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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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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 Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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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
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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*