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This standard includes the English version of the European Standard.

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SUTN

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61754-27

July 2013

ICS 33.180.20

English version

**Fibre optic interconnecting devices and passive components -
Fibre optic connector interfaces -
Part 27: Type M12-FO connector family
(IEC 61754-27:2013)**

Dispositifs d'interconnexion et
composants passifs à fibres optiques -
Interfaces de connecteurs pour fibres
optiques -
Partie 27: Famille de connecteurs de type
M12-FO
(CEI 61754-27:2013)

Lichtwellenleiter -
Verbindungselemente und passive
Bauteile -
Steckgesichter von Lichtwellenleiter-
Steckverbindern -
Teil 27: Steckverbinderfamilie der Bauart
M12-FO
(IEC 61754-27:2013)

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Foreword

The text of document 86B/3597/FDIS, future edition 1 of IEC 61754-27, prepared by IEC/TC 86B "Fibre optic interconnecting devices and passive components" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61754-27:2013.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-03-20
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60793-2	NOTE	Harmonised as EN 60793-2.
IEC 61754-1	NOTE	Harmonised as EN 61754-1.
IEC 61755 Series	NOTE	Harmonised as EN 61755 Series (partly modified).
IEC 61755-1	NOTE	Harmonised as EN 61755-1.

Annex ZA
(normative)

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with their corresponding European publications**

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NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	EN 60529	-
IEC 60793-2-30	-	Optical fibres - Part 2-30: Product specifications - Sectional specification for category A3 multimode fibres	EN 60793-2-30	-
IEC 60793-2-40	-	Optical fibres - Part 40: Product specifications - Sectional specification for category A4 multimode fibres	EN 60793-2-40	-
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	-
IEC 61076-2-101	-	Connectors for electronic equipment - Product requirements - Part 2-101: Circular connectors - Detail specification for M12 connectors with screw-locking	EN 61076-2-101	-
IEC 61755-3	Series	Fibre optic connector optical interfaces - Part 3: Optical interface	EN 61755-3	Series
ISO/IEC/TR 29106	-	Information technology - Generic cabling - Introduction to the MICE environmental classification	-	-



INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces –
Part 27: Type M12-FO connector family**

**Dispositifs d'interconnexion et composants passifs à fibres optiques –
Interfaces de connecteurs pour fibres optiques –
Partie 27: Famille de connecteurs de type M12-FO**





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES
AND PASSIVE COMPONENTS –
FIBRE OPTIC CONNECTOR INTERFACES –**
Part 27: Type M12-FO connector family**FOREWORD**

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International Standard IEC 61754-27 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

The text of this standard is based on the following documents:

FDIS	Report on voting
86B/3597/FDIS	86B/3626/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61754 series, published under the general title, *Fibre optic interconnecting and passive components – Fibre optic connector interfaces*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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**FIBRE OPTIC INTERCONNECTING DEVICES
AND PASSIVE COMPONENTS –
FIBRE OPTIC CONNECTOR INTERFACES –**

Part 27: Type M12-FO connector family

1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type M12-FO family of connectors.

This connector is of duplex plug/adaptor/plug configuration and designed for industrial environment as described in ISO/IEC TR 29106, severity class M₃ and I₃. Multiple designs for machines and equipment require solutions with different fibre types.

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