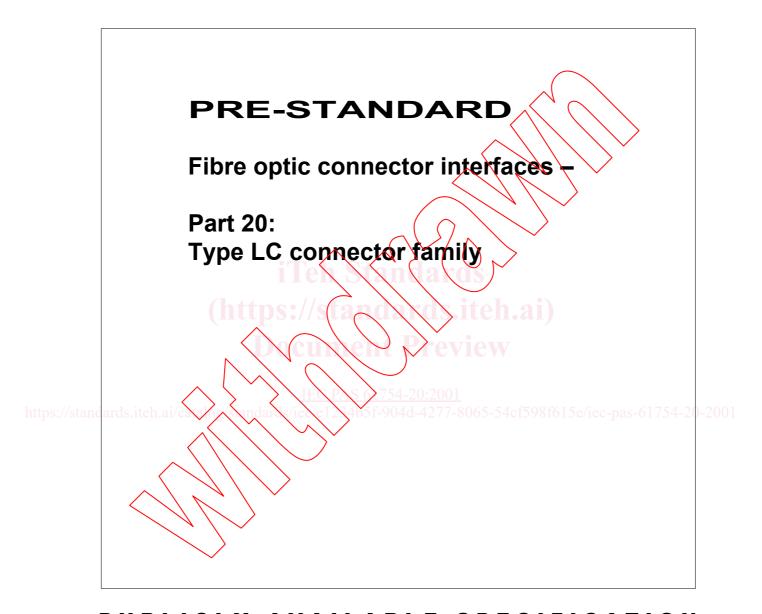
IEC/PAS 61754-20

Edition 1.0 2001-05



PUBLICLY AVAILABLE SPECIFICATION

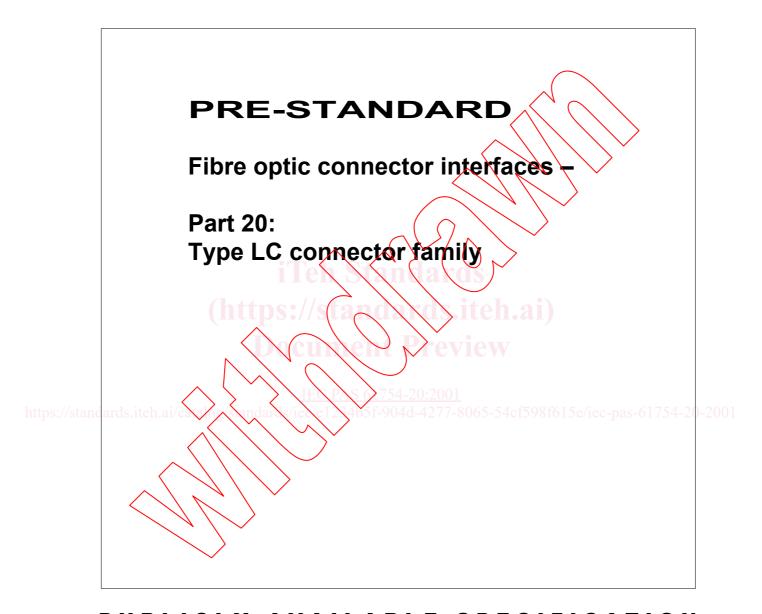


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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC CONNECTOR INTERFACES -

Part 20: Type LC connector family

FOREWORD

A PAS is a technical specification not fulfilling the requirements for a standard, but made available to the public and established in an organization operating under given procedures.

IEC-PAS 61754-20 has been processed by subcommittee86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

The text of this PAS is based on the following document:

This PAS was approved for publication by the P-members of the committee concerned as indicated in the following document:

Draft PAS	\wedge		7		Rep	ort on	voting
86B/1453/PAS	1 /	n		la	86	B/150	3/RVD

Following publication of this PAS, the technical committee or subcommittee concerned will investigate the possibility of transforming the PAS into an International Standard.

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- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this PAS may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

FIBRE OPTIC CONNECTOR INTERFACES -

Part 20: Type LC connector family

1 Scope

This document defines the standard interface dimensions for the type LC family of connectors.

2 Description

The parent connector for type LC connector family is a single position plug connector set of plug/adaptor configuration which is characterized by a 1.25 mm hominal diameter ferrule. The connector includes a single coupling latch and a ferrule spring loaded in the direction of the optical axis The plug has a single male key, which may be used to orient and limit the relative position between the connector and the component to which it is mated. The optical alignment mechanism of the connectors is a rigid bore sleeve or a resilient sleeve.

3 Interfaces

The subsequent pages define the standard interfaces for the type LC connector family. The standard interfaces contained in this document are listed in the following:

IEC 61754-20-1: Simplex Plug Connector Interface – PC

IEC 61754-20-2: Simplex Adaptor Connector Interface

IEC 61754-20-3; Simplex Active Device Receptacle Interface

IEC 61754-20-4; Duplex Plug Connector Interface – PC

IEC 61754-20-5: Duplex Adaptor Connector Interface

IEC 61754-20-6: Duplex Active Device Receptacle Interface

IEC 61754-20-7: Simplex Plug Connector Interface – APC 8°

IEC 61754-20-8; Duplex Plug Connector Interface – APC 8°

The plug of IEC 61754-20-1 and IEC 61754-20-4 has a ferrule with a spherically polished endface, and realizes physical contact (PC). The plug of IEC 61754-20-7 and IEC 61754-20-8 has a ferrule with a spherically polished angled endface which may take any of the APC forms shown in Detail A and realizes a physical contact.

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The following plugs, adaptors, and receptacles are intermateable

Plugs	Adaptors/Active Device Receptacles Interfaces						
(polishing condition)	61754-20-2	61754-20-3	61754-20-5	61754-20-6			
Interface 61754-20-1	mate	mate	mate	mate			
Interface 61754-20-4	not mate	not mate	mate	mate			
Interface 61754-20-7	mate	not mate	mate	not mate			
Interface 61754-20-8	not mate	not mate	mate	not mate			

Plugs	Plug (polishing condition)					
(polishing condition)	61754-20-1	61754-20-4	61754-20-7	61754-20-8		
Interface 61754-20-1	mate	mate	not mate	not mate		
Interface 61754-20-4	mate	mate	not mate	not mate		
Interface 61754-20-7	not mate	not mate	mate	mate		
Interface 61754-20-8	not mate	not mate	mate	mate		



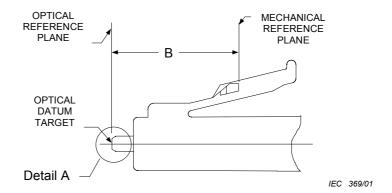


Figure 1 – Plug Connector Interface Reference Planes

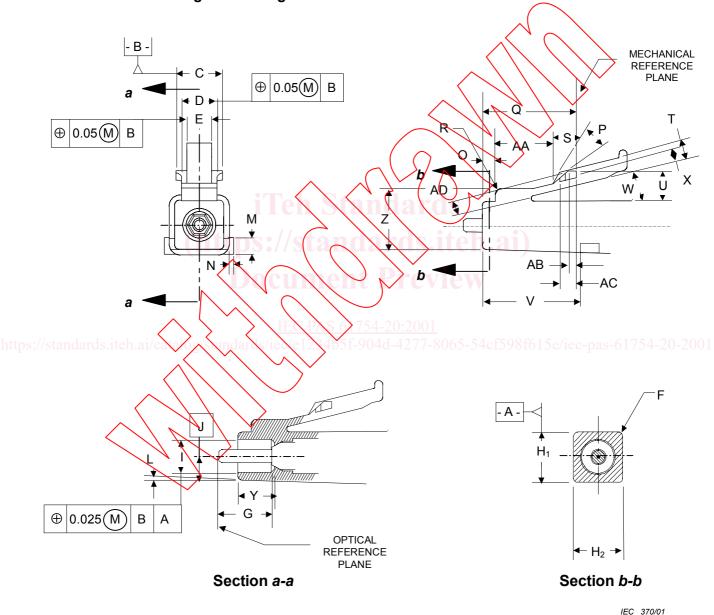
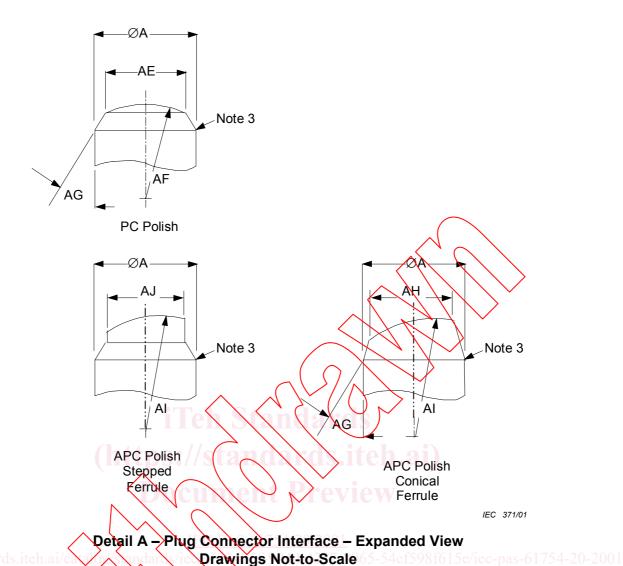


Figure 2 – Plug Connector Interface



The plug of IEC 61754-20-1 and IEC 61754-20-4 has a ferrule with a spherically polished endface, and realizes physical contact (PC). The plug of IEC 61754-20-7 and IEC 61754-20-8 has a ferrule with a spherically polished angled endface which may take any of the APC forms shown in Detail A and realizes a physical contact.

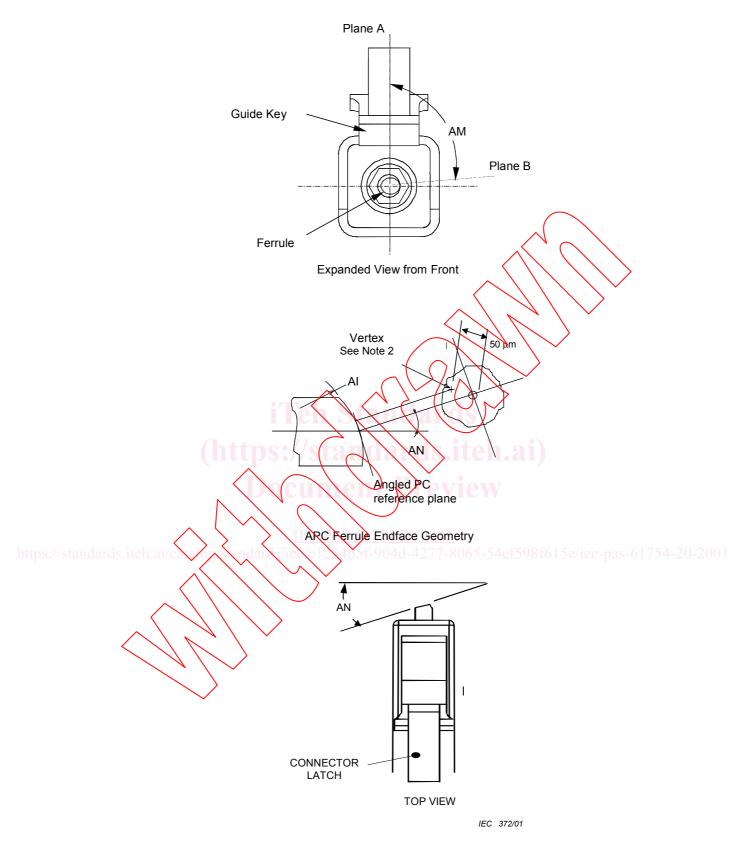


Figure 3 – APC Plug Connector Interface