

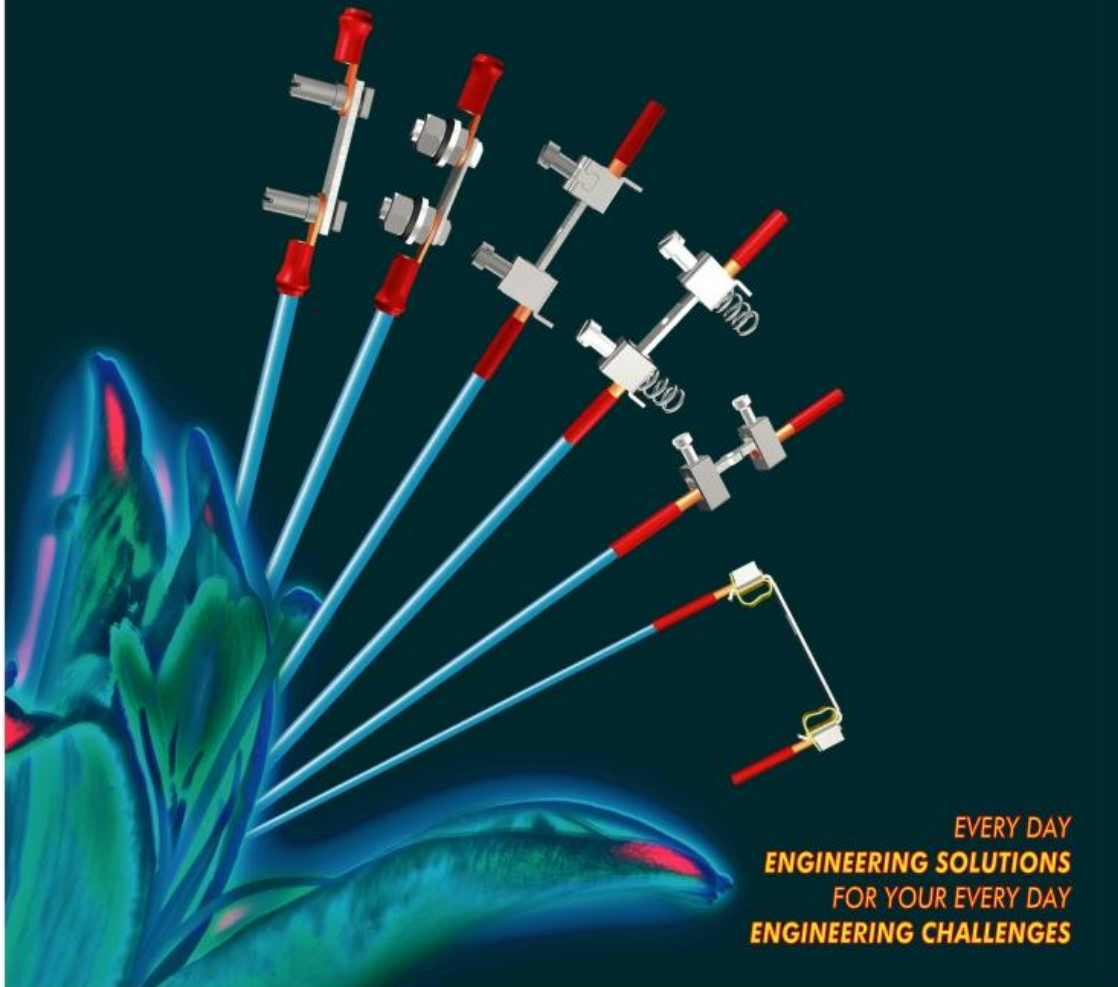


# Cross currents

OCTOBER, 2009

FOR PRIVATE CIRCULATION ONLY

**Team *elmex* Wishes you and your Family  
a Very Happy & Safe Diwali...**



**EVERY DAY  
ENGINEERING SOLUTIONS  
FOR YOUR EVERY DAY  
ENGINEERING CHALLENGES**

## RECENT DEVELOPMENTS : **elmex** RANGE OF TERMINALS



**KBT 100**



800 V/100 A/35 sq mm/2.5 Nm

**ET 4**



4 sq mm/0.5 Nm

**ET 50**



50 sq mm/6 Nm

**elmex** offers a wide range of High Current terminals suitable for all types of cables (flexible or rigid) both, in Polyamide 6.6 and Melamine Housings. The range begins with rated conductor size of 25 sq mm (rated current 101 Amp) and extends up to 240 sq mm (rated current 415 Amp). Depending on the construction of the terminal blocks, the termination is either by screw-clamp mechanism or by conductor crimped with ring/fork type lugs which are then secured by nut-bolt mechanism.

**elmex** has recently added **KBT 100** to this range of high current terminal blocks. The insulation housing of KBT 100 is Polyamide 6.6 and has the same design as CBT 100 (35 sq mm/100 A) which has a Melamine housing.

**elmex** has also expanded its **ET series of Earth Terminals** by adding two more types – **ET 4** (suitable for conductor size 4 sq mm) and **ET 50** (suitable for conductor size 50 sq mm). Both the terminal blocks are constructed using fully insulated housing of Polyamide 6.6 in a green-yellow colour combination. These terminals are mounted on DIN rails; along side other terminals, by means of a metallic foot clamp, which is secured to the mounting rail. This mounting provides a low resistance earth contact and also prevents inadvertent removal of earthing terminal from the rail. The DIN rail has two functions, operating as mechanical support for all terminals as well as electrical earth-bus for the earthing of apparatus, through earthing terminals.



**OAT 2.5**

800 V/24 A/2.5 sq mm/0.5 Nm



**OAT 6**

800 V/41 A/6 sq mm/0.8 Nm



**DST 16**

800 V/76 A/16 sq mm



**MCT 4**

500 V/32 A/4 sq mm

**elmex** has a wide range of stud type terminals, both in Melamine and Polyamide 6.6 housings, from conductor size 0.5 sq mm to 35 sq mm. In these terminal blocks, conductors prepared using ring/fork type lugs are terminated by means of **Hex Nuts** or Long **Round Nuts**, depending on the type of terminal. For making connections, these nuts have to be opened up and removed from the bolt before inserting the lug which is then tightened up using a screw driver or nut driver. Further, these terminals can be provided with separate protective covers as a safety measure.

As an innovative solution, **elmex** has developed two more types of stud terminals **OAT 2.5** and **OAT 6** suitable for rated conductor size 2.5 sq mm and 6 sq mm respectively. These terminals are provided with hinged covers within which the nuts remain captive. When the covers are opened up, carrying the captive nuts, the threaded bolts of the terminals are ready to receive the conductor prepared using ring/fork type lugs crimped with the conductor. When the covers are closed, the captive nut positions itself on the threaded bolt. The nuts are then tightened with a screw driver, to establish connections. The covers fully shroud the live metal parts and the insulated lug in the conductor clamping area, ensuring safety against electric shock hazard.

Since the nuts are captive in the hinged covers, (i.e. no need to open them up), this type of construction facilitates quick and convenient way of making connections.

**elmex** has extended its **Screwless Termination solution range up to 16 sq mm** by adding terminals type **DST 10** and **DST 16** suitable for rated conductor size 10 sq mm (57 A) and 16 sq mm (76 A) respectively. Both DST 10 and DST 16 are designed for conductor entry from the top side and are designed for mounting on DIN TS 35 rails.

**elmex** has also developed screwless terminal type **MCT 4**, suitable for conductor size 4 sq mm and for rated current 32 A. MCT 4 is a surface/panel mount type terminal block which accepts conductor entry from the side.

**Some of the important features of **elmex** Screwless Terminal Blocks are as under :**

- ✓ **elmex** spring clamps are made of special spring steel, they are stress relieved to prevent cracks in service due to residual working stress
- ✓ consistent clamping force independent of force applied for making the connection.
- ✓ Due to the spring clamp force, the conductor and current bar are pressed together to make a firm contact. This eliminates possibility of joint corrosion and helps in better performance in temperature rise and short time withstand current test.

For detailed information/specifications about our products please refer to our composite catalogue or an e-catalogue on [www.elmex.net](http://www.elmex.net)



## elmex KUT- N SERIES & OTHER TERMINALS GET UL RECOGNITION MARKS

elmex KUT - N series of terminal blocks and other terminal blocks as per list given below are recently approved by Underwriters Laboratory - USA for UL and cUL mark for USA as well as Canada. These recognitions are based on various tests and evaluation process of the product as per standards **UL 1059 for USA** recognition mark, and standard **CSA 22.2 # 158** for **Canadian** recognition mark.

elmex TERMINAL TYPE	SPECIFICATION AS PER STANDARD UL 1059 and CSA 22.2 # 158
<b>KUT 2.5 N</b>	600 V/20 A/12-20 AWG/6 LbIn
<b>KUT 4N</b>	600 V/30 A/10-20 AWG/6 LbIn
<b>KUT 6N</b>	600 V/50 A/8-20 AWG/13 LbIn
<b>KUT 10 N</b>	600 V/65 A/6-16 AWG/14 LbIn
<b>KUDD 4N</b>	300 V/20 A/12-20 AWG/7 LbIn
<b>DBK 8</b>	600 V/65 A/16-6 AWG/14 LbIn
<b>DBK 1x2</b>	600 V/IC-130A,OG-130A/IC 8-1 AWG,OG-16-6 AWG/IC-55 LbIn,OG-14 LbIn
<b>DBK 1x4</b>	600 V/IC-130A,OG-130A/IC 8-1 AWG,OG-16-6 AWG/IC-55 LbIn,OG-14 LbIn
<b>DBK 1x8</b>	600 V/IC-130A,OG-130A/IC 8-1 AWG,OG-16-6 AWG/IC-55 LbIn,OG-14 LbIn
<b>FDBK 8</b>	600 V/35 A/20-10 AWG/7 LbIn
<b>FDBK 1x2</b>	600 V/IC-80A,OG-80A/IC 12-4 AWG,OG-20-10 AWG/IC-22 LbIn,OG-7 LbIn
<b>FDBK 1x4</b>	600 V/IC-80A,OG-80A/IC 12-4 AWG,OG-20-10 AWG/IC-22 LbIn,OG-7 LbIn
<b>FDBK 1x6</b>	600 V/IC-80A,OG-80A/IC 12-4 AWG,OG-20-10 AWG/IC-22 LbIn,OG-7 LbIn
<b>FDBK 1x8</b>	600 V/IC-80A,OG-80A/IC 12-4 AWG,OG-20-10 AWG/IC-22 LbIn,OG-7 LbIn
<b>DFBK 12</b>	600 V/IC-120 A,OG-120 A/16-6 AWG,OG-20-10 AWG/IC-14 LbIn,OG 7 LbIn
<b>KAT M3</b>	600 V/25 A/12-22 AWG/7 LbIn
<b>KBT M6</b>	600 V/85 A/4-14 AWG/25 LbIn
<b>DCT 2.5 1x2</b>	600 V/15 A/14-22 AWG
<b>DCT 2.5 2x2</b>	600 V/15 A/14-22 AWG
<b>SCT 2.5</b>	600 V/15 A/14-22 AWG
<b>MCT 2.5/MCT 2.5P4</b>	300 V/15 A/14-22 AWG
<b>DET 2.5</b>	14-22 AWG
<b>DET 4</b>	10-22 AWG
<b>DET 6</b>	10-22 AWG



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### OUR PRODUCT RANGE

♥ Insulation Housings in Melamine, Polyamide (Nylon) 6.6, FRPP ♥ Conductor Clamping with Screw Clamps (MS & Brass), Spring Clamps, Bolted Connection, Anti-Vibration Spring-loaded Clamps ♥ Mounting on Standard DIN-rails TS 35, TS 32 and TS 15

<b>Feed-through Terminals</b> 	<b>Micro Terminals</b> 	<b>Power (Bus Bar) Terminals</b> 	<b>High Current Terminals</b> 	<b>Fully Enclosed High Current Terminals</b> 
<b>Double Deck Terminals</b> 	<b>Triple Deck Terminals</b> 	<b>Disconnecting Type Terminals</b> 	<b>Fuse Disconnection Terminal</b> 	<b>Fuse Feed Through Terminals</b> 
<b>Spring Clamp Terminals</b> 	<b>All Brass Terminals</b> 	<b>Plug &amp; Socket type Terminals</b> 	<b>Special Application Terminals (C.T.-Sec.)</b> 	<b>Distribution Blocks</b> 
<b>Stud type Terminals</b> 	<b>Spring Loaded Terminals</b> 	<b>Lighting Pole Terminals</b> 	<b>Earth Terminals</b> 	<b>Special Application Switches</b> 
<b>Plug-in type PCB Connectors</b> 	<b>Low Consumption Relay Modules</b> 	<b>Switching Mode Power Supplies (SMPS)</b> 	<b>Termitronix with Control Elements</b> 	<b>Surge Protecting Devices</b> 

### VISIT US AT



**POWER BANGLADESH 2009**

International Exhibition on Power, Energy & Renewable Energy  
Dacca, Bangladesh, 12-14 November, 2009

**Hall No. 1, Booth/Pavilion Number 2P-19**



**ELECHEMA-2010**

9th International Exhibition of  
Electrical & Industrial Electronics Industry  
Bombay Exhibition Centre, Mumbai  
January 20-24, 2010

**Hall No. 1, Stall No. H1 G34**

We welcome your suggestions and queries regarding our products and feedback about CROSS CURRENTS. Write to us at [ask@elmex.net](mailto:ask@elmex.net)



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TECHNICAL SPECIFICATIONS MAY CHANGE IN LINE WITH TECHNICAL ADVANCES AND INDUSTRY STANDARDS.