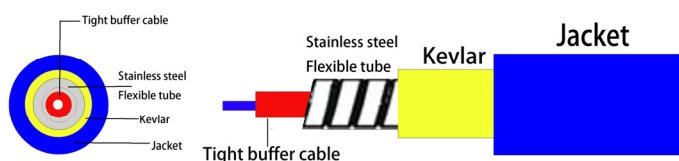


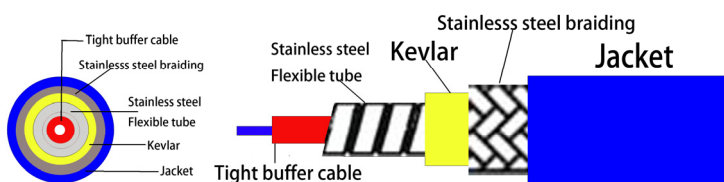
# DATASHEET

## Simplex armored FO patch cable

Make strongest Optical network Cabling System



IL<0.3dB Max



RoHS



OMC INDUSTRY CO.LIMITED



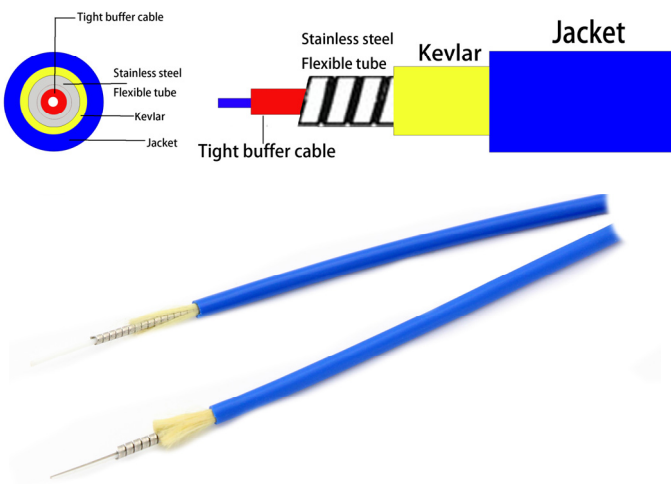
## Simplex armored FO patch cable

### Description

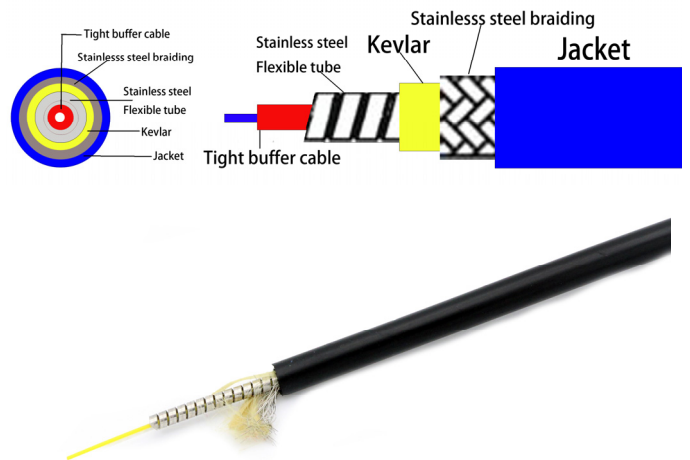
Armored Patch cable (Patch cord) is a patch cord which could be used as cooper patch cable. They adopted a cable with soft metal protection tube and standard connector. The apply place are in the floor corner. Those products could protect the fiber bite by mouse and ant. Although armored fiber optic cables are strong, they are actually as flexible as standard fiber optic patch cords; they can be bending randomly without being broken. The rugged armored cables allow optical fiber to be installed in the most hazardous areas, including environments with excessive dust, oil, gas, moisture, or even damage-causing rodents.

### Products Materials

#### Simplex Spiral Pipe Armored Cable



#### Simplex Spiral Pipe+stainless steel braiding Armored Cable



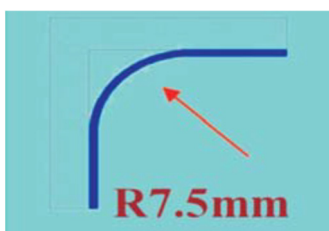
**Fiber :** G652D,G657A1,G657A2/B2,G657B3,OM1,OM2, OM3, OM4, OM5 Fibers

**Cable OD :** 2.0mm,2.4mm,2.6mm,3.0mm

**Cable Jacket:** PVC (Riser/OFNR), LSZH, Plenum (OFNP) Jacket materials

Minimum allowable Tensile Strength (N)		minimum allowable Crush Load (N/100mm)		Minimum Bending Radius (MM)	
short term	long term	short term	long term	short term	long term
1000	300	1000	500	20D	10D
1000	300	1000	500	20D	10D
1000	300	1000	500	20D	10D

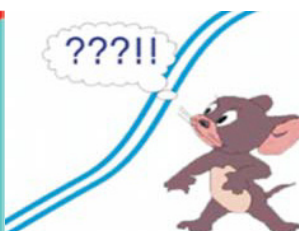
### Advantage of Armored cable



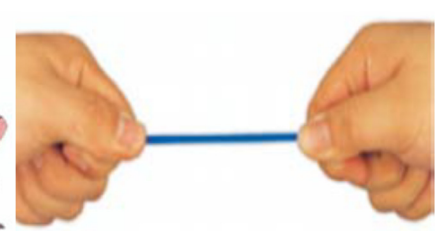
Small bending radius



Anti-tread



Anti-bite of mouse and ant



Big Tensile Strength



## Simplex armored FO patch cable

### Connector Type

#### LC

Standard ,Uniboot .  
Typical Applications :  
High-density  
connections, SFP and SFP+ transceivers,  
XFP transceivers.



#### SC

Standard boot ,  
Short boot  
Typical Applica-  
tions : Telecom;  
GPON; EPON; GBIC.



#### FC

Standard boot  
Typical Applications : Datacom,  
Telecom, measurement equip-  
ment, single-mode lasers



#### ST

Standard boot  
Typical Applications :



#### E2000

Huber+Suhner,R&M,Diamond  
Typical Applications : Telecom,  
DWDM



#### MU

Standard boot  
Typical Applications: LAN,  
Telecommunication Net-



#### D4

Standard boot



#### DIN

Standard boot



### Connector Standard

SC: TIA/EIA, FOCIS3, GR-326.NTT-SC IEC61754-4 and JIS C5973.

LC: TIA/EIA, FOCIS10, GR-326 EIA/TIA-604-10, IEC61754-20 and JIS C5973.

FC: EIA /TIA-604-04, FOCIS4, NTT-FC, GR-326. IEC61754-13 and JIS C5973

ST: TIA/EIA, FOCIS2, GR-326. IEC61754-2 and JIS C5973 Etc.

MU: TIA/EIA-604-3A, GR-326.NTT-MU, JIS and IEC.

MTRJ: TIA/EIA, FOCIS12, GR-326. IEC and JIS C5973.

DIN: IEC61754-3



Standard connectors LC, SC, ST, FC, E2000, MU, D4, Din, LX.5, SMA are available  
High precious connector guarantee Good Repeatability and Interchangeability  
OEM Housing kits Color, OEM boot Colors  
Customized Design for special demand



High quality SM Ceramic ferrule, Good concentricity<0.5um  
High quality MM Ceramic ferrule, Good concentricity<4.0um

## Optical Specifications

Connector	SC,LC,ST,FC,MU,E2000,MTRJ...	Polish	PC,UPC,APC
Fiber Mode	9/125μm, 50/125μm, 62.5/125μm,	Jacket Color	SM:Yellow/Blue/White; OM1&OM2: Grey/Orange; OM3:Aqua; OM4:Aqua/Violet/ Magenta
Cable OD	2.0mm,2.4mm,2.6mm,3.0mm	Wavelength	SM:1310/1550nm
Cable Structure	Simplex	Jacket Material	LSZH/PVC/OFNR/OFNP
Insertion loss	≤0.3dB(IEC Grade C) ≤0.12dB(IEC Grade B)	Crush Resistance (N/100mm)	<b>Long term 3000; short term:5000</b>
Return loss	SM UPC ≥ 50dB(min) SM APC ≥ 60dB(min) MM PC ≥ 35dB(min)	Interchangeability &Vibration	≤0.2dB
Tensile Strength (N)	<b>Long term 100; short term:200</b>	Operation&Storage temperature	-45~85°C

Items		Parameter	
Polishing		PC	APC
ROC	SC/FC/ST	10 ~ 25mm	5 ~ 12mm
	LC/MU	7~ 25mm	5 ~ 12mm
Apex Offset		≤ 50μm	
Fiber Spherical Height		±100nm	
Angle		—	8 ± 0.5

## Polishing Method



APC( 8 Angled Polished connector)



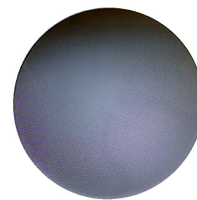
UPC (Ultra-Polished connector)

### End-face Quality (SM)

Zone	Range (μm)	Scratches	Defects	Reference
A: Core	0 to 25	None	None	IEC 61300-3-35:2015
B: Cladding	25 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	



SM UPC



SM APC

### End-face Quality (MM)

Zone	Range (μm)	Scratches	Defects	Reference
A: Core	0 to 65	None	None	IEC 61300-3-35:2015
B: Cladding	65 to 115	None	None	
C: Adhesive	115 to 135	None	None	
D: Contact	135 to 250	None	None	
E: Rest of ferrule		None	None	



MM PC

### Length Tolerance

Overall Length(L) (m)	length of tolerance (cm)
0<L<1	+5/-0
1<L<10	+10/-0
10<L<40	+15/-0
40<L	+0.5% x L/-0

### Packaging

This easily taken and well-protected fiber patch cable package has been labelled and marked by OMC as default .Standard carton size : 34\*22\*15 cm; 44\*34\*24 cm ; 54\*39\*34 cm . Which carton to be used depends on goods Qty . Packing can be customized.



1,Self-seal PE Bag



2 Bubble Bag



3, Paper Carton



4,fumig-free Pallet

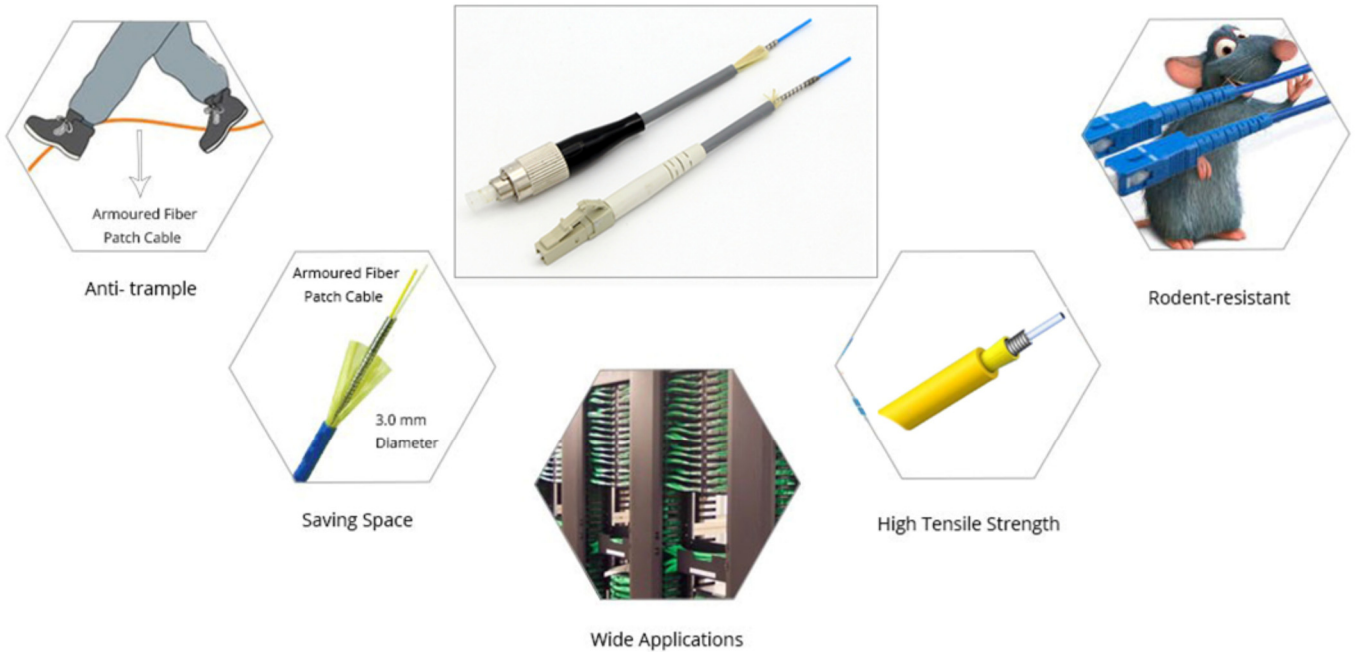
### OME service

1. Cable color, printing word, material of cable jacket, connector's color
2. OEM Label, Identify ring, cable's label, box, shipping marks
3. Different quality Level.

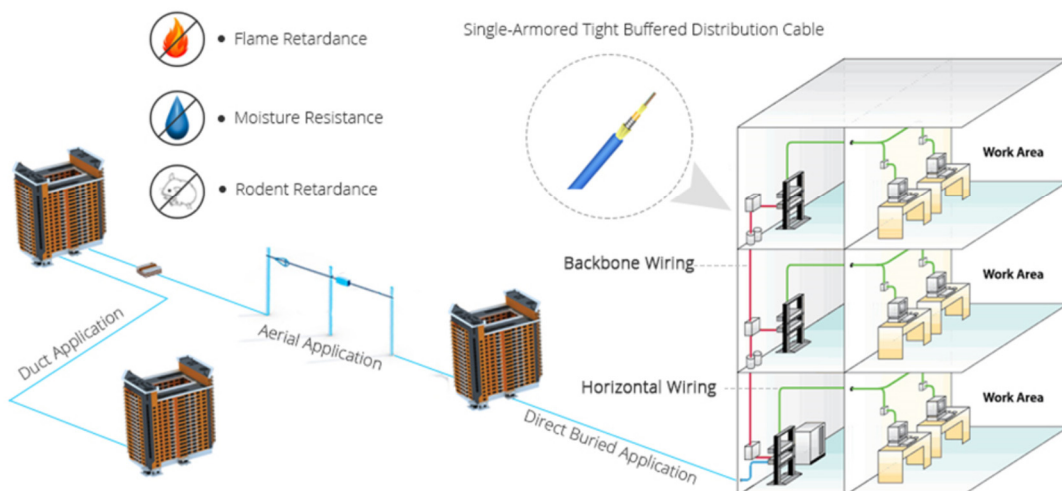


## Benefits of Armored Fiber Patch Cable

Common fiber optic cable is fragile, which needs to be protected, especially when in harsh applications where cables could be compromised by rodents, constant wear and tear or weather damage. Armored fiber patch cable retains all the features of standard fiber cable but is much stronger due to its extra layers of armor. With the protection of flexible and durable steel tube, armored fiber patch cable will ensure the excellent operation of your network.



Ideal for harsh installation conditions that require exceptional durability. It is used as interconnection or cross connection in data center. It is also used in ceiling, corridor and other harsh environment.



## Order Instruction

Armord patch cord	Fiber count	Fiber Grade	Connector A		Connector B		Unit cable OD	CABLE JACKET	CABLE COLOR		LENGTH
B	S1-Simplex armored	1 - G652D	A	LC UPC	A	LC UPC	1 - 2.0	H- LSZH	A	Blue	1=1m
	S2-Simplex armored +braiding	2 - G657A1	B	SC UPC	B	SC UPC	2 - 3.0	C - PVC	B	Orange	
	Z1-Zipcord DX armored	3 - G657A2/B2	C	FC UPC	C	FC UPC	3 - 3.3 (braiding)	R - OFNR	C	Green	
	Z1-Zipcord DX armored +braiding	4 - G657B3	D	ST UPC	D	ST UPC	4 - 0.9/0.6(>2F)	P - OFNP	D	Brown	
	R1-Uni-tube DX armored	5 - OM1	E	LC APC	E	LC APC		U - PU	E	Grey	
	R2-Uni-tube DX armored+ +braiding	6 - OM2	F	SC APC	F	SC APC		E - PE	F	White	
	A- 4 Cores	7 - OM3	G	FC APC	G	FC APC			G	Red	
	B - 6 Cores	8 - OM4	H	ST APC	H	ST APC			H	Black	
	C - 8 Cores	9 - OM5	I	E2000 UPC	I	E2000 UPC			I	Yellow	
	D - 12 Cores		J	E2000 APC	J	E2000 APC			J	Purple	
	E - 16 Cores								K	Pink	
	F - 24 Cores								L	aqua	
									M	magenta	
									X-	other	