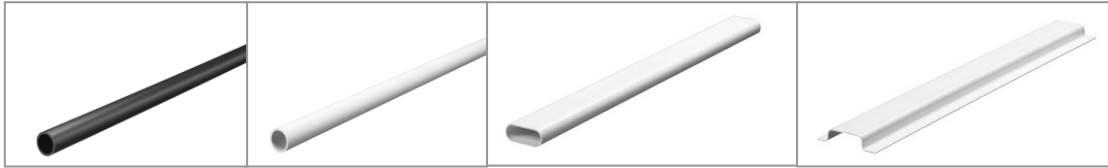


## ROCM Technical data - Conduits



### Product Specification

#### AUTHORITY

Products are manufactured to comply with the requirements of British Standard BS 4678: Part 4 (where applicable). All systems allow the installer to comply with the current edition of the IEE Regulations. All Mita products are supplied in accordance with the stated requirements of CE marking, introduced in 1997.

#### DESCRIPTION

##### Composition

Moulded and extruded products within the Mita range are manufactured from high impact, self-extinguishing rigid uPVC.

PVC compound used by Mita in the manufacture of conduits and trunking are composed of Polyvinyl Chloride, with no added organic plasticisers. It is based on a Calcium/Zinc stabiliser and the only other major constituents are inert fillers and pigments. All PVC compounds are fully ROHSS compliant.

PVC is a self-extinguishing material, i.e. it will burn when there is an outside source of combustion, but if the source of combustion is removed or extinguished then the PVC will self-extinguish and will not continue to burn. PVC compounds used by Mita meet the self-extinguishing requirements of British Standards BS6099 and BS4678, and European Standards EN 50085 and EN 50086. The PVC compound used complies with the American Underwriters Laboratory Standard for Safety UL 94, Class V-0.

#### PERFORMANCE

Typical properties of rigid PVC are:

##### SPECIFIC GRAVITY (Density)

1.35-1.47

##### THERMAL EXPANSION

6x10<sup>-5</sup> °C. This is approximately equivalent to an expansion of 2mm on a 3 metre length for a temperature rise of 10°C.

##### WATER ABSORPTION

Negligible

##### CHEMICAL RESISTANCE

Mineral Acids – Excellent

Detergents – Excellent

Alcohols – Fairly Good but liable to attack from other solvents such as ketones, aromatics and hydrocarbons.

##### UV STABILITY

Rigid PVC products supplied within the Mita range all have high levels of U.V. stability built in them, this is due to the formulation of the polymer and the process methods utilised during the production processes.

##### MAINTENANCE

To be wiped clean with a damp cloth only.

##### TEMPERATURE RANGE

Permanent application temperature range: -5° C to +60° C

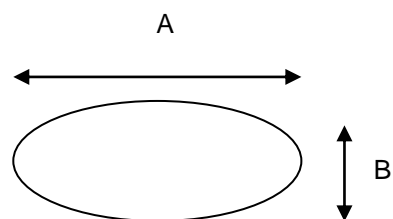
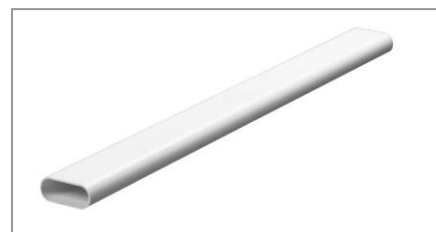
##### INSULATION RESISTANCE

> 100 MΩ

## Oval Conduit

### Nominal sizes

Product	Size (A x B)	Wall Thickness (mm)
OVL12	13.0 x 8.0mm	0.7 to 0.9
OVL16	16.2 x 9.8mm	0.7 to 0.9
OVL20	24.0 x 11.4mm	0.7 to 0.9
OVL225 (POA)	23.5 x 13.5mm	0.7 to 0.9
OVL25	28.0 x 11.2mm	0.9 to 1.1
OVL32	32.5 x 12.0mm	0.9 to 1.1
OVL38	38.0 x 16.0mm	1.2 to 1.4



All dimensions are approximate and are subject to slight variation during manufacturing.

## Channel

### Nominal Sizes

Product	Dimension	Wall Thickness (mm)
CHN12	31mm	0.7 to 0.9
CHN25	47mm	0.4 to 0.7
CHN38	62mm	0.7 to 0.9



## Conduit and Fittings



Round Rigid Conduit - Nominal Dimensions (\*NB Some part codes are poa)

PRODUCTS	MINIMUM O.D.	MAXIMUM O.D.	WALL THICKNESS	IDEAL O.D.
RLG16*	15.7 mm	16.0 mm	1.1 mm	15.8 - 15.9 mm
RNG16*	15.7 mm	16.0 mm	1.7 mm	15.8 - 15.9 mm
RLG20	19.7 mm	20.0 mm	1.1 mm	19.8 - 19.9 mm
RNG20	19.7 mm	20.0 mm	1.8 mm	19.8 - 19.9 mm
RLG25	24.6 mm	25.0 mm	1.5 mm	24.8 - 24.9 mm
RNG25	24.6 mm	25.0 mm	1.9 mm	24.8 - 24.9 mm
RLG32*	31.6 mm	32.0 mm	1.5 mm	31.7 - 31.9 mm
RNG32	31.6 mm	32.0 mm	2.5** mm	31.7 - 31.9 mm
RLG38*	37.6 mm	38.0 mm	1.5 mm	37.7 - 37.9 mm
RNG38*	37.6 mm	38.0 mm	2.5* mm	37.7 - 37.9 mm
RLG50*	49.5 mm	50.0 mm	1.8* mm	49.7 - 49.9 mm
REG50*	49.5 mm	50.0 mm	2.2* mm	49.7 - 49.9 mm
RNG50*	49.5 mm	50.0 mm	3.0* mm	49.7 - 49.9 mm

Tolerance on wall thickness: Preferably  $\pm 0.05$  mms, allowable  $\pm 0.10$  mms.  
 Except those products marked with \*\*: preferably  $\pm 0.10$  mms, allowable  $\pm 0.15$  mms.

### Spacer Bar Saddles – SBS\*\*\*

Fixing centre = 38mm



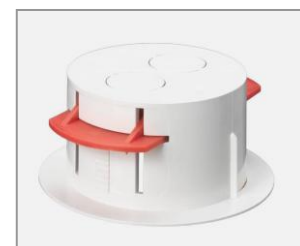
### Lids – LID\*\*

LID1W/B take M4x10mm screws



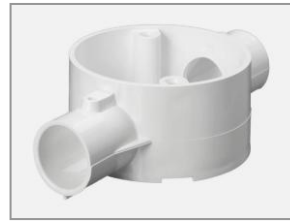
### Conduit fed Ceiling Rose Box – CRB2W

Depth = approx. 35mm  
 Fixing centre = 50.8mm  
 Overall diameter = 67mm  
 Uses M3.5 x 30mm screws  
 2 x 20mm round knockouts in base  
 Maximum weight support is 4kg at 60°C



## Circular Junction Boxes (\*\*CJB\*\*s)

Outside diameter = 66mm
Depth = 33mm
Fixing centre = 50.8mm
PVC thickness = 2mm
M4 brass threads



### CJB boxes for use with Suspended Accessories

Maximum load is 3kg at a temperature that will not exceed 60°C.

The box itself should be securely fixed to the sub base with c/s wood screws through the two ports in the back of the box – one screw in the centre is **NOT** recommended.

Fittings should be attached to the box using suitable cheese-head or pan-head M4 screws – they must not be over-tightened.

Where fitting fluorescent fittings, it is strongly recommended that fixing is made to **two** CJB boxes (one at either end of the fitting) and for security SIC1 steel insert clips should be used.

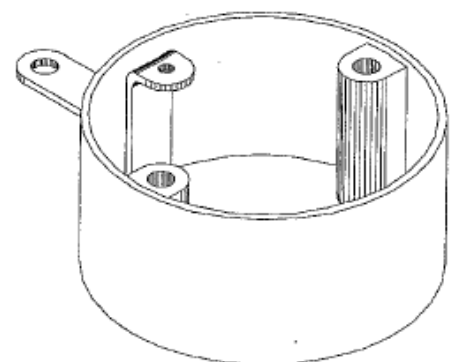
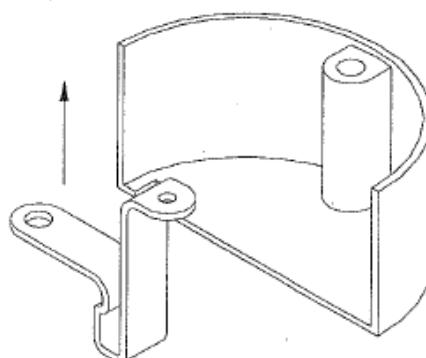
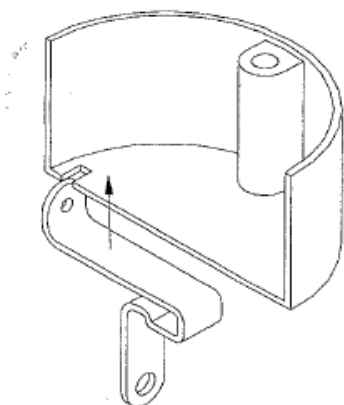
Most of the fittings weigh well in excess of 3kg and fixing these to only one box in the central position can lead to overloading. It is also an unbalanced load that can lead to even earlier failure.

### **To summarise:**

For fluorescent fittings, always fix **two** CJB boxes and preferably use SIC1 clips for all but the lightest single tube units.

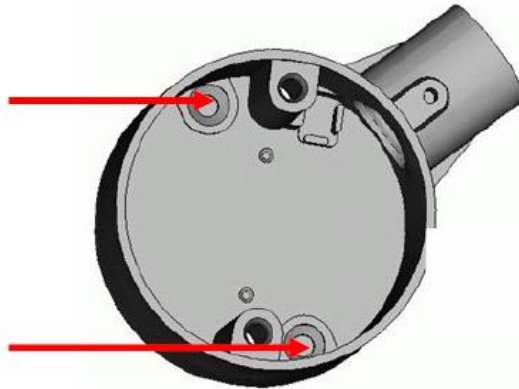
### How to Fit the SIC1 Clip

1. Punch out the knockout
2. Insert the clip as shown in first drawing
3. Rotate through 90° and push up
4. Completed item should look like final drawing



## Recommended Fixing Points for Mita Circular Junction Boxes (CJBs)

Install junction box using the two fixing points as shown.



### Draw Tapes Nylon

Approx 4mm thick  
Brass ferrule at leading end 5.6mm



### Insulation Sleeving

Voltage Rating 2KVolts



### ADH25 PVC Solvent Weld Adhesive

Spillages – If ADH25 is spilt on carpets, be careful not to spread, scrape up as much as possible. Open doors and windows to release the fumes. Do not mop.

To attempt to remove dried spillages – the only suitable substance is Methylene Chloride, although we must stress it is unlikely to completely remove spill from carpet. There is also no guarantee that this won't damage any rubber backing, plastic backing or synthetic colours. Any cleaning with Methylene Chloride should be carried out in a well ventilated room. User must adopt the same safety precautions as when using ADH25 itself.

Can you use ADH25 on water pipes?

- uPVC – yes
- PVC – no
- Polypropylene - no



## Surface Mounted Boxes - Knockouts

32mm and 44mm boxes have 25mm oval and 25mm round knockouts in the base for back entry

Knockout boxes (KB\*\*\*\*\*) have an additional 20mm conduit entry on one side (top/bottom)



## Conduit Bends

Minimum bend radii

RLG20 – 65mm min bend radius

RLG25 – 90mm min bend radius

Manufactured bends are to the minimum bend radius for each size



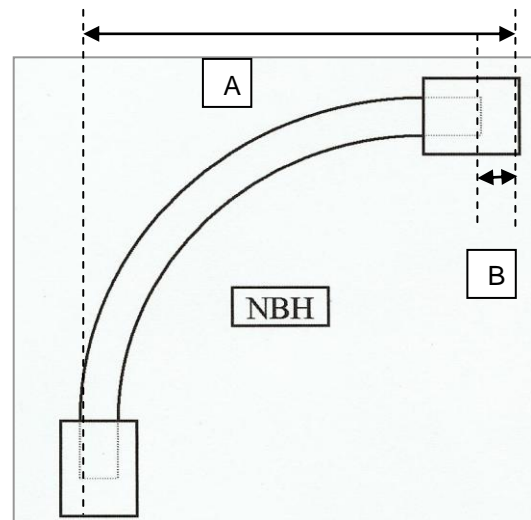
PIE20 – 5mm bend radius



NBH20

Distance from elbow to end of coupling = 147mm (A)

Allowance should be made for the insertion of conduit into the coupling of approx 20mm (B)



PIB20

Distance from elbow to end of conduit = 90mm

