

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.
- - 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



Technical Data Sheet

Rosenberger
North America

Fiber Optic Cable Patch Cords – Made in USA

PXXXXXXXXXXXX

Construction/Dimension/Material

- Fiber types: Single-mode 9/125um, Multi-mode 62.5/125um and 50/125um
- Connector 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 pigtaills are ordered using 12 digits: **PXXXXXXXXXXXX**

Cord type	Fiber	Fiber	Connector s 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

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

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