Technical Data Sheet	Rosenberger North America
Fiber Optic Cable Patch Cords – Made in USA	PXXXXXXXXXXXX

Scope

- This data sheet represents products which Rosenberger offers for sale Made in USA from our factory in Akron Pennsylvania.
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  - These products are a sub-set of many other cable/connector variations produced by Rosenberger. Please see our detailed Product Information catalogs or contact your sales representative for more information

Application

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

Features/Benefits

- Outer sheath made plenum rated material
- 100% performance testing
- Providing test report for 3D geometric characteristics of connector end-face as required
- Optical test report available on request
- Separately packed in plastic bag, including serial number and attenuation data
- Made in USA

Profile/Outline

Rosenberger North America
309 Colonial Dr. Akron, Pa 17501
Tel: +1 (717) 859-8900
Fax: +1 (717) 859-7044
Email : info@rosenbergerna.com
Web : https://www.rosenberger.com/us_en

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Construction/Dimension/Material

- Fiber types: Single-mode 9/125um, Multi-mode 62.5/125um and 50/125um
- Connecter variants: Simplex and duplex
- Cable options:
  - 2.0mm simplex/duplex cable
  - Other cable adoptions upon request
- Delivery form:
  - Single item in plastic bag
  - One product ID label with measurement values per patchcord
  - Serial number label on patchcord

Standards

- LC Comply with IEC 61754-20
- SC Comply with TIA/EIA 568, IEC 874-10
- The insertion loss test acc. to IEC 61300-3-4
- The return loss test acc. to IEC 61300-3-6

Fiber Type	International Standards	Attenuation (dB/km)	Wavelengths (nm)	Transmission Characteristics	Applications
OS2 9/125µm	ITU G.652.D, G.657.A1	0.36/0.22	1310/1550		1G/10G/40G/100G/400G Ethernet connection
OM1 62.5/125µm	ITU G.651.1 TIA/EIA 492AAAA-B IEC 60793-2-10 type A1b	3.0/1.0	850/1300	1G Ethernet Distance 280m at 850nm	100/1000BASE-SX transceivers. Fast Ethernet, gigabit Ethernet and fiber channel applications
OM3 50/125µm	ITU 651.1 TIA/EIA 492AAAC-B IEC 60793-2-10 Type A1a.2	3.0/1.0	850/1300	10G Ethernet Distance 300m at 850nm	10G SR, 10G LRM, SFP+ transceivers for 10G/40G/100G Ethernet applications
OM4 50/125µm	ITU 651.1 TIA/EIA 492AAAD IEC 60793-2-10 Type A1a.3	3.0/1.0	850/1300	10G Ethernet Distance 550m at 850nm 40G Ethernet Distance 150m at 850nm 100G Ethernet Distance 100m at 850nm	40G BIDI SR, 10G SR, QSFP+, SFP+ transceivers, etc. for 10G/40G/100G Ethernet applications

- Connector Insertion Loss & Return loss

Single-mode		IL Typical	IL Maximum	RL Typical	RL Minimum
SC; LC	Ultra (UPC)	0.20 dB	0.40 dB	-55 dB	-45dB
	Angle(APC)	0.20 dB	0.40 dB	-65dB	-60dB
Multi-mode					
SC; LC	Ultra (UPC)	0.15 dB	0.40 dB		

- Test Reference Cord Connector Insertion Loss & Return loss

Single-mode		IL Typical	IL Maximum	RL Typical	RL Minimum
SC; LC	Ultra (UPC)	0.080 dB	0.10 dB	-55 dB	-50dB
	Angle(APC)	0.080 dB	0.10 dB	-65dB	-60dB
Multi-mode					
SC; LC	Ultra (UPC)	0.080 dB	0.10 dB	-50dB	-35dB

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Mechanical Data

Minimum bending radius cable	
Installation	50 mm
Operation	30 mm
Max. tensile strength cable	
Installation	440 N
Permanent	132 N
Crush resistance	350 N / 100 mm
Tensile test for connector	Max.70N/120s
Tensile force between cable and connector (except for cable diameter of < 1 mm).	68 N

Environmental Data

Temperature range operation	-10 °C to +70 °C
Temperature range storage	-10°C to +70 °C
Temperature range installation	0 °C to +60
°C **2011/65/EU (RoHS)**	Compliant
Flammability UL Plenum	Compliant

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Ordering Information

Rosenberger patchcords and pigtails are ordered using 12 digits: **PXXXXXXXXXXXX**

Cord type	Fiber	Fiber	Connectors Left	Length	UofM	Connectors Right	Polarity	Jacket color	Cable Diameter (mm)
P= Patch Cord Standard	1 = Simplex OFNP	1 = Singlemode	1 = ST	XXXX	M = Meter	0 = Stub	A = A to B	E = Erika Violet	1 = 1.6
	3 = Duplex (Zip) OFNP	2 = 62.5 / OM1	2 = SC	0010=1 m	F = Feet	1 = ST	B = A to A	A = Aqua	2 = 2.0
	5 = Duplex (Round) OFNP	3 = 50 LO / OM3	3 = FC			2 = SC		O = Orange	3 = 3.0
		4 = 50 LO / OM4	4 = LC			3 = FC		Y = Yellow	
			H = LC/APC			4 = LC		I = Ivory	
			J = SC/APC			H = LC/APC			
			K = FC/APC			J = SC/APC			
						K = FC/APC			

*Note the last length digit represents decimal. For example the 0015 of P3140015M4AY2 means 1.5m
*SC uniboot is not available

Draft	Date	Approved	Date
D. Keller	5/29/20	Naomi	5/29/20

Rev.	Engineering change number	Name	Date
100	ECN 20-e000; Preliminary	D. Keller	5/29/20

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