

Fibre optic connector interfaces —

Part 18: Type MT-RJ connector family

The European Standard EN 61754-18:2002 has the status of a
British Standard

ICS 33.180.20

National foreword

This British Standard is the official English language version of EN 61754-18:2002. It is identical with IEC 61754-18:2001. It supersedes DD IEC PAS 61754-18:2001 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/2, Fibre optic interconnecting devices, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
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Part 18: Type MT-RJ connector family
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pour fibres optiques
Partie 18: Famille de connecteurs
de type MT-RJ
(CEI 61754-18:2001)

Steckgesichter von LWL-Steckverbindern
Teil 18: Steckverbinderfamilie
der Bauart MT-RJ
(IEC 61754-18:2001)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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Foreword

The text of document 86B/1594/FDIS, future edition 1 of IEC 61754-18, 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 was approved by CENELEC as EN 61754-18 on 2002-03-01.

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- latest date by which the national standards conflicting
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Endorsement notice

The text of the International Standard IEC 61754-18:2001 was approved by CENELEC as a European Standard without any modification.

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FIBRE OPTIC CONNECTOR INTERFACES –

Part 18: Type MT-RJ connector family

1 Scope

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

2 Description

The parent connector for the type MT-RJ connector family is a plug connector having single or multiple fibres in a rectangular ferrule nominally 4,4 mm × 2,5 mm aligned by two 0,7 mm diameter pins and corresponding holes. The connector includes a single coupling latch and a ferrule spring loaded in the direction of the optical axis. The plug connector has a single male key which may be used to orientate the connector and the component to which it is mated.

Connector interfaces are configured as a plug without pins, an adaptor and a plug with pins or alternatively as a plug without pins and a receptacle with pins. Adaptors use ribs to pre-align ferrules. Receptacles with and without ribs are defined.

3 Interfaces

Subsequent pages define the standard interfaces for the type MT-RJ connector family.

This standard contains the following standard interfaces:

Interface **61754-18-1** MT-RJ plug connector interface, without pins, consisting of

- Interface 61754-18-1-1 for single fibre
- Interface 61754-18-1-2 for two fibres with a pitch of 0,25 mm
- Interface 61754-18-1-3 for two fibres with a pitch of 0,75 mm
- Interface 61754-18-1-4 for four fibres with a pitch of 0,25 mm

Interface **61754-18-2** MT-RJ plug connector interface, with pins, consisting of

- Interface 61754-18-2-1 for single fibre
- Interface 61754-18-2-2 for two fibres with a pitch of 0,25 mm
- Interface 61754-18-2-3 for two fibres with a pitch of 0,75 mm
- Interface 61754-18-2-4 for four fibres with a pitch of 0,25 mm

Interface **61754-18-3** MT-RJ adaptor interface

Interface **61754-18-4** MT-RJ receptacle interface, with pins, without ribs, consisting of

- Interface 61754-18-4-1 for single fibre
- Interface 61754-18-4-2 for two fibres with a pitch of 0,25 mm
- Interface 61754-18-4-3 for two fibres with a pitch of 0,75 mm
- Interface 61754-18-4-4 for four fibres with a pitch of 0,25 mm

Interface **61754-18-5** MT-RJ receptacle interface, with pins, with ribs, consisting of

Interface 61754-18-5-1 for single fibre

Interface 61754-18-5-2 for two fibres with a pitch of 0,25 mm

Interface 61754-18-5-3 for two fibres with a pitch of 0,75 mm

Interface 61754-18-5-4 for four fibres with a pitch of 0,25 mm

The following standards are intermateable.

3.1 Plug-adaptor-plug

Plug without pins	Adaptor	Plug with pins
61754-18-1-1	61754-18-3	61754-18-2-1
61754-18-1-2	61754-18-3	61754-18-2-2
61754-18-1-3	61754-18-3	61754-18-2-3
61754-18-1-4	61754-18-3	61754-18-2-4

3.2 Plug-receptacle – without ribs

Plug without pins	Receptacle with pins
61754-18-1-1	61754-18-4-1
61754-18-1-2	61754-18-4-2
61754-18-1-3	61754-18-4-3
61754-18-1-4	61754-18-4-4

3.3 Plug-receptacle – with ribs

Plug without pins	Receptacle with pins
61754-18-1-1	61754-18-5-1
61754-18-1-2	61754-18-5-2
61754-18-1-3	61754-18-5-3
61754-18-1-4	61754-18-5-4