

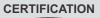


Sales Leaflet No. 023

> **Nov** 2015



SUPPLIED COMPLETE WITH BUILT-IN GLANDS





Ex e/n ALUMINIUM ALLOY JUNCTION BOX I.A. No. S/15-0578X Ex e II T6 Ex n A II T6 Ex tD IIIC T6 IP68 (2m-cont.) SANS: 60079-0 / 60079-7 60079-15 / 61241 & SANS 60529 Zone 1, 2, 20, 21 & 22

> ALUMINIUM ALLOY JUNCTION BOX I.A. No. SABS 5/05-014X IP66/68 (2m-cont.) DIP B20 TA T6 SANS 60529 & 61241 Zone 1, 2, 20, 21 & 22

ALUMINIUM ALLOY TUNNEL BOX

SPECIAL CERTIFICATION FOR FIRE SURVIVAL OF ELECTRICAL EQUIPMENT
IP68 SHBS APPROVED BS6387
•TEST REPORT Nº FPE/85066/09

FEATURES & BENEFITS

- Unique built-in glands.
- For use with armoured cable.
- Easily convertible for unarmoured cable.
- For all surface applications*.
- Lightweight and impact resistant.
- Epoxy coated for corrosion resistance.
- Range of configurations & sizes.
- Internal and external earthing boss/lug.
- Accessories for a wide range of uses.
- Tunnel Boxes are specially designed and certified for use in tunnels where fire & smoke considerations are paramount (with special silicone shrouds).

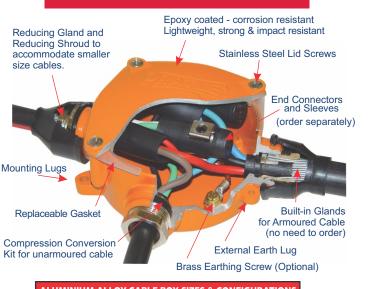
*Not to be buried underground



Sales Leaflet No. 023

Nov 2015

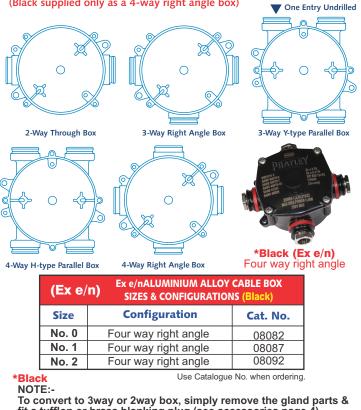
PRATLEY ALUMINIUM ALLOY CABLE BOX CONFIGURATIONS & SIZES



ALUMINIUM ALLOY CABLE BOX SIZES & CONFIGURATIONS (Orange)					
Size	Configuration	Cat. No.			
No. 0	Two way through box Three way right angle Four way right angle	08041 08042 08043			
No. 1	Two way through box Three way right angle Four way right angle	08044 08045 08046			
No. 1	Three way Y-type parallel Four way H-type parallel	09056 09057			
No. 2	Two way through box Three way right angle Four way right angle	08047 08048 08049			

Use Catalogue No. when ordering.

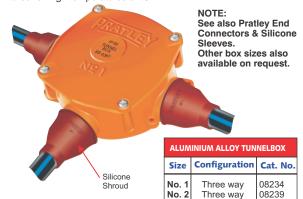
All boxes are supplied standard with built-in glands for SWA cable. Available in three sizes, No 0, 1 and 2, which will accommodate cables from 1.5 mm x 2 core to 16 mm x 4 core. Each size is available in a Two way through box, Three way right angle box and a Four way right angle box. In addition the No. 1 box is available in a Three way Y-type parallel and Four way H-type parallel entry configuration. (Black supplied only as a 4-way right angle box)



fit a tufflon or brass blanking plug (see accessories page 4). All boxes are supplied standard with built-in glands for SWA cable.

PRATLEY ALUMINIUM TUNNEL CABLE BOX

BS6387 compliant. These boxes are specially designed & certified for use in tunnels where fire and smoke considerations are paramount. They are supplied with special silicone shrouds manufactured for high temperatures & LSF.



ARMOURED CABLE SELECTION CHART

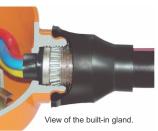
This chart shows the maximum cable bedding diameter for each size of Cable Box.

NOTE: All Cable sizes marked* require the bedding to be measured, as the bedding diameters are close to the Gland bore size and the next larger size Cable Box may be required.

SWA/PVC CABLE BOX SELECTION CHART					
Cable Size	No. of Cores	Box Size	Max. Bedding Dia.		
1.5 mm ²	2, 3, 4, 5	0	12.6 mm		
	7	1 15.7 mm			
	12	2	20.4 mm		
2.5 mm ²	2, 3	0	12.6 mm		
	4*	0 or 1	12.6/15.7 mm		
	5, 7	1	15.7 mm		
	12	2	20.4 mm		
4.0 mm ²	2*	0 or 1	12.6/15.7 mm		
	3, 4, 5	1	15.7 mm		
	7	2	20.4 mm		
6.0 mm ²	2, 3	1	15.7 mm		
	4, 5, 7	2	20.4 mm		
10.0 mm ²	2*	1 or 2	15.7/20.4 mm		
	3, 4	2	20.4 mm		
16.0 mm ²	2, 3, 4*	2	20.4 mm		

UNIQUE BUILT-IN GLAND FOR CONVENIENCE

The Cable Boxes are supplied complete with Built-in Cable Glands for SWA/PVC Cables, which means that additional glands need not be purchased The built-in glands will maintain IP68 rating against the ingress of water and dust. These glands can be easily converted for use with unarmoured cable (see accessories on Page 4).



EASE OF ELECTRICAL CONNECTION

The connection of the conductors can be achieved by either making use of Pratley Kwikbloks[®] mounted on a N35 "Tophat" rail or Pratley End Connectors and Insulating Sleeves. When making use of the End connectors, the conductors can be left long, so that the connection can be easily done outside the box and then folded back inside.



The Aluminium Alloy Junction Box allows work to be done outside the confines of the box.

FACTORY FITTED TO CUSTOMERS SPECIFICATIONS

Junction boxes (both Ex e & Standard) can be factory fitted with a N35 mounting rail and Pratley Kwikbloks® to the customer's requirement. See chart below for number of Pratley Kwikbloks®per cable box. The built-in glands can be factory fitted with Reducing Glands and Shrouds or with Compression Conversion Kits for unarmoured cable. (See accessories overleaf). Pre cut lengths of cable can also be factory fitted.



NUMBER OF PRATLEY KWIKBLOKS [®] PER CABLE BOX								
Box Size	IK 750/8 27 0.5 - 4	300V	IK5 750/800V 36A 0.5 - 6 mm ²		IK10 750/800V 67A 0.5 - 10 mm²		IK16 750/800V 87A 0.5 - 16 mm²	
	Max.	Prac.	Max.	Prac.	Max.	Prac.	Max.	Prac.
0	8	8	6	5	N/A	N/A	N/A	N/A
1	11	10	9	8	6	6	N/A	N/A
2	17	16	14	14	10	8	8	8

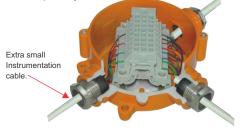
Max .: Number of Kwikbloks® that can be fitted

Prac.: Practical number of Kwikbloks® to be fitted (Recommended).

ALUMINIUM ALLOY No.0 INSTRUMENTATION CABLE BOX

For use when terminating extra small (Xs) diameter unarmoured instrumentation cables. Supplied complete with built-in Xs Conversion Kits for 3 mm to 6 mm diameter unarmoured cables.

NOTE: Kwikbloks® and mounting rail for Kwikbloks® must be ordered separately



PRATLEY INSTRUMENTATION CABLE BOX						
Size	Configuration	Cat. No.	Usual pack Qty.			
0	Two way through box	08050	1			
	Three way right angle	08051	1			
	Four way right angle	08052	1			

Use Catalogue Number when ordering.

ALUMINIUM ALLOY CONDUIT BOXES

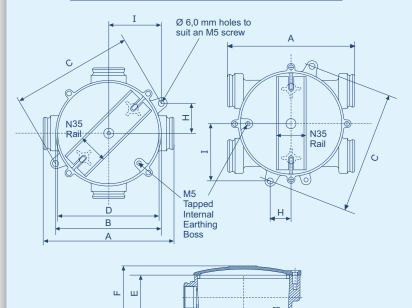
These boxes accept 20 mm Conduit directly. Shrouds are not required.



PRATLEY ALUMINIUM ALLOY CONDUIT BOX						
Size	Configuration Cat. No. Usual pack Qty.					
0	Two way through box	07038	1			
	Three way right angle	07039	1			
	Four way right angle	07040	1			
Lice Catalogue Number when ordering						

Use Catalogue Number when ordering.

DIMENSIONS & SPECIFICATIONS



	DIMEN	SIONS				
Box Number	No. 0	No. 1	No. 2	No. 1 PE		
A Over 2 Entries	117.0 mm	131.5 mm	168.0 mm	129.5 mm		
B Outer Diameter of Box	87.5 mm	105.5 mm	133.0 mm	107.0 mm		
C Lug Centres	98.5 mm	124.0 mm	147.3 mm	124.0 mm		
D Inner Diameter of Box	83.4 mm	101.0 mm	128.0 mm	102.5 mm		
E Internal Depth	41.7 mm	45.0 mm	54.0 mm	45.0 mm		
F Overall Height	54.0 mm	58.6 mm	71.5 mm	58.6 mm		

SPECIFICATION GUIDE (Standard Box)

M20 x 1.5P

24.63

42.65

The Junction box must be:

G Entry Thead

H Lug Co-ordinates

I Lug Co-ordinates

Be suitable for use in DIP Zone 21 and 22 hazardous locations, according to SANS(IEC) 1. 61241-1-1

M20 x 1.5P

31.0

53.7

M32 x 1.5P

36.8

63.8

- 2. Carry the SABS mark and be IP68 rated in accordance with SANS(IEC) 60529.
- 3. Be made from aluminium alloy, epoxy coated with provision for the fitting of N35 rail mounted connectors.
- 4. Be supplied with built-in, inner-sealed cable glands for SWA cable, which can be converted for use with unarmoured cable as well.
- 5. Be provided with an internal earth boss and an external earth lug.
- 6. Have a lid with a replaceable lid gasket and captively held stainless steel screws.

SPECIFICATION GUIDE (Ex e/n Box)

The Junction box must be:

- 1. Be black colour and suitable for use per SANS (IEC) 61241-1-1 / 60079-0 / 60079-7 & 60079-15 in zone 1, 2, 20, 21 & 22 areas with red Ex Id Bands on all entries.
- 2. Use the same clauses 3 to 6 above.
- *NOTE: Specifiers may use this wording to specify the Pratley Aluminium Alloy Junction Box.

PACKAGING DATA

All Cable Boxes are packed in a cardboard pack, which is then packed into a cardboard shipping carton.

Box Size	Pack Dimensions	Weight (g)	Volume (m ³)
No. 0 x 2 way	108 x 108 x 56 mm	336	0.00065
No. 0 x 3 way	108 x 108 x 56 mm	374	0.00065
No. 0 x 4 way	108 x 108 x 56 mm	406	0.00065
No. 1 x 2 way	128 x 137 x 59 mm	474	0.00093
No. 1 x 3 way	128 x 137 x 59 mm	518	0.00093
No. 1 x 4 way	128 x 137 x 59 mm	592	0.00093
No.1 x 3 way Y-type parallel	128 x 145 x 59 mm	592	0.00093
No.1 x 4 way H-type parallel	128 x 145 x 59 mm	592	0.00093
No. 2 x 2 way	150 x 150 x 72 mm	810	0.00135
No. 2 x 3 way	150 x 150 x 72 mm	888	0.00135
No. 2 x 4 way	150 x 150 x 72 mm	978	0.00135

3

M25 x 1.5P

16.0

60.0

ACCESSORIES

Refer to the following Sales Leaflets for further detailed information on: Pratley Kwikbloks - Sales Leaflet No. 061



Pratley (Pty) Limited (Reg. No. 1996/003890/07) An Affiliate of the Pratley Group of Companies Jackson Street • Factoria • Krugersdorp • Gauteng - Telephone +27 11 955 2190/8 • Fax +27 11 955 3918 PO Box 3055, Kenmare 1745 • Gauteng • South Africa - www.pratleyelectrical.com

Box.

applications)