PVC, HFFR-LS
EN 50441	Indoor telecom	PVC, PE, PP,	PVC, HFFR-LS
EN 50407	Outdoor telecom	PE, PP	PE
EN 50117	Coaxial cables	PE, PP, FEP	PVC, HFFR-LS, PE, FEP
EN 60794	Optical fibre cables	PVC, PP, PBT, TPE, PA, HFFR-LS	PVC, PE, HFFR-LS, TPE

The materials to be used for EN standardised communication cables are not, and will not be, restricted only to those defined (Table 1). New materials for cables will be described in further parts of the series. The current structure of the EN 50290-2-NN series is outlined in Annex A.

Furthermore, the use of materials described in the EN 50290-2-NN series for other cable applications outside those defined (Table 1) is not prohibited, but it is strongly recommended that expert advice be taken before such use, or before any proposal for incorporation into another standard.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50396:2005, *Non electrical test methods for low voltage energy cables*

3 Rounding rules

Cable parameters and measured results shall be reported and/or rounded using the rules outlined in EN 50396:2005, Annex B.

4 Polymer nomenclature

The common abbreviations used for polymeric materials are described in EN ISO 11469 and where appropriate have been adopted in the current series. Some additional abbreviations have been defined. The current list of polymers is outlined (Table 2).