



SLOVENSKI STANDARD
SIST EN 61754-20:2012/A1:2022

01-oktober-2022

Optični spojni elementi in pasivne komponente - Vmesniki za optične konektorje - 20. del: Družina konektorjev tipa LC - Dopolnilo A1 (IEC 61754-20:2012/AMD1:2022)

Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 20: Type LC connector family (IEC 61754-20:2012/AMD1:2022)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Steckgesichter von Lichtwellenleiter- Steckverbindern - Teil 20: Steckverbinderfamilie der Bauart LC (IEC 61754-20:2012/AMD1:2022)

Dispositifs d'interconnexion et composants passifs fibroniques - Interfaces de connecteurs pour fibres optiques - Partie 20: Famille de connecteurs de type LC (IEC 61754-20:2012/AMD1:2022)

Ta slovenski standard je istoveten z: EN 61754-20:2012/A1:2022

ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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SIST EN 61754-20:2012/A1:2022	en
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61754-20:2012/A1

August 2022

ICS 33.180.20

English Version

**Fibre optic interconnecting devices and passive components -
Fibre optic connector interfaces - Part 20: Type LC connector
family
(IEC 61754-20:2012/AMD1:2022)**

Dispositifs d'interconnexion et composants passifs
fibroniques - Interfaces de connecteurs à fibres optiques -
Partie 20: Famille de connecteurs de type LC
(IEC 61754-20:2012/AMD1:2022)

Lichtwellenleiter - Verbindungselemente und passive
Bauteile - Steckgesichter von Lichtwellenleiter-
Steckverbindern - Teil 20: Steckverbinderfamilie der
Bauart LC
(IEC 61754-20:2012/AMD1:2022)

This amendment A1 modifies the European Standard EN 61754-20:2012; it was approved by CENELEC on 2022-08-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 61754-20:2012/A1:2022 (E)**European foreword**

The text of document 86B/4534/CDV, future IEC 61754-20/AMD1, 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 61754-20:2012/A1:2022.

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) 2023-05-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-08-03

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iTeh STANDARD PREVIEW

The text of the International Standard IEC 61754-20:2012/AMD1:2022 was approved by CENELEC as a European Standard without any modification.

[SIST EN 61754-20:2012/A1:2022](https://standards.iteh.ai/catalog/standards/sist/e06b4767-1898-4e27-851a-11dbe3b6109c/sist-en-61754-20-2012-a1-2022)

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IEC 61754-20

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces –
Part 20: Type LC connector family**

**Dispositifs d'interconnexion et composants passifs fibroniques – Interfaces de connecteurs à fibres optiques –
Partie 20: Famille de connecteurs de type LC**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES
AND PASSIVE COMPONENTS –
FIBRE OPTIC CONNECTOR INTERFACES –****Part 20: Type LC connector family****AMENDMENT 1****FOREWORD**

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Amendment 1 to IEC 61754-20:2012 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

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

Draft	Report on voting
86B/4534/CDV	86B/4595A/RVC

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

The language used for the development of this Amendment is English.

IEC 61754-20:2012/AMD1:2022
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This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications/.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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4 Interfaces

Replace the text above Table 1 with the following new text:

This document contains the following standard interfaces:

Interface 61754-20-1: simplex plug connector interface – physical contact (PC)

Interface 61754-20-2: simplex adaptor interface

Interface 61754-20-3: simplex active device receptacle interface

Interface 61754-20-4: duplex plug connector interface – PC

Interface 61754-20-5: duplex adaptor interface

Interface 61754-20-6: duplex active device receptacle interface

Interface 61754-20-7: simplex plug connector interface – angled physical contact (APC) 8°

Interface 61754-20-8: duplex plug connector interface – APC 8°

Interface 61754-20-9: simplex plug connector interface – plastic optical fibre (POF) 1,25 mm jacketed outer diameter (OD)

Interface 61754-20-10: duplex plug connector interface – POF 1,25 mm jacketed OD

Interface 61754-20-11: simplex plug connector interface – POF 1 mm

Interface 61754-20-12: duplex plug connector interface – POF 1 mm

Interface 61754-20-13: simplex adaptor interface – POF 1 mm

Interface 61754-20-14: duplex adaptor interface – POF 1 mm

Interface 61754-20-15: simplex active device receptacle interface – POF 1 mm

Interface 61754-20-16: duplex active device receptacle interface – POF 1 mm

Interface 61754-20-17: quad plug interface – PC

Interface 61754-20-18: quad plug interface – APC 8°

Interface 61754-20-19: quad adaptor interface

Interface 61754-20-20: quad active device receptacle interface

- The plug of interface IEC 61754-20-1, interface IEC 61754-20-4 and interface 61754-20-17 has a ferrule with a spherically polished non-angled endface (PC) shown in Figure 2a).
- The plug of interface IEC 61754-20-7, interface IEC 61754-20-8 and interface 61754-20-18 has a ferrule with a spherically polished angled endface (APC) shown in Figure 2c).
- The plug interfaces IEC 61754-20-9 through IEC 61754-20-12 have a flat smooth endface shown in Figure 2b) (POF only).

- The plug interfaces IEC 61754-20-9 and IEC 61754-20-10 (POF 1,25 mm jacketed OD) have a POF fibre of up to 0,750 mm in a 1,25 mm OD ferrule.
- The plug interfaces IEC 61754-20-11 and IEC 61754-20-12 are the 1 mm POF without the use of a ferrule (see Table 3, footnote f).
- The plug connector interfaces and associated details are given in Figure 1, Figure 2, Figure 3, Figure 4, and Figure 5 along with Table 3 and Table 4.
- The adaptor interfaces and associated details are given in Figure 6, Figure 7, and Figure 8 along with Table 5.
- The active device receptacle interfaces and associated details are given in Figure 9, Figure 10, and Figure 11 along with Table 6, Table 7, and Table 8.
- The intermateability between plugs, adaptors, and receptacles is given in Table 1.
- The intermateability between the different plug interfaces is given in Table 2.

Replace Table 1 and Table 2 with the following new Table 1 and Table 2:

Table 1 – Plug to adaptor/receptacle intermateability

Plug interfaces IEC 61754	Adaptor/active device receptacle interfaces IEC 61754									
	20-2	20-3	20-5	20-6	20-13	20-14	20-15	20-16	20-19	20-20
20-1	Mate	Mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Mate	Mate
20-4	Not mate	Not mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Mate	Mate
20-7	Mate	Not mate	Mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Not mate
20-8	Not mate	Not mate	Mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Not mate
20-9	Mate	Mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Mate	Mate
20-10	Not mate	Not mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Mate	Mate
20-11	Not mate	Not mate	Not mate	Not mate	Mate	Mate	Mate	Mate	Not mate	Not mate
20-12	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Not mate	Mate	Not mate	Not mate
20-17	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Mate
20-18	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Not mate

Table 2 – Plug to plug intermateability

Plug interfaces IEC 61754	Plug Interfaces IEC 61754									
	20-1	20-4	20-7	20-8	20-9	20-10	20-11	20-12	20-17	20-18
20-1	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Not mate
20-4	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Not mate
20-7	Not mate	Not mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate
20-8	Not mate	Not mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate
20-9	Not mate	Not mate	Not mate	Not mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate
20-10	Not mate	Not mate	Not mate	Not mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate
20-11	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Mate	Not mate	Not mate
20-12	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Mate	Not mate	Not mate
20-17	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate	Not mate
20-18	Not mate	Not mate	Mate	Mate	Not mate	Not mate	Not mate	Not mate	Not mate	Mate

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