

KOS1000.

Heat Shrinkable Wraparound Pressurised Closure.

Description

The KOS1000 Closure System is designed for use on polyethylene and metal-jacketed pressurised cables. In-line or branched cables configurations are possible up to a maximum of three cables in or out.

It can be employed in ducted, direct-buried or aerial applications and will accommodate cables up to 4800 pairs with any connector type.

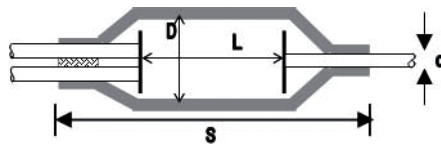


KOS 1000.

Kit of parts for the KOS1000 Kit Pressurised Closure

Heat Shrinkable Sleeve of Kit joint closure, Plus the following :

- 1 Metal canister + Valve body assembly
- 2 Stainless Channel and connector piece (for two channels)
- 3 Grounding wires x 2
- 4 Abrading strip 25mm wide +- 2mm. P40 equivalent grit size
- 5 Aluminum foil (for metal canister) x 2 strips
- 6 Aluminum foil (for cable sheath) 38 micron +- 10 % with minimum dimensions 300 x 100 mm x 2 off or pieces of foil equating to the same overall length. The backing paper needs to easily removed by the joiner. There needs to be a peel off line to achieve this.
- 7 Cleaning tissue x 2
- 8 Silica gel pack
- 9 Roll of black pvc tape
- 10 Branching kits x 2 off. Each kit consists of a branching clip, abrasive strip, adhesive backed foil, cleaning wipe, branching wire and connector and a cable tie
- 11 Craft Paper roll
- 12 Installation instruction sheet Latest October issue 2008



KOS 1000 PRODUCT CODE	Splice Bundle dia. "D"	Cable dia "d"	Max. joint gap "L"	Sleeve Length "S"	Max. Dia. of branch cables			Size of Branch-off clip
					02-Out			
					03-Out			
62/15-350	62	15	350	690	52	40		BOCL-S
62/15-500	62	15	500	850	52	40		BOCL-S
92/30-500	92	30	500	850	82	70	58	BOCL-M
92/30-650	92	30	650	1	82	70	58	BOCL-M
122/38-300	122	38	300	690	112	100	88	BOCL-M
122/38-500	122	38	500	870	112	100	88	BOCL-M
122/38-650	122	38	650	1.02	112	130	88	BOCL-M
160/55-300	160	55	300	790	142	130	118	BOCL-L
160/55-500	160	55	500	970	142	130	118	BOCL-L
160/55-650	160	55	650	105	142	130	118	BOCL-L
200/65-500	200	65	500	970	172	160	148	BOCL-L
200/65-720	200	65	720	115	172	160	148	BOCL-L

KOS 1000 Product code	Description & EIRCOM Code	Splice Bundle dia. "D"	Cable dia. "d"	Max. joint gap "L"	Sleeve length "S"	Max. Dia. of branch cables			Size of Branch-off clip
						02-Out			
						03-Out			
62/15-350	Kit Closure Press n°1 Item N° 5543283	62	15	350	670	52	40		BOCL-S
62/15-500	Kit Closure Press n°2 Item N° 5543284	62	15	500	850	52	40		BOCL-S
62/15-650	Kit Closure Press n°3 Item N° 5543285	62	15	650	1000	52	40		BOCL-S
92/30-350	Kit Closure Press n°4 Item N° 5543286	92	30	350	690	82	70	58	BOCL-M
92/30-500	Kit Closure Press n°5 Item N° 5543287	92	30	500	850	82	70	58	BOCL-M
92/30-650	Kit Closure Press n°6 Item N° 5543288	92	30	650	1000	82	70	58	BOCL-M
122/38-500	Kit Closure Press n°8 Item N° 5543290	122	38	500	870	112	100	88	BOCL-M
122/38-650	Kit Closure Press n°9 Item N° 5543291	122	38	650	1020	112	100	88	BOCL-M
160/55-300	Kit Closure Press n°11 Item N° 5543293	160	55	300	790	142	130	118	BOCL-L
160/55-500	Kit Closure Press n°12 Item N° 5543294	160	55	500	970	142	130	118	BOCL-L
160/55-720	Kit Closure Press n°13 Item N° 5543421	160	55	720	1150	142	130	118	BOCL-L
160/55-900	Kit Closure Press n°14 Item N° 5543422	160	55	900	1380	142	130	118	BOCL-L
200/65-720	Kit Closure Press n°15 Item N° 5543423	200	65	720	1150	172	160	148	BOCL-L
200/65-900	Kit Closure Press n°16 Item N° 5543424	200	65	900	1380	172	160	148	BOCL-L

TEST REPORT

1. THE SPECIAL QUALITY OF HEAT SHRINKABLE CLOSURE'S MATERIAL (EXCEPT ADHESIVE)

No.	Checking Item	Test condition	Requirements of the Standard	Checking Result
1	Breakage limit	- Test temp. : $23 \pm 2^{\circ}\text{C}$, relative humidity :50+5% - Deciding with the 3 tests average values	Min 300 kg/cm ²	530 kg/cm ²
2	Breakage limit of hot-resistant	- Test after keeping it in $150 + 2^{\circ}\text{C}$ for 168hours	Min 300 kg/cm ²	429 kg/cm ²
3	Corrosion test	- Keep it in the oil tub of glycerine (-120°C) or more than it for 16hours	No corrosion	No corrosion
4	Containing carbon test	Keep the piece in $23 + 2^{\circ}\text{C}$. relative humidity : $50 \pm 5\%$ for 3hours before the test	2.6+0.25%	2.60%
5	Resistance & Breakage limit for chemical material test	- NaSO ₄ : 0.1N, NaOH : 0.1N - H ₂ SO ₄ : 0.1 N. NaCl : 0.1N, PETROLEUM - Steeping hour : 24 ± 1 - Steeping temp. : $23 \pm 1^{\circ}\text{C}$	Min 300 kg/cm ²	Min 422 kg/cm ²
6	Tearing test	Testing temp.: $175 \pm 2^{\circ}\text{C}$	Pass	Pass

2. THE SPECIAL QUALITY OF HEAT SHRINKABLE CLOSURE'S ADHESIVE

No.	Checking Item	Test condition	Requirements of the Standard	Checking Result
7	Adhesive strength test of PE outer cover	- Before 24hours: $23 + 2^{\circ}\text{C}$ - Testing temp. : 60°C	Min 15Kg/25mm	42Kg/25mm
8	Adhesive strength test after steeping	- Steeping in $23 \pm 2^{\circ}\text{C}$ for 168hours - Testing temp : 60°C	Min 15Kg/25mm	38Kg/25mm
9	Adhesive strength test after changed temp.	- Term 1 (8hours). Keep- 40°C for 2.5hours - Change -40°C to 60°C for 1.5hours - Keep 60°C for 1.5hours - Change 60°C to -40°C for 1.5hours - Total terms : terms 14, - Testing temp. : 60°C	Min 15Kg/25mm	25Kg/25mm
10	Adhesive strength test after steeping it in chemical material	- NaSO ₄ : 0.1 N, - NaOH: 0.1N - H ₂ SO ₄ : 0.1N. - NaCl: 0.1N. - PETROLEUM - Steeping hour: 24 ± 1 hour. - Steeping temp.: $23 + 1^{\circ}\text{C}$	Min 15Kg/25mm	26Kg/25mm
11	Attaching and taking each other off test	- Keep the test material in $23 + 2^{\circ}\text{C}$ - Test after keeping it at the 60°C oven for 20 minutes	Min 8Kg/cm ²	30Kg/cm ²
12	Corrosion test	- Keep it in the oil tub of glycerine (120°C) or more than it for 16hours	No corrosion	No corrosion
13	Water absorption test	- Drying the test material at $50 \pm 2^{\circ}\text{C}$ for 24+1 hours - Steeping it in distilled water at $23 \pm 0.5^{\circ}\text{C}$ for 24 ± 1 hours	Max under 0.5%	0.40%
14	Softening point test	- Locate metal ball in the middle of test material's surface - Wetting speed is 500-700rpm - Make the temperature of glycerine go up at $5 + 0.5^{\circ}\text{C}$ per minute and heating	100- 120°C	107°C

3. CONDITION OF CIRCUMSTANCES

No.	Checking Item	Test condition	Requirements of the Standard	Checking Result
15	Test of imitative carrying out		Must be right	Normal
16	Air tight test	- Steeping it in water tube at room temperature (23±2°C) for 15 minutes - Air pressure is 14 PSI(PB type : 20PSI)	Keep the air tight (no leakage of air)	Normal
17	Changing temp. test	- Period I(8hours) - Keep -40°C for 2.5hours - Change -40°C to 60°C for 1.5hours - Keep 60°C for 2.5hours - Change 60°C to -40°C for 1.5hours - Air pressure of inside : 10±0,3psi - Total terms : 50	Keep the air tight (no leakage of air)	Normal
18	Axial tension test	- Testing temp: -5°C and 45°C - Testing time : 24hours - Tightening power : D/45 * 100±lkg - Keeping 10+0.3psi during test - Type PB is lightened with power of 80kg, at 23±2°C for 30 minutes - Excepted type v	Keep the air tight (no leakage of air)	Normal
19	Flexure test	- Testing temp. : -5 °C and 45°C - Period 1 : 50kg in maximum, keeping it at 30° and -30° for 5 minutes - Type KOS1000, KOS550 : 5 periods - Type PB (outer diameter of cable: under 50mm): Test for 2 periods at room temp.5°C -Keep 10±0.3PSI	Keep the air tight (no leakage of air)	Normal
20	Heat-resisting and keeping air pressure test	- Testing temp. : 60+2°C, - Air pressure : 10±0.3psi - Testing time : for 30 days - Test KOS1000, KOS550 only, except others	No coming off and keep the air tight (no leakage of air)	Normal
21	Twisting test	- Testing temp. : -5°C and 45°C - Period 1: max. twisting power is 5kg m, keeping it at right and left ±90 for 5 minutes - Test for 5 periods - Keep 10±0.3psi during the test	Keep the air tight (no leakage of air)	Normal
22	Pressing test	- Testing temp.: -5°C and 45°C, - Air pressure : 10±0.3PSI - After pressing at the middle of it with 100+lkg for 5 minutes, and turn it 180 degree	Keep the air tight (no leakage of air)	Normal
23	Resistance for chemical corrosion	- Group 1 : steeping it in HCl water with ph=2 - Group 2 : steeping it in NaOH water with ph=12 - Group 3 : steeping it in 10% igepal water - Testing time : 120hours - Air pressure : 10±0.3psi	No crack and keep the air tight (no leakage of air)	No crack, normal
24	Vibration test	- Testing time : for 10 days, - Vibration period : 10hz - Shaking width : 3mm (max. and min : 6mm) - Air pressure : 10±0.3psi - Testing temp:23±0.2°C	Keep the air tight (no leakage of air)	Normal
25	Keeping air pressure test	- Testing at room temp. : 23 ±0.2°C - Testing time : for 28 days - Air pressure : keeping 30+0.3psi	No coming off and keep the air tight (no leakage of air)	Normal
26	Impact test	- Testing temp.: keeping it -5°C and 45°C for 4 hours before the test - Take it out at testing temp. And test it within 30seconds - Use an iron ball of 1000± 1g from a high of 2m. - Air pressure : keeping 10±0.3psi	No coming off and keep the air tight (no leakage of air)	Normal