

CECC



Style: Configuration A, Type de fibre A1.a

Style: Configuration A, Fibre Type A1.a

Bauform: Aufbau A, Fasertyp A1.a



Edition
Issue
Ausgabe

CECC 81 101-804

1994

Information about the System may be obtained from:



FEN e.V. Secretariat
and
CECC General Secretariat
Gartenstraße 179
D - 60596 Frankfurt
Telephone: Int. + 49 69 639171
Telefax: Int. + 49 69 639427

or from the National Authorized Institutions
of the participating countries listed
who can supply copies of:

- 1 The Internal Regulations of the FEN e.V.
- 2 The Rules of Procedure of the System
- 3 CECC Specifications of the FEN and National Specifications for the System
- 4 CECC 00 200: Register of Firms, Products, and Services Approved under the CECC System
- 5 CECC 00 300: Register of National Documents Implementing CECC Publications and CECC European Standards
- 6 CECC 00 301: Register of CECC Specifications and Related Detail Specifications
- 7 Other CECC Publications and publicity documents

AUSTRIA
Österreichischer Verband für Elektrotechnik (ÖVE)
Eschenbachgasse 9
A-1010 VIENNA

BELGIUM
Comité Electrotechnique Belge
Avenue F. Van Kalken, 9
B-1070 BRUSSELS

DENMARK
Dansk Elektroteknisk Komite
Dansk Standard
Electrotechnical Sector
Baunegårdsvej 73
DK-2900 HELLERUP

FINLAND
Finnish Electrotechnical Standards Association (SESKO)
P.O. Box 134
SF-00211 HELSINKI 21

FRANCE
Union technique de l'Electricité
Participation française au CECC
F-92052 PARIS La Défense Cedex 64

GERMANY
Deutsche Elektrotechnische Kommission im DIN und VDE (DKE)
Stresemannallee 15
D-60596 FRANKFURT

IRELAND
EOLAS - The Irish Science and Technology Agency
Glasnevin
IRL-DUBLIN 9

ITALY
Comitato Elettrotecnico Italiano (CEI)
Viale Monza, 259
I-20126 MILAN

NETHERLANDS
Nederlands Elektrotechnisch Comité (NEC)
Kalfjeslaan 2
P.O. Box 5059
NL-2600 GB DELFT

NORWAY
Norsk Elektroteknisk Komite (NEK)
P.O. Box 280
Skøyen
N-0212 OSLO 2

PORTUGAL
Instituto Português da Qualidade
Rua José Estevão, 83A
P-1199 LISBOA CODEX

SPAIN
New Spanish Member
to be determined.

SWEDEN
Svenska Elektriska Kommissionen (SEK)
Box 1284
S-16428 KISTA-STOCKHOLM

SWITZERLAND
Schweizerischer Elektrotechnischer Verein (SEV)
Luppenstr. 1
CH-8320 FEHRALTORF

UNITED KINGDOM
UK Electronic Components Policy Council
Electrical Department
British Standards Institution
2, Park Street
GB-LONDON W1A 2BS

[1] Specification available from: CECC GENERAL SECRETARIAT	[2] CECC 81 101-804 Page 1 of 18
[3] ELECTRONIC COMPONENT OF ASSESSED QUALITY IN ACCORDANCE WITH GENERIC SPECIFICATION EN 181 000 : 1994 BLANK DETAIL SPECIFICATION EN 181 101 : 1994	[4] Issue 1

[5] DETAIL SPECIFICATION for

FIBRE OPTIC BRANCHING DEVICE OF ASSESSED QUALITY

Style: - Configuration: A, 9 ports
 - Fibre Type: A1.a
 - Connector Set: Not applicable

Type: Splitter/Combiner
(transfer matrix - Non wavelength selective
and numbering of - Bidirectional
ports see page 2) - Transmissive star 1 x 8

[6] Assessment Level: B	Qualification Approval Procedure: Fixed sample	Climatic category: 25/070/21
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[7] Outline dimensions
and mass



Panel piercing and
mounting details:
Not applicable.

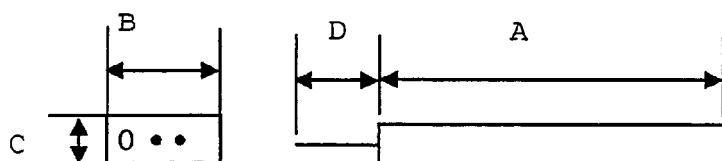


Figure 1 (Not to scale)

Dimensions (mm)			
Ref.	Min.	Max.	Notes
A, B	98	102	
C	10	10,5	
D	1200	1500	Pigtail

Mass (g): < 20.

Information about manufacturers who have components qualified to this Detail Specification is available in the current CECC 00 200, Register of Approvals.

[8] Variants:

Variant No.	Operating wavelength (μm)	Pigtail type
A-01	0,85 / 1,31	loose tube 0,5 mm/1,1 mm
A-02	0,85 / 1,31	tight jacket 2,7 mm O.D.

Transfer matrix and numbering of ports:



Variants: A-01, A-02

Operating wavelength: 0,85 μm / 1,31 μm

Launch Port	Receive Ports								
	1	2	3	4	5	6	7	8	9
1	$a_{11} = x$	$a_{12} \leq 14$	$a_{13} \leq 14$	$a_{14} \leq 14$	$a_{15} \leq 14$	$a_{16} \leq 14$	$a_{17} \leq 14$	$a_{18} \leq 14$	$a_{19} \leq 14$
2	$a_{21} \leq 14$	$a_{22} = x$	$a_{23} \geq 40$	$a_{24} \geq 40$	$a_{25} \geq 40$	$a_{26} \geq 40$	$a_{27} \geq 40$	$a_{28} \geq 40$	$a_{29} \geq 40$
3	$a_{31} \leq 14$	$a_{32} \geq 40$	$a_{33} = x$	$a_{34} \geq 40$	$a_{35} \geq 40$	$a_{36} \geq 40$	$a_{37} \geq 40$	$a_{38} \geq 40$	$a_{39} \geq 40$
4	$a_{41} \leq 14$	$a_{42} \geq 40$	$a_{43} \geq 40$	$a_{44} = x$	$a_{45} \geq 40$	$a_{46} \geq 40$	$a_{47} \geq 40$	$a_{48} \geq 40$	$a_{49} \geq 40$
5	$a_{51} \leq 14$	$a_{52} \geq 40$	$a_{53} \geq 40$	$a_{54} \geq 40$	$a_{55} = x$	$a_{56} \geq 40$	$a_{57} \geq 40$	$a_{58} \geq 40$	$a_{59} \geq 40$
6	$a_{61} \leq 14$	$a_{62} \geq 40$	$a_{63} \geq 40$	$a_{64} \geq 40$	$a_{65} \geq 40$	$a_{66} = x$	$a_{67} \geq 40$	$a_{68} \geq 40$	$a_{69} \geq 40$
7	$a_{71} \leq 14$	$a_{72} \geq 40$	$a_{73} \geq 40$	$a_{74} \geq 40$	$a_{75} \geq 40$	$a_{76} \geq 40$	$a_{77} = x$	$a_{78} \geq 40$	$a_{79} \geq 40$
8	$a_{81} \leq 14$	$a_{82} \geq 40$	$a_{83} \geq 40$	$a_{84} \geq 40$	$a_{85} \geq 40$	$a_{86} \geq 40$	$a_{87} \geq 40$	$a_{88} = x$	$a_{89} \geq 40$
9	$a_{91} \leq 14$	$a_{92} \geq 40$	$a_{93} \geq 40$	$a_{94} \geq 40$	$a_{95} \geq 40$	$a_{96} \geq 40$	$a_{97} \geq 40$	$a_{98} \geq 40$	$a_{99} = x$

Note 1: Values in dB.

Note 2: X = values not specified.

Note 3: Uniformity < 4 dB.

[9] SUPPLEMENTARY INFORMATION	
Marking of the component (see 2.7.2 of EN 181 000):	
1. Manufacturer's identification mark	
2. Manufacturer's date code	
3. Manufacturer's part number	
4. Variant letter number	
5. Identification of the ports	
Marking of package (see 2.7.3 of EN 181 000):	
1. Manufacturer's identification mark	
2. Manufacturer's part number	
3. Manufacturer's date code	
4. Variant identification number	
5. Type designation	
6. Assessment level	
Ordering information:	
CECC 81 101-804-(Variant number)	
Related documents:	
Not applicable.	
Certified records of released lots:	
Certificate is required (see 3.5 of EN 181 000).	
Structural similarity:	
See 3.2 of EN 181 000.	

[10] TABLE 1: FIXED SAMPLE INSPECTION TEST SCHEDULE			
Test Sequence (Note)		EN 181 000 Clause	Sample Size
GROUP 0	Visual inspection Dimensions Insertion loss between conducting ports at 0,85 μm	4.5.1 4.5.2 4.5.5	40
GROUP 1	Insertion loss between conducting and isolated ports at 1,31 μm Insertion loss between isolated ports at 0,85 μm	4.5.5 4.5.5	15
GROUP 2	Cold Dry heat Damp heat	4.6.17 4.6.18 4.6.19	10
GROUP 3	Change of temperature Climatic sequence	4.6.22 4.6.20	10
GROUP 4	Vibration Pulling Drop test	4.6.1 4.6.4 4.6.15	5

Note: For details, measurements and performance requirements see table 4.