

Mechanical Dome Closure

Model # : K-ridgeDome Series

K-ridgeDome Series provides high performance for protection and distribution of fiber optical splice point, division of optical signal, and connecting individual subscribers in various application.

Fiber optic splice closure for fiber optic cable may be exposed to severe environment conditions. The closure for fiber optic cable shall provide excellent durability and long-term reliability in those severe conditions.

Each port supports single or multiple cables/drops with specially designed grommet technology.



ITEM	K-ridgeDome A Type	K-ridgeDome B Type		
Size (L*W)	403ר201mm /15.7xØ7.8inch	450ר298mm /17.5xØ11.6inch		
Weight	2.8kg / 6.17 lbs.	5.5kg / 12.1 lbs.		
Inlet Ports	Main 4port	Main 6 port		
Cable Dia.	Main cable : 0.571 ~ 0.649 inch (14.5~16.5mm)/ Optional	Main cable : 0.7 ~ 0.78 inch (18 ~ 20mm) / Optional		
No. of Splice Tray	Max. 6EA	Max. 8EA		
Tray Capacity 24C (Max. 144C) Ribbon 432		36C (Max. 288C) Ribbon 864		
Application Direct Bury, Pole/Wall, Aerial, Below Grade		Direct Bury, Pole/Wall, Aerial, Below Grade		



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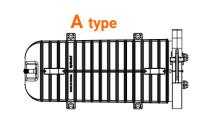


Configuration

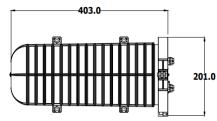
- •The ribbed body has high mechanical strength against impact and compression.
- •Reduction of the working time and the safety by using just catch clips.
- •Great quantity of fiber optic cable make an excellent environment performance

Reliability

The quality of a Fiber optic splice closure is critical to reliable optical transmission performance. The product shall be produced with ISO-9001, TL-9000, ISO-14001 certified production facilities and quality control system is applied the process from product design to packaging.







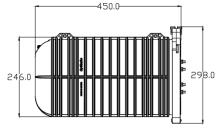


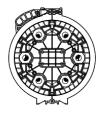
68 IP GRADE

B type

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Configuration

	No.	ITEM
	1	Cover
3	2	Tray Supporter
	3	Splice Tray
	4	SUS band Bracket & T/M
4	5	Base Ass'y
5 6	6	Main Clamp
A - CONT		

Cover

- Ribbed cover for greater impact and compressive strength
- Air valve for air tightness test



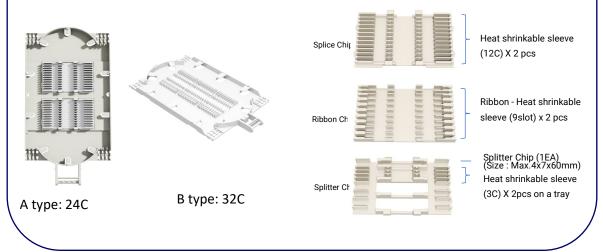
Main Clamp

- One touch combined in the form of robustness of the base and cover
- Ease of use for closure assembly



Splice Tray

- 6 inlet parts in the tray
- · Cable splicing, easy working space and maintenance
- · Double layered storage (Maximum 24 fiber by inserting two sleeves in one slit)



Configuration

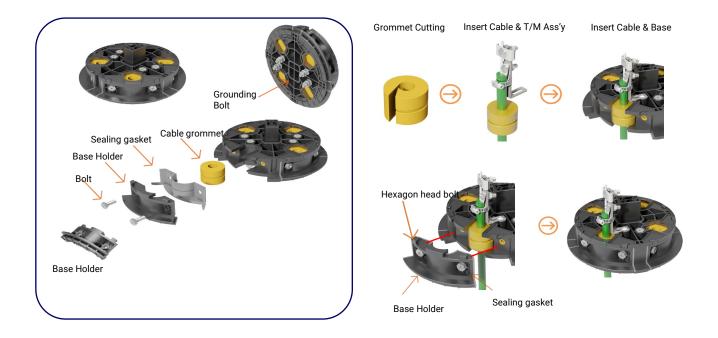
Tray Supporter

- Efficient storage for loose tube in the unit spool.
- Strong fix of the Tray.



Base Ass'y

- 4 inlet ports configuration.
- Sealing gasket made of silicon for proven water tightness.
- Sheath gasket is also designed for mid span branching by simple cutting



Appendix – Test Procedure

TEST PROCEDURE

General

- This section specifies the closure and its material physical, chemical environmental and mechanical requirements and the tests to be applied for the determination of compliance to these requirements.
- Sample means all completed assembling closure that finished bonding, grounding and connecting equipment.
- For all measures of optical attenuation need to splice and for the measures of just a mechanical performance test (no need for optical attenuation test), insert the cable into the Splice closure.
- Optical fiber shall be fusion spliced to minimize effect from test environment and shall be protected by heat shrinkable protection sleeve at the splice point
- · The samples of cable for a performance test shall be prepared with middle size of diameter which is available
- The wavelength for measurement of optical attenuation shall be 1550±30nm or 1310 ±20nm and stability shall be under ±0.01dB
- Test will be completed with temperature 20±5°C if there is no and special regulation

Mechanical characteristics

ITEM	Test Conditions	Requirements
Sheath Retention	 Condition the closure at -20±2°C for 2hrs Mount the closure in a fixture and measure the initial loss Apply an axial load of D/45*100kg After 8hours compare the loss. Repeat the above procedure at 40±2°C. 	No mechanical damage
Cable Flexing	 Condition the closure at -20±2°C for 2hrs Attach a 10kg weight to the cable 1m Lower the cable 90° for 15min. Repeat the procedure while rotating the closure 90°® 720° Repeat the above procedure at 40±2°C. 	No mechanical damage Air Tightness test
Cable Torsion	 The sample completed Cable Flexing Test Condition the closure at -20±2°C for 2 hrs Twist the cable at 25cm point Cycle; CW90°-> CCW180°->CW90° Repeat 10cycles. Repeat the above procedure at 40±2°C. 	No mechanical damage
Vertical Drop	Condition the closure at normal temperature. Raise the closure to a height of 75cm	No mechanical damage
Compression	 Condition the closure at -20±2°C for 2 hr. Measure the diameter or vertical dimension. Apply a weight of 90kg on 50mm' area for 15minutes. Unload a weight and measure the dim. Repeat the above procedure at 40±2°C. 	No mechanical damage
Impact	 Condition the closure at -20±2°C for 2 hr. Impact a closure using a drop-tube from 1m Impact level: 2kg Repeat the above procedure at 40±2°C. 	No mechanical damage
Vibration	 Inner pressure: 6PSI Measure the loss after 2 fiber splicing. Amplitude : 1.0mm(peak to peak) Frequency : 5~55Hz Direction : X (2 hours) 	No greater than ±0.5dB (on test) No greater than ±0.1dB (after test) No mechanical damage

Environmental characteristics

ITEM	Test Conditions	Requirements
Temperature and Humidity	 Measure the loss after 3 fiber splicing. Assemble the closure, Temp. cycle -30~60°C 10Cycle (1cycle is 12hours) 	No greater than $\pm 0.1 \text{dB}$
Chemical resistance	 Inner pressure: 6PSI Solution: pH2 HCL, NaOH, 10% IGEPAL Submerge for 7days into the solution. 	No mechanical damage
Water resistance	 Put the closure into a1.5m depth- water tank for 20days. 	No evidence of water intrusion. (IP 68)

K-ridgeDome type- A (B) #1-#2-#3-#4-#5 XQty ea

Example) K-ridgeDome A-O-S-T4-96C-01102 X 3ea

#1	Installation	#2	Tray	#3	# of Tray	#4	# of Sleeve	#5	Grommet
0	Overhead	s	Splice Chip	T1	1	24C	24	A1501	1 hole
м	Manhole	R	Ribbon Chip	Т2	2	48C	48	A1601	1 hole
w	Wall Mount	т	Splitter Chip	тз	3	72C	72	A1102	2 hole
				T4	4	96C	96	A0804	4 hole
				Т5	5	120C	120	A1507	1+6(7) hole
				тб	6	144C	144		
						168C	168	A0804F	Flat 4hole
				Τ7	7	192C	192	B2001	1 hole
		•		Т8	8		017	B1502	2 hole
		U.				216C	216		
• 6	Grommet – Blank with Fi	ller gromm	type example	al		240C	240	B1104	4 hole
g	prommet type of custom	er's choice	packed			264C	264	B0805	5 hole
						288C	288	B0507	7 hole
		В	type example					с	Customized
1	Installation Hardware								

Installation Hardware







Wall Mount





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Order Information

Grommet Part # - A type

Grommet			••			
Tension Messenger Assembling Accessories	N.		ſ			
Cable Range Inch	0.512 ~0.590 0.570 ~ 0.649		0.315~0.433	0.250 ~ 0.312	0.42 ~ 0.60X6 + 0.125X1	0.320 x 0.180
Cable Range mm	13 ~ 15	14.5~16.5	8~11	6.35~7.9	10.7 ~ 15.2X1 +3.2X6	8.1 x 4.5
Description	1 hole	1 hole	2hole	4hole	7hole	Flat 4hole
Part #	A1501	A1601	A1102	A0804	A1507	A0804F

Grommet Part # - B type

Grommet		••	000	•••	
Tension Messenger Assembling Accessories	La la				the second
Cable Range Inch	0.709 ~0.787	0.512 ~0.590	0.315~0.433	0.250 ~ 0.312	0.19
Cable Range mm	18 ~ 20	13 ~ 15	8~11	6.35~7.9	5
Description	1 hole	2 hole	4 hole	5 hole	7 hole
Part #	B2001	B1502	B1104	B0805	B0507

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