

ENSURE TOTAL PROTECTION TO YOUR WIRES & CABLES



AKG
Dr. A.K Garg Group of Companies

Rigid PVC conduits & fittings for Electrical Installations

Salient Features

- Adaptable to standard concealed wiring system as per IS: & BS:
- Virgin suspension grade K-67 PVC.
- Processed on twin screws extruders.
- Minimum filler ensures high impact strength.
- Unplasticised PVC Formulation to Improve the mechanical strength.
- UV stabilised.

IS:9537



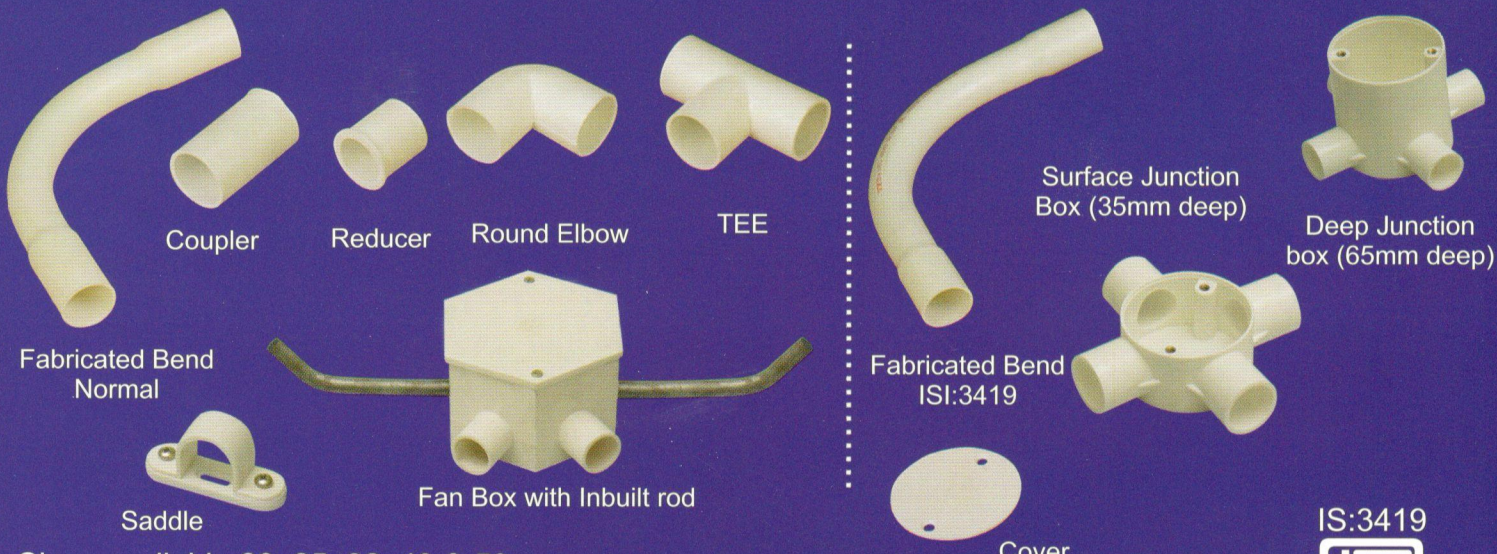
Part-3-1983
CM/L-3035337



Low Halogen SFT (FRLS) Rigid PVC Conduits

- **Flame Retardant & Temperature Stable** (No Propagation of flame & thermal stability more than 60 minutes at 200°C)
- **Halogen Free (Non-Toxic)** Hydrochloric Acid contents less than 19%, Oxygen index more than 29%
- **Smoke free/very low smoke** Smoke density rating less than 60%

Sizes available : 20mm, 25mm, 32mm, 40mm, 50mm, & 63mm
Mechanical strength : Light (LMS) Medium (MMS) & Heavy (HMS)
Colors : Ivory, Grey, & Black



Sizes available 20, 25, 32, 40 & 50 mm

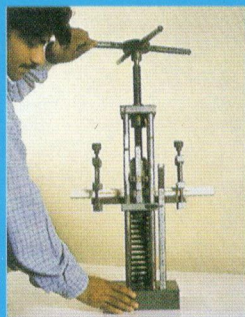
Surface & deep Junction box in one way, two way, three way, & four way configuration

All Junction boxes are provided with brass inserts & covers

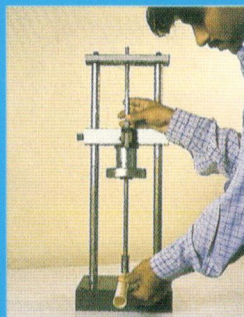
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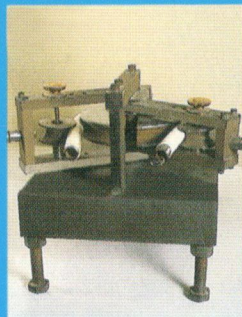
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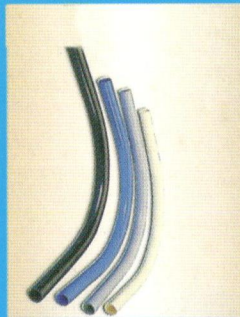
Compression Test for Testing mechanical strength



Impact Test



Bend Test at Low Temp. & at Room Temp.



Conduit Samples after Bend Test

Mechanical Properties

- Percentage of Compression with specified load less than 25%
- Percentage of Compression without load less than 10%
- High Impact Strength
- Tensile Strength - 390-420 Kg./cm²

Electrical Properties

- Dielectrical Strength = 36 Kv/mm
- Specific resistance = 6.1×10^{14} ohm cm
- Electric Strength = No breakdown at 2 Kv x 50 hz. for 15 minutes

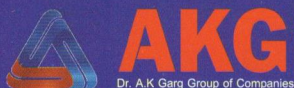
Thermal Properties

- Working Temp. = 70^oc
- Burning rate = Self Extinguishing
- Flammability = UL94V-0
- Flame Die out Time = Less than 30 seconds



Dimensions

S. No.	Nominal Size (in mm)	Maximum O.D. (in mm)	Minimum O.D. (in mm)	Minimum Internal Diameter		
				Light Mechanical Strength (in mm)	Medium Mechanical Strength (in mm)	Heavy Mechanical Strength (in mm)
1.	20	20	19.70	17.40	16.90	15.80
2.	25	25	24.60	22.10	21.40	20.60
3.	32	32	31.60	28.60	27.80	26.60
4.	40	40	39.60	35.80	35.40	34.40
5.	50	50	49.50	45.10	44.30	43.20
6.	63	63	62.40	57.00	-----	-----



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