

## Technical Data Sheet

**Rosenberger**

### SC/APC Fiber Optic Connector & Cable Assembly

**98F02-XX & 98C**

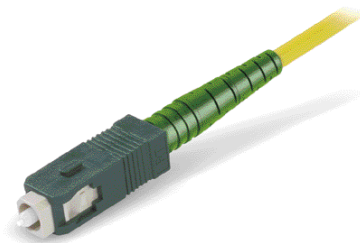
#### Application

- Channel to channel connection of fiber optic cables installed in distribution panels
- Connection of peripheral devices with a fiber optic interface
- On-site splicing with bulk cable
- Other scenarios where fiber termination is required

#### Features/Benefits

- Fiber types: Single-mode 9/125um
- Step-ferrule or conical-ferrule available
- 100% performance testing
- Providing test report for 3D geometric characteristics of connector end-face as required
- Separately packed in plastic bag, including serial number and attenuation data

#### Profile/Outline



#### Construction/Dimension/Material

- Ceramic ferrule and metal body
- Latching mechanism: Push-Pull
- Ferrule detail:
  - Circular 2.5mm
  - 8° angled-convex polished
  - Step-ferrule or conical-ferrule available
- Connector variants: simplex and duplex
- Color rule: green housing and green boot
- Fiber types: Single-mode 9/125um
- Cable types:

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Cable diameter: 0.9mm/1.6mm/1.8mm/2.0mm/3.0mm

Cable jacket material: Riser/Plenum/LSZH

### Technical Parameters

- Operating temperature: -40°C ~ +70°C
- Insertion loss: typical 0.20dB, maximum 0.40dB
- Return loss: min. 65dB
- Radius: 5 to 10mm
- Max. Apex Offset: 50um
- Fiber High: spherical +/-100nm
- Fiber Roughness: max. 50 nm
- Ferrule Roughness: max. 50nm
- Angle: 7.5° to 8.5°
- Key Error: +/-0.5°
- Single-mode-tuning for low random mating test dB, optional
- Mating cycles: >=1000 times
- Cable tension resistance: >= 100N

### Standards

- IEC 61754-4, 60874-14

### Ordering Information

Order Number	Description					
Connector						
98F02-41	Ferrule Type: Step, 0.9mm buffer					
98F02-42	Ferrule Type: Step, 1.6mm/1.8mm/2.0mm simplex					
98F02-43	Ferrule Type: Step, 3.0mm simplex					
98F02-55	Ferrule Type: Conical, 0.9mm buffer					
98F02-56	Ferrule Type: Conical, 1.6mm/1.8mm/2.0mm simplex					
98F02-57	Ferrule Type: Conical, 3.0mm simplex					
Patchcord or Pigtail						
98C	X(Cable Type)	X(Cable dia.)	X(Configuration)	322	X	XXXX
	S=G652D OFNR	2=Φ 2/Φ 2x2 Zipcord	0=Pigtail		M=meter	Cable Length
	E=G652D LSZH	3=Φ 3/Φ 3x2 Zipcord	1=Patchcord/Pigtail		F=feet	XXX.X meter

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P= G655 OFNR	6=Φ 1.6/Φ 1.6x2 Zipcord	2=Duplex pigtail	Cable Length XXX.X feet
	8=Φ 1.8/Φ 1.8x2 Zipcord	3=Duplex patchcord	
	9=Φ 0.9(Buffer)	4=Duplex pigtail (separately)	
		5=2F Patchcord/Pigtail (separately)	

**Warranty**

25 years of total warranty system guarantee the Rosenberger HDCS® for system.\*

\*Please check the detail warranty documents for more information.

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
Li Ping	2014-02-26	Joe	Steven	2014-02-26	100	New	April	2014-02-26

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Page

3 / 3