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STN	**Komunikačné káble. Časť 2-33: Spoločné pravidlá na vývoj a konštrukciu. Polyetylénové izolačné zmesi na mnohopárové kovové káble na inštalovanie vo vnútorných priestoroch (dátové káble).**	**STN EN 50290-2-33** 34 7032

Communication cables - Part 2-33: Common design rules and construction - Polyethylene insulation compounds for multi element metallic cables for indoor installation (data cable)

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

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English Version

Communication cables - Part 2-33: Common design rules and construction - Polyethylene insulation compounds for multi element metallic cables for indoor installation (data cable)

Câbles de communication - Partie 2-33: Règles de conception communes et construction - Pe pour enveloppes isolantes pour des câbles métalliques multi éléments pour utilisation intérieure

Kommunikationskabel - Teil 2-33: Gemeinsame Regeln für Entwicklung und Konstruktion - Polyethylen-Isoliermischungen für mehradrige metallische Kabel zur Anwendung im Innenbereich (Datenkabel)

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Contents

European foreword

This document (EN 50290-2-33:2016) has been prepared by CLC/TC 46X “Communication 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)	2017-03-14
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EN 50290-2-33:2016 (E)

1 Scope

This Part 2-33 of EN 50290 gives specific requirements for Polyethylene (PE) compounds to be used for multi element metallic data cables for indoor application. The standard includes Low Density (LD), Medium Density (MD) and High Density (HD) Polyethylene compounds.

It is to be read in conjunction with EN 50290-2-20, the product standard EN 50288 and other applicable product standards.

Using compound and type test data as outlined in this standard, the compound supplier will have sufficient data to demonstrate compliance and warrant that the material is suitable for the specified application.

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 50289-3-17, *Communication cables - Specifications for test methods - Part 3-17: Mechanical test methods - Adhesion of dielectric and sheath*

EN 50290-2-20, *Communication cables - Part 2-20: Common design rules and construction - General*

EN 60216 (all parts), *Electrical insulating materials – Thermal endurance properties (IEC 60216)*

EN 60754-2, *Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity (IEC 60754-2)*

EN 60811-401, *Electric and optical fibre cables - Test methods for non-metallic materials - Part 401: Miscellaneous tests - Thermal ageing methods - Ageing in an air oven (IEC 60811-401)*

EN 60811-501, *Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds (IEC 60811-501)*

EN 60811-502, *Electric and optical fibre cables - Test methods for non-metallic materials - Part 502: Mechanical tests - Shrinkage test for insulations (IEC 60811-502)*

EN 60811-510, *Electric and optical fibre cables - Test methods for non-metallic materials - Part 510: Mechanical tests - Methods specific to polyethylene and polypropylene compounds - Wrapping test after thermal ageing in air (IEC 60811-510)*

EN ISO 527 (all parts), *Plastics – Determination of tensile properties (ISO 527)*

EN ISO 868, *Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness) (ISO 868:2003)*

EN ISO 1133 (all parts), *Plastics – Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics (ISO 1133)*

EN ISO 1183 (all parts), *Plastics – Methods for determining the density of non-cellular plastics (ISO 1183)*

EN ISO 11357-6, *Plastics - Differential scanning calorimetry (DSC) - Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT) (ISO 11357-6)*

ISO 974, *Plastics — Determination of the brittleness temperature by impact*