Rosenberger

PRODUCTPROFILE

Catalogue number: 062A0053G657A

Partnumber: 702692

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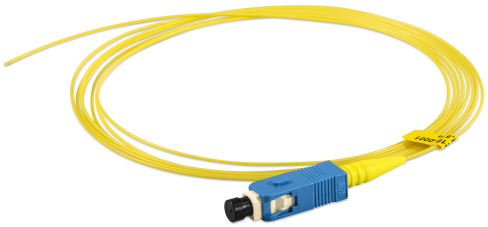
buffered-fiber pitail
Connector side A: SC-Simplex SM
Cable type: compact fiber 900µ 9/125µm, yellow
length: 2,5
Cable semi-tight buff.fiber,E9/125µm



Related documents:

DS_FASER G657A1_OE	Fiber Data Sheet
DS_SC_STECKER_OE	Steckerdatenblatt

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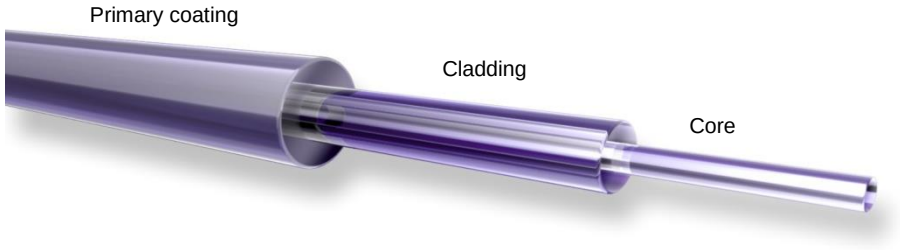
Rosenberger-OSI GmbH & Co. OHG
Tel.: +49 821 249249-0
www.rosenberger.com/osi; E-Mail: info-osi@rosenberger.com

Technical Data Sheet	Rosenberger
Optical fiber G.657.A1/G.652.D	059A0478



Standards

Stepped index fiber 9/125µm according to
-ISO/IEC 11801 und EN 50173-1 OS2
-IEC 60793-2-50 type B1.3
-ITU G.657.A1 und G.652.D

Structure

Silica fiber with two layer acrylate primary coating

Geometrical properties

Modefield diameter @1310 nm	**9.2 µm +/- 0.4 µm**
Modefield diameter @1550 nm	**10.4 µm +/- 0.5 µm**
Cladding diameter	**125 µm +/- 0.07 µm**
Cladding non-circularity	**≤ 0.7 %**
Core-Cladding concentricity	**≤ 0.5 µm**
Primary coating diameter	**242 µm +/- 5 µm**
Coating-Cladding concentricity	**< 12 µm**

Mechanical properties

Break strength SCREEN-Test 1 % strain for 1 s @100 kpsi

Thermal properties

Operating temperature range -60 to +85°C

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Transmission characteristics

Attenuation:

Cabled fiber tight buffered:	**@ 1310 nm max. 0.38 dB/km** **@ 1550 nm max. 0.28 dB/km**
Cabled fiber loose tube:	**@ 1310 nm max. 0.36 dB/km** **@ 1550 nm max. 0.22 dB/km**
Uncabled fiber:	**@ 1310 nm max. 0.32 dB/km** **@ 1383 nm max. 0.32 dB/km** **@ 1490 nm max. 0.21 dB/km** **@ 1550 nm max. 0.18 dB/km** **@ 1625 nm max. 0.20 dB/km**

Macrobending, induced attenuation, uncabled fiber:
Radius 10 mm, 1 turn, @ 1550 nm ≤ 0.50 dB
Radius 10 mm, 1 turn, @ 1625 nm ≤ 1.50 dB
Radius 15 mm, 10 turns, @ 1550 nm . 0.05 dB
Radius 15 mm, 10 turns, @ 1625 nm ≤ 0.30 dB
Radius 25 mm, 100 turns, @ 1310, 1550 und 1625 nm ≤ 0.01 dB

Dispersion:

@ 1285 - 1330 nm	**≤ 3.0 ps/(nm*km)**
@ 1550 nm	**≤ 18.0 ps/(nm*km)**
@ 1625 nm	**≤ 22.0 ps/(nm*km)**

Polarization Mode Dispersion (PMD):
PMD Link Design Value ≤ 0.04 ps/√km
Maximum individual fiber PMD ≤ 0.1 ps/√km

Cut-off-Wavelength: ≤ 1260 nm

Effective group index of refraction:
@ 1310 nm 1.4676
@ 1550 nm 1.4682

Backscatter attenuation @ 1ns pulse width:
@ 1310 nm -77 dB
@ 1550 nm -82 dB
@ 1625 nm -83 dB

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Draft	Date	Approved	Date
H. Jungbäck	12-04-15	P. Maier	12-04-15

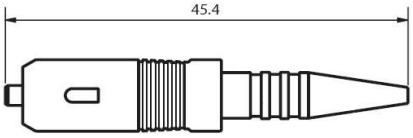
Rev.	Engineering change number	Name	Date
001	without	H. Jungbäck	12-04-15

Technical Data Sheet

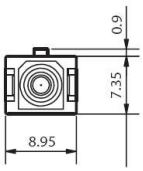
Rosenberger

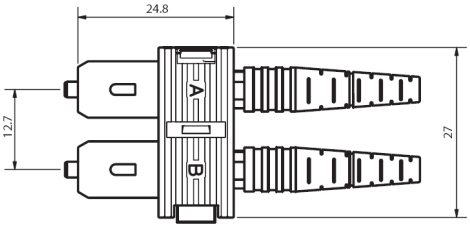
SC Connectors

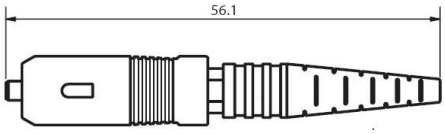
98 SCS XXX



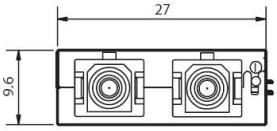
SC-simplex, buffered fiber







SC-simplex, cable



SC-duplex

All dimensions are in mm; tolerances acc. ISO 2768 m-H

Properties

Standard SC connectors for applications in telecommunications, data center, cabling and LAN, connections to active components.

Interface

SC, acc. to IEC 61754-4

Material for connectors

Ferrule :	Zirconia ceramic, Ø 2.5 mm
Body :	Plastics
Boot :	Plastics

Optical data

		Typical	max.
Insertion Loss :	S/M	0.20 dB	0.40 dB
	M/M	0.20 dB	0.40 dB
Return Loss :	S/M	≥45 dB(PC),	≥55 dB(UPC), ≥65 dB(APC)
	M/M	≥30 dB	

Mechanical data

Mating cycle	≥ 1000
Strain relief	100 N(dependent on the cable type)

Environmental data

Operation temperature range	-40°C to +85°C
Storage temperature range	-40°C to +85°C

Suitable cables

Cable Types :	Ø 0.9 ~ 3.5 mm

Packaging

Standard Packaging.

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Connector Part		Part No
Connector Body		
Singlemode, PC,	blue	98 SCS 120-101
Singlemode, APC,	green	98 SCS 110-101
Multimode, 50 µm,	black	98 SCS 130-101
Multimode, 62.5 µm,	beige	98 SCS 130-102
Duplex clip, black		98 ZD 02-0BK
Crimp sleeve		
for ∅ 2.1		98 ZC 05-000
for ∅ 2.8-3.5		98 ZC 04-000
Boot, ∅ 0.9 mm buffered fiber		
blue		98 ZB 06-0BU
green		98 ZB 06-0GN
black		98 ZB 06-0BK
yellow		98 ZB 06-0YE
red		98 ZB 06-0RD
Boot, ∅ 2.1 mm cable		
blue		98 ZB 05-0BU
green		98 ZB 05-0GN
black		98 ZB 05-0BK
yellow		98 ZB 05-0YE
red		98 ZB 05-0RD
Boot, ∅ 2.8-3.5 mm cable		
blue		98 ZB 04-0BU
green		98 ZB 04-0GN
black		98 ZB 04-0BK
yellow		98 ZB 04-0YE
red		98 ZB 04-0RD

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Draft	Date	Approved	Date
Y.Zhang	29.03.2017	H.Jungbäck	29.03.2017

Rev.	Engineering change number	Name	Date
002	---	Y.Zhang	29.03.2017