

E Right Engineering®



Our Electrical products to your Electrical projects

LIGHTING POLES

JUNCTION BOXES

ELECTRICAL PANELS
CABLE TRAYS

CABLE GLANDS



Right Engineering®

About Us

Right Engineering is the one committed to provide Right Product to Rightly suit your project requirements.

Right Engineering is in the field of Manufacturing and Trading, serving Locally and Globally since 1987.

A respective past, the perfect present and the prospective future taking us a long way growing along with our clients.

We take this opportunity to introduce our company a highly professional in our field of expertise.

Vision

To have sustainable "Overall Growth with paramount client satisfaction" in the services we offer and carve to be a leader in international as well as local market.

Mission

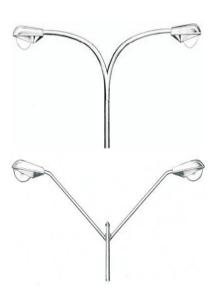
It is our mission to provide international quality product with full commitment to client satisfaction. We efficiently and professionally handle projects to complete it before schedule. We continually improve our skills and develop innovative designs in order to be competitive in current and tomorrow's world.



Right Engineering is pioneer in manufacturing customised street accessories for numerous International and Local projects.

Right Engineering's smart galvanised Octagonal / Polygonal Tapered Poles and Swaged Tubular poles are elegantly manufactured with aesthetic appearance.







Various shapes of brackets namely Double, Single and High Mast with or without raising or lowering system as per the requirement can be manufactured. All our poles have integral Junction Box which is well protected.

We manufacture lighting poles for the following application:

- · Industrial Roads
- Commercial Roads
- · Highways
- · Industrial Building
- Commercial buildings
- · Industrial accommodation campuses
- · Sports Stadiums
- Airports
- Yards
- · Ornamental lighting poles for gardens, parks and city beautification

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OCTAGONAL & POLYGONAL POLES

Octagonal and Polygonal Poles are manufactured as per the Report 7 of International Lighting Engineers.

Material of Construction

Material used to manufacture Octagonal steel poles is as per BSEN 10025 or equivalent of appropriate grade, having yield strength of min. 355N/mm² and Tensile strength of 490 to 630N/mm².

Construction of Octagonal / Polygonal Poles

The column is constructed from Mild Steel plates cut and folded to form Octagonal or Polygonal Section.

Up to 12mtrs the poles are supplied in single section.

Pole above 12mtr. is supplied in minimum of 3 section, telescopic jointed and fillet welded with the exception of site joints.

A door is provided in the base of the pole to have clear access to equipments.

The Base Flange with welded connection to the mast fully develops the strength of the section. In addition, supplementary gussets are provided between foundation bolt holes.





The Mast is delivered to site in sections and joined with stressing equipment, thus forming a sleeve joint.

High Mast poles are supplied with the Lightening Finial of hot dip galvanized heavy duty pipe. A 12mm dia stainless steel stud is attached to the mast structure to provide a lightening and cable earthing point.

High tensile hot dip galvanized holding down bolts are supplied with anchor plates.

Galvanizing

The entire pole is hot dip Galvanized both internally and externally after fabrication in accordance with IS4759/BS729/BSENISO1461 or equivalent.

Mechanical Assemblies

High Mast pole shall have mechanical assemblies consist of top pulley, winch, steel wire rope of grade AISI 316, winch driving power tool (Internal or External), and lantern carriage.

Cables

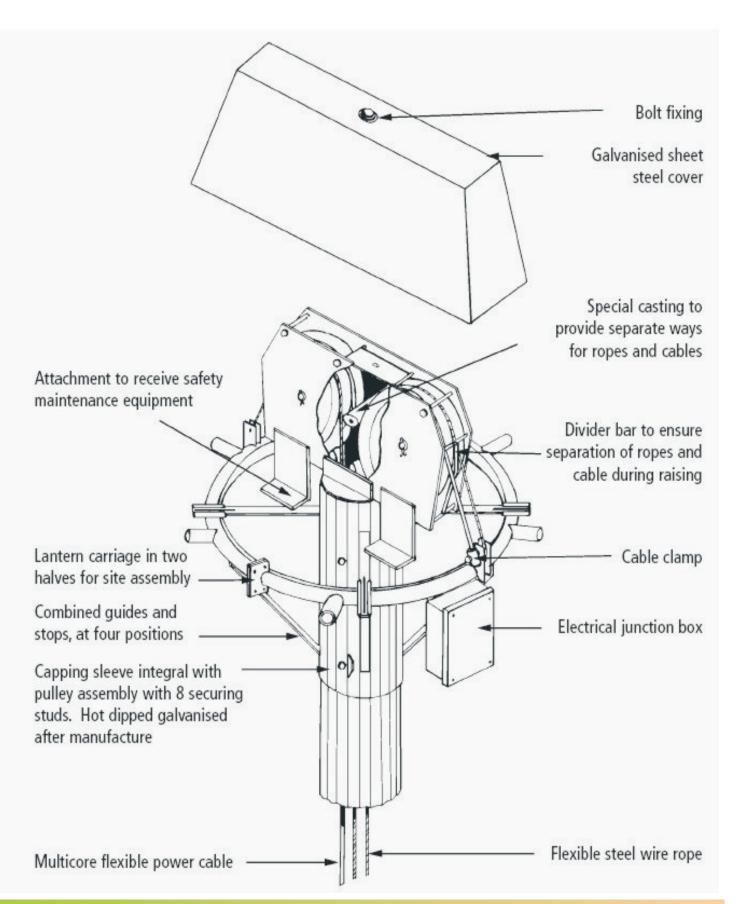
High Mast poles shall have Multi core, flexible, round sheathed power cable, provided with metal cased plug & socket with guard ring terminates in the base compartment. At the mast head cable is connected through suitable PVC gland to weatherproof junction box fitted on lantern ring.

HIGH MAST



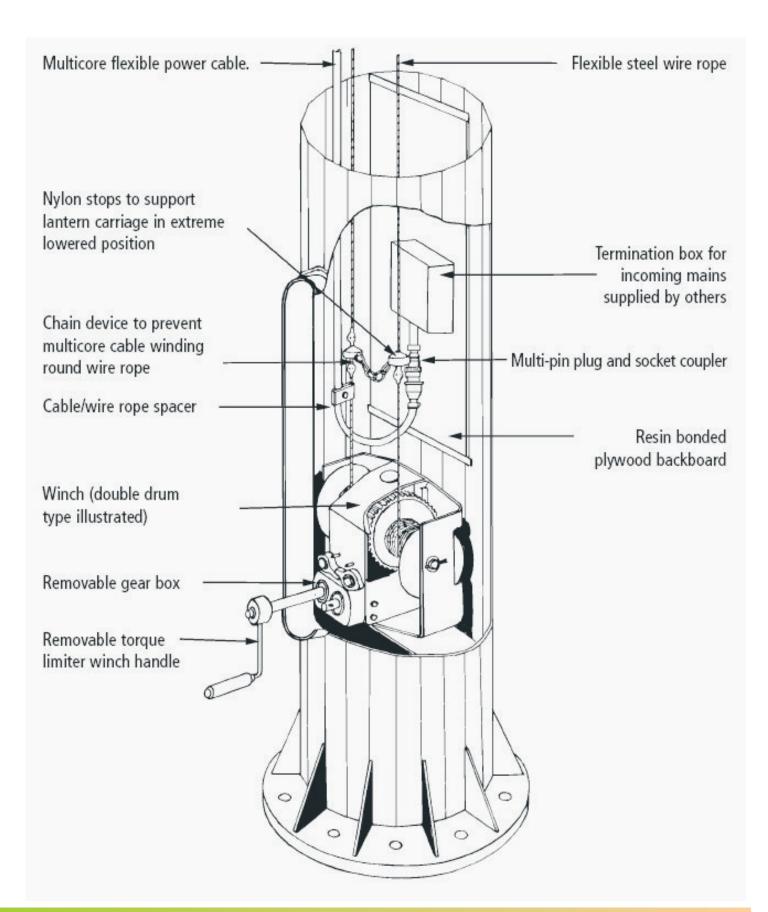


MAST HEAD ASSEMBLY OF HIGH MAST





BASE COMPARTMENT OF HIGH MAST





RE Hot Dip Galvanized Poles Octagonal / Polygonal poles manufacturing Process

- Cutting to length
- Trapezium cutting
- Longitudinal folding in Press
- Longitudinal welding





RE Octagonal Pole Standard Specification

	Top Dia. (A/F) (mm)		a. Dia. (F) (A/F)	Steel Thickness (mm)	Base Plate Dimensions (L x B x T)					
Pole Type		Dia.				Bolt Size (no. x dia.) (mm)	Pitch Circle Dia. (PCD) (mm)	Bolt Length (mm)	Projected Bolt Length (mm)	Anchor Plate Thickness (mm)
REOLP-3730	3	70	130	3	200 x 200 x 12	4 x 16	200	450	80	3
REOLP-4730	4	70	130	3	200 x 200 x 12	4 x 16	200	450	80	3
REOLP-5730	5	70	130	3	200 x 200 x 12	4 x 16	200	600	80	3
REOLP-6730	6	70	130	3	220 x 200 x 12	4 x 20	205	600	100	3
REOLP-7730	7	70	130	3	220 x 200 x 12	4 x 20	205	700	100	3
REOLP-8735	8	70	135	3	225 x 225 x 16	4 x 20	210	750	100	3
REOLP-9755	9	70	155	3	260 x 260 x 16	4 x 24	250	750	125	4
REOLP-1077	10	70	175	3	275 x 275 x 16	4 x 24	270	750	125	4
REOLP-1191	11	90	210	3	300 x 300 x 20	4 x 24	300	750	125	5
REOLP-1294	12	90	240	3	320 x 320 x 20	4 x 24	325	850	125	5



STEPPED TUBULAR POLES



RE Hot Dip Galvanized Tubular Poles manufacturing Process

Tubular steel pipe cutting to length Swagging of tubes

Material of Construction

Mild Steel Tubular Pipes to standard IS 1239 / BS 1387 Tensile Strength of 410 / 540 mpa

Construction of Stepped Tubular Pole

Poles are designed and manufactured to different heights calculating the wind velocity as per IS-875 to suit the site requirements with the proper base and supplied with foundation bolts.

Poles are swaged and properly welded and tested as per Indian / International standard.

Welding

Welding is done with a qualified welders, so that there is no spatters, blow holes, hence the weld will be perfect.







Base Plate

Base Plates and Gusset Plates are appropriately selected considering the wind velocity.

Foundation Bolts

"J" type foundation bolts of high tensile strengths are supplied with 600 to 700mm long and threaded top portion with 2 washers and 2 nuts.

Junction Box

Junction box can be provided internally if required. The Junction Box door will be provided with Neoprene / EPDM Gasket to have a longer life and resistance to surface heat / atmospheric heat / brittleness and provides better Ingress Protection to Dust and Water.

Finishes

- Hot Dip Galvanizing to standards IS4759/BS729/BSENISO1461
- Redoxide primer painted and finished with final paint as per the requirements.
- Special Paints.
- Painting thickness / Heat resistance capacities can be matched as per the site requirements.

Types of Pole Bracket

Single straight Double straight Single arch Double arch

Switchgears



High/Medium/Low Voltage Switchgears



Right Engineering pioneers in manufacturing switchgears up to 36 kV with wide experience over 18 years.

Manufacturing Product range ...

- * Medium Voltage Panel (3.3 kV up to 36 kV)
- * Low Voltage Main Distribution Panel (LV.MDP)
- * Sub Distrubution Panel (S.D.P)
- * Automatic Main Failure Panel (A.M.F)
- * Distribution Pump Panel
- * Distribution Lighting Panel
- * Motor Control Center
- * Fixed type (Standard)
- * Draw Out Type (Single & Double Module)
- * Capacitor Bank Panel
- * Synchronizing Panel
- * Automatic Transfer Switch Panel (A.T.S) & Control Panels
- * Control & Relay Panel upto 400kV

Switchgears



High/Medium/Low Voltage Switchgears



Product Standards followed:-

Our products meet National and International Standards: European (IEC standards - IEC 439-1 & 439-3 etc). British (BS Standards - BS 4662) North American (UL50/67/891/NEMA PB1/NEMA PB2)

Low voltage switchgear can be applied on distribution systems with:

- * Three Phase, 3 or 4 wire feeders, 50 or 60 Hz
- * Voltage of 208, 220/240, 415/480 0r 600
- * Current up to 5000 Amps.
- * Circuit Breaker may be either manually or electrically operated, fused or un-fused.
- * We use international makes of component like Merlin Gerin, ABB, Telemechanique, C&H, Siemens, GE, Westinghouse, etc..
- * Static Trip Units are provided on all low voltage circuit breakers.

RE switchgear provides efficient and safe power distribution and control. All switchgear is manufactured, assembled, and tested in one location. This assures an integrated fit and high quality. The overall effect is guaranteed reliability.

Junction Boxes







Type of Junction Boxes

- a) Multiway Junction Box
- b) Multiway Distribution Junction Box

Construction Of Material

- a) CRCA / MS
- b) Stainless Steel (SS 304/316)
- c) Fiber Glass Reinforced Polyester
- d) Cast Aluminium LM 6 Alloy

Area Classification

- a) Safe Area (WEATHER PROOF)
- b) Increased Safety (Exe)
- c) Hazardous Area (Exd) EXPLOSION PROOF

Temperature Classification

Junction Boxes are suitable for T3 to T6

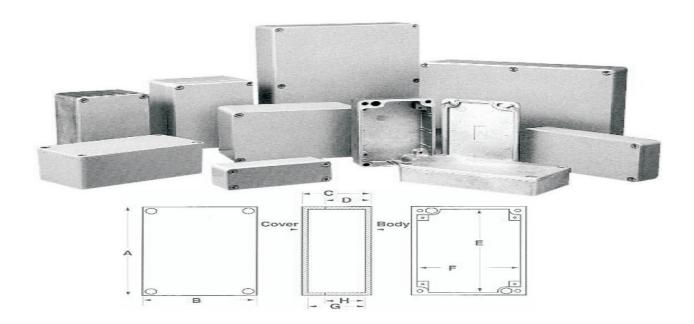
Ingress Protection

IP 42 to IP66



Junction Boxes





Dimension of the boxes are designed as per the specification requirements incorporating the no. of. Terminals, Size of the Terminals and the Incoming / Out-going Cable Sizes.

All the Junction Boxes are supplied with the Anti-Vibration Spring Loaded Terminals.

CRCA junction Boxes are finished with anti-corrosive Epoxy Powder Coated to colour RAL 7032.

Stainless Steel Junction Boxes are finished with Matt or Glossy.

Glass Reinforced Polyester Junction Boxes are supplied in Grey Colour for the Safe Area and in Black Colour for the Increased Safety Area.

Carbon fibers are added in the Exe. Junction boxes to reduce static charge buildup.

Junction Box Body and the Cover are fastened by captive lid screws in Stainless Steel.

Stainless Steel Hinges are provided for the Junction Boxes

Stainless Steel Name Plate is provided for the Junction Boxes

Transparent clear cover can be fixed if required for the visual of Instruments / Internal Components.

Junction Boxes



High quality enclosures / distribution boxes / cabinets

Certification

CMRI as per IEC for Exe (IIA/IIB) IIC T4

Ingress Protection IP65

Standards

IS 6381/2004 & IEC 60079-7 for Exe and Temperature Classification

IS 12063/1987 & IEC 60529 For Ingress Protection



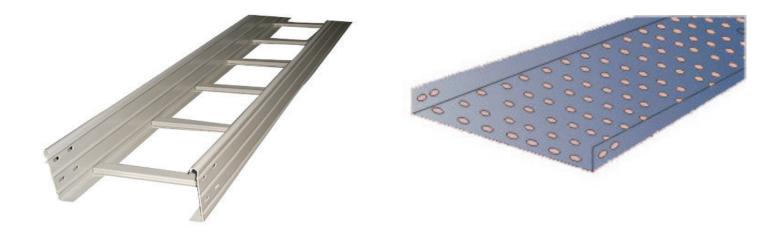
Standard Junction Box Sizes

We can also manufacture custom sized Junction Boxes, depending upon the no. and size of terminals and cable entries.

Cat no.	Dimension (mm)	Material
REJBIS/WP101060	100x100x100	Stainless Steel / FRP / Mild Steel
REJBIS/WP151580	150x150x80	Stainless Steel / FRP / Mild Steel
REJBIS/WP302515	300x225x150	Stainless Steel / FRP / Mild Steel
REJBIS/WP362515	360x225x150	Stainless Steel / FRP / Mild Steel
REJBIS/WP303015	300x300x150	Stainless Steel / FRP / Mild Steel
REJBIS/WP323015	325x300x150	Stainless Steel / FRP / Mild Steel
REJBIS/WP383015	380x100x150	Stainless Steel / FRP / Mild Steel
REJBIS/WP4020160	400x200x160	Stainless Steel / FRP / Mild Steel
REJBIS/WP4040160	400x400x160	Stainless Steel / FRP / Mild Steel
REJBIS/WP404020	400x400x200	Stainless Steel / FRP / Mild Steel
REJBIS/WP504020	500x400x200	Stainless Steel / FRP / Mild Steel
REJBIS/WP604020	600x400x200	Stainless Steel / FRP / Mild Steel
REJBIS/WP606020	600x600x200	Stainless Steel / FRP / Mild Steel
REJBIS/WP806020	800x600x200	Stainless Steel / FRP / Mild Steel
REJBIS/WP606030	600x600x300	Stainless Steel / FRP / Mild Steel
REJBIS/WP808030	800x800x300	Stainless Steel / FRP / Mild Steel
REJBIS/WP1008030	1000x800x300	Stainless Steel / FRP / Mild Steel







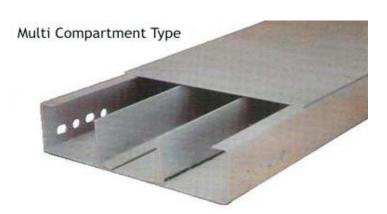
We are pioneer in cable tray manufacturing for the past 18 years.

Cable Trays are fabricated in mild steel, pre-galvanized steel and Hot dip galvanized and painted with required colour enamel or powder coated.

We also manufacture cable trays in Stainless steel SS - 304 / 316.

The standard length of a single piece of the tray is 2500 mm. Flanges of the tray can be manufactured according to the requirements.





We also manufacturer accessories such as clamps, connecting pieces, slotted angles for support and installation of cables over the cable trays.

Our other products include GI Strips, Flat Rods, Earth Electrodes and Earth plates.

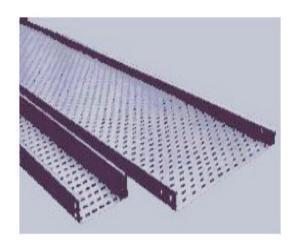


Light Duty perforated cable tray



Width mm	Height mm	Thick mm	
50	12	1.6	
75	12	1.6	
100	12	1.6	
150	12	1.6	
200	12	1.6	
225	12	1.6	
300	12	1.6	
450	12	1.6/2	
600	12	1.6/2	

Heavy Duty perforated cable tray



Width mm	Height mm	Thick mm
50/60	20/25	2/3
100	20/25	2/3
150	20/25	2/3
200	20/25	2/3
225	20/25	2/3
300	20/25/50	2/3
450	20/25/50	2/3
600	20/25/50	2/3



Heavy Duty Straight Flange / Inward Bend Perforated Cable Trays

Width mm	Height mm	Thick mm
100	50/75	2/3
150	50/75/100	2/3
200	50/75/100	2/3
225	50/75/100	2/3
300	50/75/100	2/3
450	50/75/100	2/3
600	50/75/100	2/3



Material: Mild Steel, Aluminium, Stainless Steel, FRP

Finish: Painted, Epoxy Coated, Hot Dip Galvanized, Self Colour, Red oxide, Anodized.

Width: 50 mm to 1000 mm

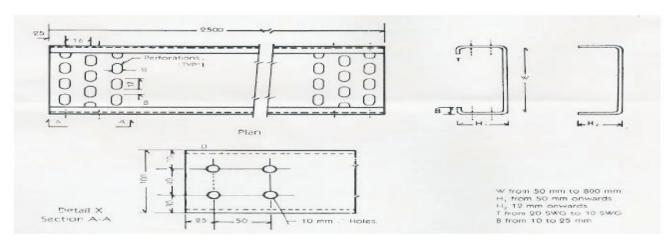
Depth: 20 mm to 150 mm

Thickness: 1.6 mm to 3 mm

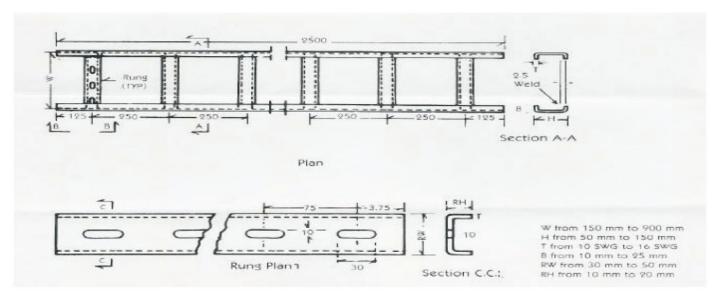
Length: 2500 mm to 3000 mm

Steel: As per IS:2062 / 1079

Galvanizing: As per 2629 / 4759







Ladder Cable Trays

Ladder cable trays are manufactured as per following specification:

Width: 150 mm to 1500 mm

Height: 50 mm to 150 mm

Thickness: 10 SWG to 16 SWG

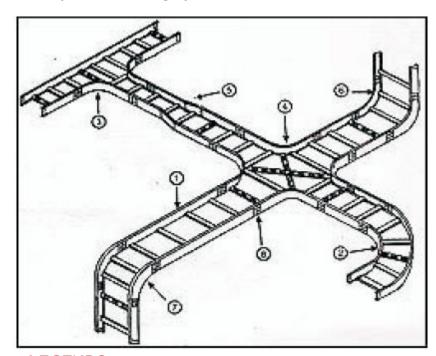
Bending: 10 mm to 25 mm

Radius Width: 30 mm to 50 mm

Radius Height: 0 mm to 25 mm

Accessories

T Clamp, Coupler Plate, Joint Fitting, Cross Strap, Side Angle Joint Fitting, Spring Nut, L Clamp, Gussets Fitting, Angular Plate, Floor Plate HD, Lattice Plate.



LEGENDS

- 1. Straight Ladder
- 2. Horizontal Elbow
- 3. Horizontal Tee
- 4. Horizontal Cross
- 5. Horizontal Reducer
- 6. Vertical Elbow Up / Inside
- 7. Vertical Elbow Down / Outside
- 8. Coupler Plate

Cable Glands



Cable Glands are manufactured to the International Standard according to BS 6121 to accommodate the internationally manufactured cable sizes.

Type of Cable Glands

- a) Industrial Double Compression
- b) Commercial Single Compression
- c) Weatherproof
- d) Explosionproof (Exd)
- e) Flameproof EExd and Increased Safety EExe

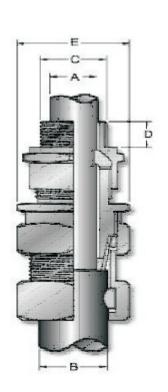


- a) Brass Nickel Plated
- b) Stainless Steel (SS 316/304)
- c) Aluminium
- D) Polyamide



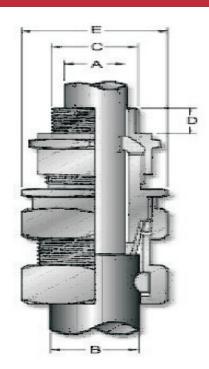
Туре	E1W/F				
Design Specification	BS 6121 : Part I : 1989				
Ingress Protection	IP 66				
Gland Material	Brass				
Finish	Plain Brass or Nickel Plated				
Seal Material	Thermoplastic Elastometer				
Cable Type	Steel Wire Armour				
Armour Clamping	Three Part Armour Lock				
Seal Technique	Compression and Displacement Type				
Seal Area (s)	Inner & Outer Sheath				





Cable Glands





Application

- Outdoor or Indoor Use
- For use with non-armoured elastomer and plastic insulated cables.

Accessories locknuts, sealing washers, serrated washers, earth tags, shrouds, adaptors and reducers are included in the kit.

Cat. No.	Gland Size	Metric Entry Thread 'C'	Minimum Thread Length 'D'		Armour 'A' Max		ll Dia. 3' Max	Armour Wire Dia.	Across Corner Dia. 'E' Max
REG16	16	16	15	6.3	8.6	8.0	13.2	0.9	13.2
REG20SS	20SS	20	15	6.3	8.6	8.0	13.2	0.9	26.5
REG20S	205	20	15	7.8	11.6	8.8	16.6	0.9/1.25	26.5
REG20L	20L	20	15	11.8	14.4	11.7	21.0	0.9/1.25	30.8
REG25S	25S	25	15	13.0	16.5	17.0	26.5	1.25/1.60	37.0
REG25L	25L	25	15	14.0	20.6	17.0	27.4	1.25/1.60	38.1
REG32	32	32	15	19.7	26.4	23.5	33.9	1.6/2.0	48.0
REG40L	40L	40	15	26.5	32.3	29.0	41.7	1.6/2.0	55.6
REG50S	50S	50	15	32.2	38.1	38.0	46.0	2.0/2.25	58.6
REG50L	50L	50	15	38.4	44.2	39.5	52.9	2.0/2.25	71.3
REG63S	635	63	15	44.1	50.0	50.0	58.9	2.25	81.3
REG63L	63L	63	15	50.1	55.9	51.3	65.3	2.5	88.4
REG75S	75 S	75	15	56.0	61.9	62	71.6	2.5	97.8
REG75L	75L	75	15	62.0	67.9	62.5	78.0	2.5	108.0
REG90	90	90	15	68.0	74.0	68.0	88.0	3.15	116.9
DIMENSIONS ARE IN MILLIMETERS									
FOR EXPLOSION PROOF CABLE GLANDS ADD 'EF' TO THE CAT# (EFCAT#)									

Trading



Trading of Electrical Accessories

We deal with world class Electrical Accessories from renowned international companies.

Merlin Gerin

Telemecanique

Clipsal

General Electric

Siemens

ABB

Omron

Phoenix Contact







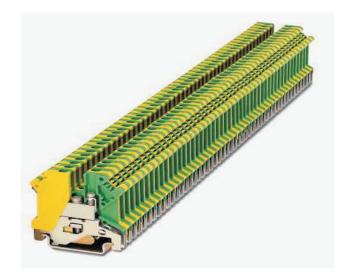


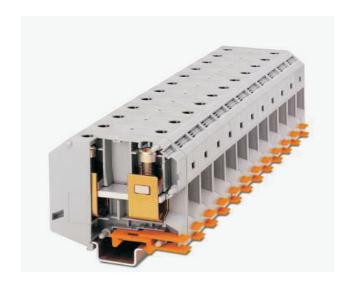


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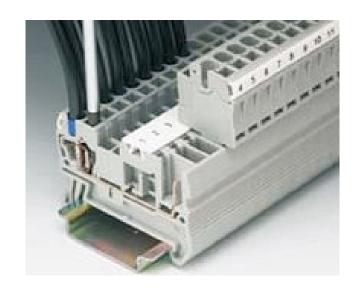
Trading































RIGHT ENGINEERING PROVIDES GUARANTEED
QUALITY, ECONOMICAL PRICING AND
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