



SPECIFICATION



Name: SC patch cord,2.0/3.0
Issue Date: 2019-04-09

The P / N involved is listed as follows:

NO	P/N	Description
1	92317701	Opt P/C SM Duplex yellow 0.5m SC-UPC/SC-UPC OS2
2	92317702	Opt P/C SM Duplex yellow 1m SC-UPC/SC-UPC OS2
3	92317703	Opt P/C SM Duplex yellow 1.5m SC-UPC/SC-UPC OS2
4	92317704	Opt P/C SM Duplex yellow 2m SC-UPC/SC-UPC OS2
5	92317705	Opt P/C SM Duplex yellow 3m SC-UPC/SC-UPC OS2
Remarks : The number of meters can be from 0.5m-1m-1.5m……		

1. Application

Telecommunication networks

CATV

LAN & WAN

FTTX

Broadband Network

2. Fiber Specification

Meet YD/T1258.3-2009 standards:

2.1 OD: 2.0mm/ 3.0mm

2.2 MF: SM9/125;OM1 62.5/125;OM2/OM3/OM4 50/125

2.3 Printing request: e.g. WESTERN WIRE T61-M02 2x62.5/125μ OM1 MM FO ZIP-CORD ANSI/TIA-568-C.3 EN 50173 & ISO/IEC 11801 FR IEC60332-1 CE 2011/65/EU (RoHS-2) [Batch Number]

2.4 Aramid yarn: Imported Dupont aramid

2.5 Jacket Material: LSZH

3. Connector specification

11.3 All the connectors manufactured by Bo lai te Communication, SC connector meet YD/T1272.1-2003(SC,LC) standard.

11.4 Connector and cords appearance request: Smooth, clean surface, no dirt, scratches and cracks, and the dust cap properly fitted to the ferrule.

11.5 All parts require 96 hours of high and low temperature (-40~85 °C) test, and all meet ROHS environmental requirements.

11.6 Connector details:

Model		Shell	0.9 boot	2.0/3.0boot	Dust Cap	Remark
SC	APC	Green	Green	Green	SC dust cap	
SC	SM	Blue	Blue	Blue	SC dust cap	
SC	MM	Beige	Beige	Beige	SC dust cap	
SC	OM3	Aqua	Aqua	Aqua	SC dust cap	
SC	OM4	Purple	Purple	Purple	SC dust cap	

Model		Shell	0.9 boot	2.0/3.0boot	Dust Cap	Remark
LC	APC	Green	Green	Green	LC dust cap	
LC	SM	Blue	Blue	Blue	LC dust cap	
LC	MM	Beige	Beige	Beige	LC dust cap	
LC	OM3	Aqua	Aqua	Aqua	LC dust cap	
LC	OM4	Purple	Purple	Purple	LC dust cap	

Ferrule Specification

Model	ID "d"	Inner and outer circle concentricity "◎"	OD "D"
SC SM	0.1255±0.001	≤0.001	2.4990±0.0005
SC MM	0.1255±0.0015	≤0.004	2.4990±0.0005
LC SM	0.1255±0.001	≤0.001	1.2490±0.0005
LC MM	0.1255±0.0015	≤0.004	1.2490±0.0005

4. Cable cutting length requirements

All cables include the length of the joints at both ends unless specified. At room temperature, the fiber length error AL is specified as follows:

$L \leq 1\text{m}$	$0 \leq AL \leq 0.05\text{m}$
$1\text{m} < L \leq 20\text{m}$	$0 \leq AL \leq 0.08\text{m}$
$L > 20\text{m}$	$0 \leq AL \leq 1\% * L$

Coil: 1 meter/ 2 laps

5. Identification ring

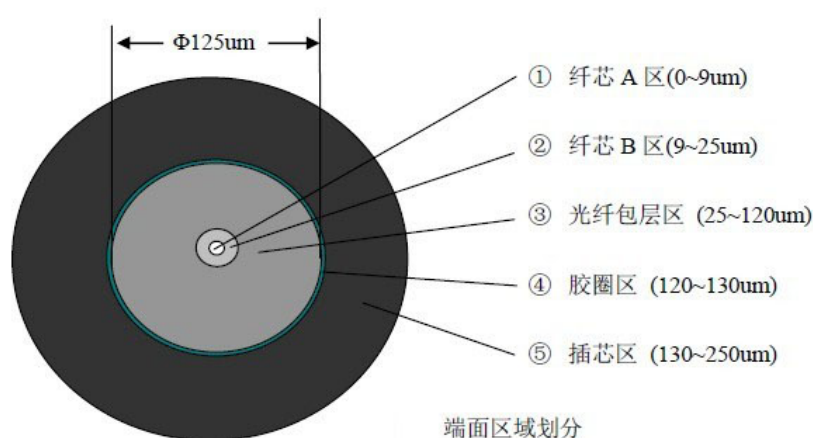
Mark 1 on the printing side, 2 on no-printing side.



6. End Face Standard (Conventional B-level standard)

Check the end face with a 400X end face device and without dirty. The ferrule SM cannot have a ruring, and the MM allows an inner ring of 2.5 mm. There should be no fine scratches in Zone A. There should be no small dots or small marks in Zone B. Elliptical ferrule holes and jagged ferrules are not accepted.

8.1 ferrule end view and inspection standards:



Position	Description	SM	MM
A	White spots, black spots, scratches	Not allowed	Not allowed
B	Scratch, width $\leq 0.5\text{mm}$ length $\leq 5\text{cm}$	1 allowed	1 allowed
	White dot $\leq 2\mu\text{m}$	1 allowed	1 allowed
	Black dot $\leq 2\mu\text{m}$	1 allowed	1 allowed
C	Crack, chipping	Not allowed	Not allowed
	Black dot $5\mu\text{m}$	3 allowed	3 allowed
	White dot $5\mu\text{m}$	3 allowed	3 allowed
	Scratch, width $\leq 0.5\text{mm}$ length $\leq 5\text{cm}$	2 allowed	2 allowed

Note: No cracks are allowed in the above 5 areas. The total defects are not more than 5. The aprons are 1/3 of the entire circumference. The SM is not allowed to have a MM width of 5 mm.

7. IL& RL test standard

SM UPC IL<0.30dB@1310, RL $\geq$ 55dB@1310, APC IL<0.30dB@1310, RL $\geq$ 60dB@1310

MM PC IL<0.30dB@850, RL $\geq$ 30dB@850

8. End face geometry parameters (meet 80% standard)

Pin OD	End face	Radius of curvature	Vertex offset	Fiber height	Angle
$\Phi 2.5$	APC	5-15	≤ 50	-100~+50	7.7-8.3
$\Phi 2.5$	PC/UPC	10-25	≤ 50	-100~+50	-----
$\Phi 1.25$	APC	5-12	≤ 50	-100~+100	7.7-8.3
$\Phi 1.25$	PC/UPC	7-25	≤ 50	-100~+100	-----

9. Packing Requirement

SC 2.0/3.0 DX patch cord: twisted into a butterfly shape, connectors to the two sides, two laps, two turns with white wire, the wire is tied for 1 round, the connector is placed face down In the bag. Example (Figure 1):



Figure 1

10. Packing Detail

11.1 Label (Figure2&3) for Reference

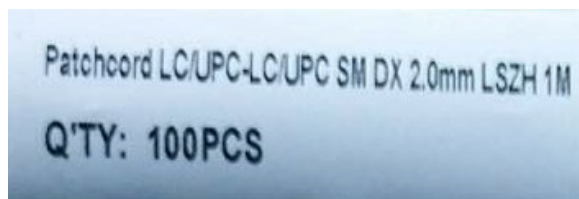


Figure 2



Figure 3

11.2 Zipper bag

1. Material: LDPE, 0.06mm
2. Size: 250*200mm
3. Color: transparent zipper bag

11.3 Small box:

1. Inner diameter: 270*245*100mm
2. Tolerance: ± 5 mm (refer to GB/T 6543-2008)
3. Material: C/250*140*250g
4. Molding conditions: bonding
5. Printing requirements: red and black printing (refer to GCMI 75 red & GCMI 90 black)
6. Packing: 5 / bundle, the color of the cable is white

11.4 Large box:

1. Inner diameter: 520*245*200mm
2. Tolerance: ± 5 mm (refer to GB/T 6543-2008)
3. Material: C/250*140*250g
4. Molding conditions: bonding
5. Printing requirements: red and black printing (refer to GCMI 75 red & GCMI 90 black)
6. Packing: 5 pcs/ bundle, the color of the cable is white

11.5 Packing quantity

1. Number of bag: 1 pc/bag
2. Number of small box: SC2.0 DX, 100 bags/box, SC3.0 DX, 75 bags/box
3. Number of large box: SC2.0 DX, 400 bags/box, SC3.0 DX, 300 bags/box

Reversion 版本	Date 发行日期	Originator 发行人	Approval 批准人	Change Description 变更描述
A	2017-05-09	HY	XU	
B	2019-04-09	HY	XU	Initial release