

ENSURE TOTAL PROTECTION TO YOUR WIRES & CABLES



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
CML-2114227



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 10%. Oxygen index more than 28%
- 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.

IS-3419



CML - 3021529



Compression Test for Testing mechanical strength



Impact Test



Impact Test at Low Temp. & at Room Temp.



Control Samples after Bend Test

Mechanical Properties

- Percentage of Compression with specified load less than 20%
- Percentage of Compression without load less than 10%
- High Impact Strength
- Tensile Strength - 300-420 Kg/cm²

Electrical Properties

- Dielectrical Strength = 26 Kv/mm
- Specific resistance = 6.1×10^{11} ohm-cm
- Electric Strength = No Breakdown at 2 Kv x 50 Hz. for 15 minutes

Thermal Properties

- Working Temp. = 70°C
- Burning rate = Self Extinguishing
- Flammability = UL94V-0
- Flame Dis out Time = Less than 30 seconds



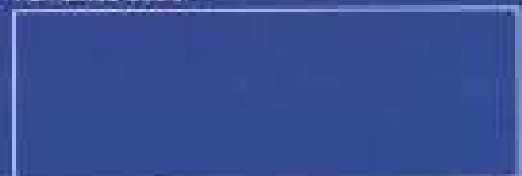
Dimensions

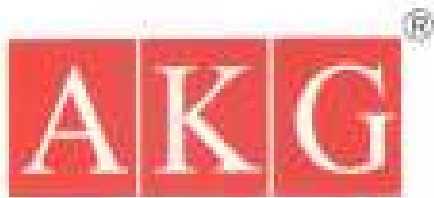
S. No.	Nominal Size (in mm)	Maximum O.D. (in mm)	Minimum O.D. (in mm)	Minimum Internal Diameter		
				Light Mechanical Strength (in mm)	Medium Mechanical Strength (in mm)	Heavy Mechanical Strength (in mm)
1.	20	20	19.70	17.40	16.90	15.80
2.	25	25	24.60	22.10	21.40	20.60
3.	32	32	31.60	28.60	27.60	26.60
4.	40	40	38.60	35.60	35.40	34.40
5.	50	50	48.50	45.10	44.30	43.20
6.	63	63	62.40	57.00	—	—

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Authorized Dealer





Rigid PVC conduits & fittings for Electrical Installations.



IS-9537



Part-3-1983
CML-3035337

Ensure
total
protection
to
your
Wires
&
Cables

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
- Unplasticized PVC Formulation to improve the mechanical strength.
- UV stabilised.

LHSFT*/FRLS* Rigid PVC Conduits

- Halogen Free (Non-Toxic) Hydrochloric Acid Contents less than 1% Oxygen Index more than 29%
- Smoke free/Very low smoke Smoke density rating less than 60%
- Flame Retardant & Temperature Stable (No Propagation of flame & thermal stability more than 60 minutes at 200 C.

* LHSFT: Low Halogen (Halogen Free), Smoke Free, temperature stable

* FRLS: Fire Retardant & Low Smoke (Smoke Free)

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



Size available : 20mm, 25mm, 32mm, 40mm & 50mm
 Surface & deep junction box in one way, two way, three way & four way configuration
 All junction boxes are provided with brass inserts & covers



ISO 9001
 ISO 14001
 OHSAS 18001

TECHNICAL DATA

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
- Electrical Strength = No breakdown at 2 Kv x 50 Hz. for 15 minutes

Thermal Properties

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



Compression Test for testing mechanical strength



Tensile Test



Heat Test at Low Temp. & at High Temp.



Good Sample after Heat Test

S. No	Nominal Size (ø in mm)	Maximum O.D. (ø in mm)	Minimum O.D. (ø in mm)	Minimum Internal Diameter		
				Light Mechanical Strength (ø in mm)	Medium Mechanical Strength (ø in mm)	Heavy Mechanical Strength (ø 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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