

BS EN 61754-28:2012



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Fibre optic interconnecting devices and passive components — Fibre optic connector interfaces

Part 28: Type LF3 connector family

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The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/2, Fibre optic interconnecting devices and passive components.

A list of organizations represented on this committee can be obtained on request to its secretary.

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EUROPEAN STANDARD
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EN 61754-28

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English version

**Fibre optic interconnecting devices and passive components -
Fibre optic connector interfaces -
Part 28: Type LF3 connector family
(IEC 61754-28:2012)**

Dispositifs d'interconnexion et composants
passifs à fibres optiques -
Interfaces de connecteurs pour fibres
optiques -
Partie 28: Famille de connecteurs de type
LF3
(CEI 61754-28:2012)

Lichtwellenleiter -
Verbindungselemente und passive
Bauteile -
Steckgesichter von Lichtwellenleiter-
Steckverbindern -
Teil 28: Steckverbinderfamilie der Bauart
LF3
(IEC 61754-28:2012)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 86B/3387/FDIS, future edition 1 of IEC 61754-28, prepared by SC 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 61754-28:2012.

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) 2013-03-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-06-19

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

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The text of the International Standard IEC 61754-28:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

ISO 8015 NOTE Harmonized as EN ISO 8015.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

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 60794-2-50	-	Optical fibre cables - Part 2-50: Indoor cables - Family specification for simplex and duplex cables for use in terminated cable assemblies	EN 60794-2-50	-

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INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning IEC 61754-28.

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

Part 28: Type LF3 connector family

1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type LF3 family of connectors.

2 Normative reference

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.

IEC 60794-2-50, *Optical fibre cables – Part 2-50: Indoor cables – Family specification for simplex and duplex cables for use in terminated cable assemblies*

3 Description

The parent connector for the type LF3 connector family is a simplex connector which is characterized by a 1,25 mm nominal ferrule diameter. It includes a push-click-pull coupling mechanism, which is spring-loaded relative to the ferrule in the direction of the optical axis. The optical alignment mechanism of the connectors is a rigid bore sleeve or a resilient sleeve style.

Drawings and dimensions provided consist of those minimum features that are functionally critical during the mating and unmating sequences of the plug with its adapter/receptacle counterpart component.

4 Interfaces

The pages that follow define the standard interfaces for the type LF3 connector family.

This standard contains the following standard interfaces:

61754-28-1	Simplex plug connector PC-interface
61754-28-2	Simplex adaptor interface
61754-28-3	Simplex active device receptacle interface
61754-28-4	Duplex plug connector PC-interface
61754-28-5	Duplex adaptor interface
61754-28-6	Duplex active device receptacle interface
61754-28-7	Simplex plug connector interface – APC 8°
61754-28-8	Duplex plug connector interface – APC 8°

The standards in Table 1 are intermateable.