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Electronic Systems in MTR

What are the major electronic systems in MTR stations?

Apart from the typical building services systems, a number of electronic systems are installed in the MTR stations. While some of these systems are invisible to passengers, all these systems are necessary for providing an efficient, comfortable and safe railway service to passengers. Examples of the major systems include:

● Communication System

The Communication System comprises a number of subsystems which provide reliable voice, data and video communication services for passengers and operators. The subsystems include the Digital Transmission System, Master Clock System, Telephone System, Public Address System, Passenger Information Display System, CCTV System, Radio System, Public Mobile Telephone System, Voice Recording System and Centralized Message Printer etc.

● Automatic Fare Collection (AFC) System

The Automatic Fare Collection System controls the passengers' entry to and exit from the paid areas in stations, ensures safe passengers movement, and collects fare revenue. The station equipment of the system includes the Station Accounting System and a number of front-end equipment, for example the ticket gates, Ticket Issuing Machines and Add Value Machines etc. The current fare media include stored value contactless smart card (Octopus Card) and magnetic single journey ticket. The magnetic single journey ticket system will be upgraded to a contactless smart card system to improve ticket reliability and operation efficiency.



Ticket Machine at Airport Express Station
機場快線售票機

● Security Access Management System (SAMS)

The Security Access Management System controls the access through doors of different security levels to ensure security of the railway premises. It provides online data on the movements of personnel through the controlled doors.

● Main Control System (MCS)

The Main Control System monitors and controls most of the electrical and mechanical systems and equipment in the stations. It provides a unified user interface for operators to carry out their duties.



Operation Control Centre
車務控制中心

What are the special features of electronic systems in MTR stations?

Unlike typical buildings where system control is only carried out at the building management system in the building locally, certain systems in the MTR allow central control from the Operations Control Centre (OCC). This is essential for systems which affect the whole MTR network, for example the Power Supply System and Signalling System. Some other systems also allow such central control. For instance, for the PA system, apart from broadcasting pre-recorded messages and live announcements made from the local Station Control Room, announcements can be originated from the OCC, other control panels in the station and even authorized personnel through dedicated portable radio. The Passenger Information Display System also allows dissemination of messages from the OCC. With over 80 stations in the MTR network, such central control function ensures the accurate and timely control of the systems.

How do the various systems interface?

While dedicated interfaces are established between some selected systems, most of the systems in stations interface with the Main Control System (MCS), and are connected to the Integrated Backup Panel in the Station Control Room. The MCS provides an integrated user interface for station operators to monitor and control various systems in the stations. This simplifies the users' operation and allows the provision of various co-ordinated functions. As the MCS acquires information from various systems, with added intelligence, it can also provide decision support functions by giving recommendations to operators for the actions to take under special situations. Further, the standardization of the Human-machine-interface via the MCS system can also improve operation efficiency and reduce human error.



Examples of systems interfacing with MCS

How do the electronic systems respond to incidents and emergency situations?

Safety is of utmost importance in railway. The systems in MTR stations, therefore, have been designed to ensure safety and facilitate evacuation in case of emergency. In case the emergency mode is activated by station operators at the Station Control Room, various systems will respond to the command. The MCS system enables the Station Operators to effectively monitor the situation, and control various facilities within the station. In case of station evacuation, the ticket gates shall turn to free-wheel or open, allowing passengers to pass through. The signages above the ticket gates shall indicate "No entry". The Ticket Issuing Machines and Add Value Machines shall turn to out-of-service. Passenger information display units in the station shall display the emergency message and the PA system shall broadcast the message.

Are there any specific EMC requirements for the ELV systems?

The MTR has adopted a stringent set of EMC requirements in order to safeguard the proper functioning of the railway systems from electromagnetic interference, which is in line with the best international railway practice. Apart from complying with statutory requirements, such as OFTA (Office of Telecom Authority) regulations and HKSAR Ordinance Cap 106B Telecommunication (Control of Interference) Regulations, such ELV systems have to comply with international EMC standards such as EN50121 series and EN61000 series. The MTR has defined the specific EMC emission and immunity standards that different ELV systems have to satisfy so as to ensure that all the systems can work in harmony.

Are there any new initiatives in the systems in MTR stations?

The MTR has been active in exploring new design and means to enhance energy efficiency in the MTR systems. For electronic systems, equipment of high energy efficiency is desired and functions to switch off unnecessary equipment flexibly will be required.

At the field device level, MTR is one of the pioneers to adopt new energy efficient technologies such as LCD based passenger information display boards, VVVF controlled pumps, LED lightings, escalators with energy saving mode of operation, etc. At the sub-control system level, energy optimization control algorithms are implemented in the Station ECS Control System which include enthalpy control, chiller loading control, free-cooling/re-circulation mode control, etc. At the master control level, the MCS will continuously monitor the energy consumption of the infeed substations and predict the half-hourly maximum demand figures. If the predicted maximum demand exceeds the pre-defined limits, the operator will be prompted to take appropriate actions such as the implementation of load balancing plans pre-defined in the MCS system.

In addition, the MTR is paying additional attention to the human factors issues in the equipment and system design in order to improve the user-friendliness, enhance operation efficiency and reduce human errors. For equipment used by passengers, the MTR also looks for more modern and attractive outlooks, for example for the ticket gates and ticket issuing machines etc.



港鐵電子系統知多少

港鐵主要電子系統

為了提供精確、舒適與安全的列車服務，在港鐵設施內，除了一般常規屋宇裝備系統以外，還需要很多其他電子系統的配合。本文章會對當中四個主要部份作出介紹，這包括：

i) 通訊系統

這其中包括多個子系統，為乘客與操作人員提供可靠的語音、資料和影像傳達。子系統包括數碼傳輸系統、主鐘系統、電話系統、公共廣播系統、乘客資訊顯示系統、閉路電視監控系統、無線電通訊系統、公眾流動電話系統、語音記錄系統和中央資訊印表機等。

ii) 自動收費系統

控制乘客進出付費區域，收集車費並且保證乘客安全地在港鐵內流動。票務系統包括售票機、增值機與智能卡（即八達通）系統。現在流通的磁帶車票系統也將被升級到非接觸式的智能卡系統，用以改進可靠性和操作效率。

iii) 安防管理系統

在保證鐵路安全的前題下，此系統能控制各員工進出不同安全級別的限定場所，亦能提供即時的員工流動資料。

iv) 主控制系統(MCS)

能控制大部份的機電設備，它為操作人員提供統一的工作介面。

電子系統大不同

不同於一般的樓宇管理系統，某些港鐵系統允許從操作控制中心(OCC)作中央控制。這對整體港鐵包括80個車站的網路，例如電源系統和信號系統是非常重要的。



Station Control Room
車站控制室

各系統怎樣連接和對應

站內大多的系統都是被連接到主控制系統(MCS)和車站控制室中的 Integrated Backup Panel。MCS為操作人員提供聯合用戶介面，監測和控制站內的各系統。MCS能獲取並整合系統資訊，加上人功智能，用以幫助操作人員作出決策。

突發事件和緊急情況

鐵路以安全最為重要，例如在緊急情況下，車站之操作人員可令所有票閘全開讓乘客通過，售票機和增值機會停止操作，緊急資訊也會在顯示屏幕和公共廣播系統上發放，以保證所有人都能安全地快速撤離。

EMC要求

為了保障不受電磁波干擾，港鐵除依從法定要求之外，例如電信管理局(OFTA)章程和HKSAR106B電信(干擾控制)章程，ELV系統也遵照國際EMC標準，如EN50121系列和EN61000系列。

未來發展

港鐵正致力在節能、提高操作效率和減少人為錯誤的領域內不斷探索新的設計。另外，港鐵亦為設備尋找更富時代感和吸引力的外觀。

會員動態 Members' News

香港電器工程商會 4/2010 - 6/2010年度新會員名單

入會日期 Join Date	申請會員名稱 Applicant Name	會籍 Membership Status	代表人 Representative
6/2010	李德工程有限公司 LEE TACK ENGINEERING CO LTD	普通會員 Ordinary Member	李健林先生 MR. LEE, KIN LAM
6/2010	縱橫母線槽有限公司 DYNAMIC BUSWAY LTD	贊助會員 Associate Member	鄭維曜先生 MR. CHENG, WAI YIU
6/2010	佰保國際有限公司 BABEL INTERNATIONAL LTD	普通會員 Ordinary Member	吳松雲先生 MR. NG, CHUNG WAN ALMEN



陳星傑

陳福祥博士榮休

縱橫機電江湖數十載，至今年的4月底，是我商會名譽司庫陳福祥博士榮休之大日子；恭喜賀喜，博士終於「甩雞」喇！

一眾友好在4月28日於龍堡賓館為陳博士隆重地搞了一個別開生面、主題為【樂在工作中】的榮休歡樂晚會，要博士扮鬼扮馬親自表演魔術、大耍功夫，甚至狂跳牛仔，兼且高歌幾曲。大會更預先錄製了多輯短片，由博士的好友匯聚一堂齊齊講，唱述博士的咸水史；真係未睇過都唔知我哋博士嘅威。當晚到賀之賓客多為機電工程之同業，亦不乏顯赫之業界翹楚。

陳博士身為博士級人馬，於電氣工程行業領域屬黑帶九段武林高手，在業內赫赫有名；除經常公開發表專業技術文章，亦偶有個人書籍著作。事業成就超凡之外，博士亦交遊甚廣，常應邀擔任眾多義務公職，同時貴為多個專業學會、商會組織的理事、會長等。

雖云退休，但按陳博士個人風格，絕不願意讓自己投閒置散，無所事事；估計將會是退而不能休。不過，就算佢真係想休，我哋都唔會肯過佢。我商會理事會全仁，於28日榮休晚宴席間，向博士饋贈「事事金如意」座飾一具以作紀念；代表著商會理事全仁點滴心意之餘，實含「拋金引肉」之味道；即係送條金仔比過佢，等佢唔多好意思然後做番夠本夠「甘」嘅解。

博士唔使日日番工之後，緊接著下週的「工作安排」是：6號以電器商會司庫身份出席會議並陳述財務狀況，8號以工程師學會副會長身份接受傳媒訪問，9號要出席公益金慈善餐會晚宴，11號要參加長跑……；仲忙過番工果陣！



Dr. F.C. Chan's Retirement Dinner

On April 28 many of our Members had the privilege to join Dr. Chan's family, friends and colleagues in celebration of his retirement.

商會活動 HKECA'S Activities

已舉辦之活動 Past Events

註冊小型工程承建商簡介會 Registered Minor Works Contractors Briefing Session

本會於2010年5月6日，特別了邀請【屋宇署】為會員開辦<註冊小型工程承建商簡介會>，協助業界了解有關註冊制度及如何填寫申請表格。當日有五十多位會員出席，氣氛熱烈。如會員日後有需要，本會亦會繼續舉辦相關簡介會。

HKECA invited the Building Department to organize a "Registered Minor Works Contractors" briefing session on 6 May 2010, to help our members to better understand the registration system and answer queries about filling the registration forms. Over 50 members attended the session and HKECA will continue to organize similar sessions if necessary.



海外同業來訪 Overseas Visitor

David Latimer, Vice President of International Federation for the Safety of Electricity Users (FISUEL) visited HKECA on May 26.

FISUEL - 國際保障電力使用者安全聯會(譯名) 副會長5月26日到訪商會。





2010展覽會 - 『LED與環保建築』技術論壇 Asian Elenex 2010 - LED & Green Building Forum

『2010亞洲國際電子電氣工程及節能科技展覽會』，於6月2日至4日在灣仔會展中心完滿舉行。

一如過往，本會於會場內設置攤位，推介商會工作。此外，本會首度與主辦機構【香港展覽服務有限公司】聯合舉辦以『LED與環保建築』為主題之專業技術論壇，並有幸獲得香港【機電工程署】署長陳鴻祥太平紳士作為主禮嘉賓。

當日論壇分別由【華美達國際有限公司】汪荃先生主講「發光二極管發展與應用」及「發光二極管熱處理方案」及【國家電線電纜品質監督檢驗中心】的高級工程師朱永華女士主講「綠色電纜測試」。

本會將會繼續往開來，繼續向會員及業界推廣其它的專業技術，安排更多的技術論壇，以促進行業的發展。

In addition to setting up a display booth as a sponsor of Asian Elenex held in Hong Kong from June 2 - 4, we also hosted a technical forum with Hong Kong Exhibition Services Ltd to cover the topics of Development, Applications and Optimal Thermal Solutions of High Power LEDs and Testing of Cables in Green during the exhibition.

HKECA Technical Forum

香港電器工程商會-LED與環保建築論壇



陳星傑



足球熱身賽 HKECA vs Paul Y. Soccer Match

香港電器工程商會與保華建業之足球熱身處女賽於6月19日順利完成。

我會會長陳理誠安排當天賽事在香港仔黃竹坑遊樂場的人造草地足球場進行。雖然當天正是建制派支持政府政改在維園大集會，十二萬人出席，港島區銅鑼灣及灣仔交通停頓；球員們均依時到達。

我方由理事馮桂堅、韋業堅、汪荃、孫生發及青年會員劉家裕帶領盛電及力訊會友穿着爾夫球隊贊助的橙色戰衣出席球賽，氣勢不凡。不過友隊保華建業不單是年青力壯，亦是常戰合拍；更有靚女攝記滿場飛。我方亦有理事楊啓祥、于健安及秘書甄小姐在場為球員打氣。

我方龍門大將軍由汪荃帶頭，中場孫生發，下半場韋業堅防守，場面相當熱鬧。在炎熱天氣下，所有球員仍全情投入；汪荃更加在開賽不久，奮不顧身一個頭槌，把眼鏡報銷了。但始終在保華建業強而合拍的攻勢之下，再加上我方是首場熱身賽，我方只能相讓數球。相信不久之將來會有更好的表現。

A practice soccer match where HKECA played against Paul Y. Engineering Group Limited was held on June 19 in Aberdeen.



于健安



參觀廣州國際照明展覽會

Guangzhou International Lighting Exhibition Visit



何彬興

那是公曆二〇一〇年六月十一日星期五，我們一行二十多眾，都是香港電氣工程師學會的會員和親友。早上八時多，我們先在落馬洲地鐵站齊集，然後乘坐專用旅遊車出發，直駛廣州海珠區[中國進出口商品交易會]的琶洲展覽館，一路上交通十分暢順，兩個多小時後，汽車便到達了廣州國際照明展覽會場外面。大家魚貫下了車，在會場入口處齊集好，趁著各人精神尚算飽滿，先來拍個團友大合照。

還沒有完全踏進照明展館裡面，早就有主辦單位[法蘭克福展覽公司] (Messe Frankfurt) 漂亮和活力十足的銷售經理陳小姐，走過來熱烈款待，還拍了一個喜相逢大合照，隨即陳小姐又親自給我們重點介紹了展覽企劃的多個環節，其中包括了日亞(NICHIA)大瓦元件、KNX家居和樓宇自動化控制系統、日本羅姆(ROHM)無源元件，及其他台灣參與單位的展品等等。聽完了介紹後，各團友先各自分散，自由活動了一陣子。



原來這個會場，面積實在不小，佔地約達130,000平方米，為中國有史以來最大型LED產品的展覽會，所展出的都是LED上，中，下三游產品，是一個蒐羅最新LED行業信息的理想平台。六個主題展區，涵蓋整個LED的產業鏈，包括(1)材料及組件、(2)封裝/模塊、器具及成品、(3)製造設備檢測設備、(4)散熱組件、(5)LED燈具、(6)LED應用顯示屏、和背光源產品等等。真是琳瑯滿目，目不暇給。我們也因此而深切理解和體會到LED產品無論在深度、寬度、和質量方面，都向前跨出了一大步，進展可謂一日千里。

除了戶外燈具和裝飾 (architectural display) 外，LED已宣告打進了室內照明及燈飾領域。及至沿用的鳥絲、日光管、石英、高低壓鈉泛光燈等等弊端，LED都可以一一比美，甚至取而代之，如果說LED是明日光源之星，實絕不為過，因無論在高節能性、耐用年數等方面而言，都非現有一般燈源可望其項背，唯一可惜之處，就是現在LED燈具的價格仍屬偏高，不是普羅用戶所能消費得起，只好寄望將來生產大量化後，價格自會按多產低成本原理"Economy of scale"，相應降至合理水平，到時LED燈具就可以廣泛地被採用，那時就可以做到節能、低碳、減排等環保功能，令大眾用家受益，達至這個地步，指日可待。

有道有話則長，無話則短，一覺醒來，轉眼間又到了次日，早點後我們又再上途程，乘車前往參觀廣州電視塔。據說該電視塔是由 Ove Arup 顧問工程師設計的，其垂直金屬外型結構，真有點北京運動場的雀巢建築影子。離開了高聳入雲的電視塔後，我們的車子又直撲廣州荔灣西關華林大屋，那邊的博物館，陳列著千姿百態的多種陶瓷精品，使人歷不禁想起了昔日西關美好歲月的懷憶。我們同時也注意到，這個地區正在進行大興土木，到處都見到樓房拆卸情景，當局似乎很積極想把這個地方，打造成一個有拱橋流水，古蹟盎然的旅遊景點。回程中當我們路經荔灣湖公園時，見到人群在踢毽子，一些團友童心未泯，一時興起，就踢起毽子來，一時身輕似燕，一時矯若游龍，「身腳」還很不錯呢。

另外有一個小插曲，我很想跟各位會友分享一下，在旅程中有一天，一位團友突然心血來潮，公開大談女士胸圍之道，笑著說原來女性的胸圍設計是蘊含著奧秘的力學原理，就是這，做成了新式胸圍產品更具智能特色，他又稱穿著恰如其份的內衣褲，可以優化個人自信心云云，說時眉飛色舞，引得團員哄然大笑，筆者亦十分佩服該名團友的觀察和想像力，雖然說的不知是真是假，搞搞氣氛也是好的，倘若有一天此君被邀請去當上黛安娜 (Triumph) 產品的代言人，吾輩一定不作第二人想，舉腳支持！

當天午後，因事前沒有做好安排，故未能進入亞運會多功能展示廳和廣州歌劇院內參觀，眾人不無感到有點遺憾，只好留在歌劇院外的廣場上面，閒聊一陣子，裝成一群建築專家模樣似的，指手劃腳，議論滔滔，自我輕鬆一下，不亦樂乎！



六月十三日那天，眾人按著行程，乘車離開了廣州駛往東莞市的[恆成電器金屬製品廠]參觀。據知該公司創辦於1968年，專門生產配電輸電設備，例如：線槽、線梯、鋼筋、U槽、插蘇箱、配電箱等等，在照明燈具方面又有格柵燈、T8、T5燈盤，日光支格燈、應急照明燈各項產品，全部均能符合國際品質標準。該公司除擁有經驗豐富的管理人才和熟練的技術人員外，還擁有佔地4萬多平方米的廠房，和各種重型機械，所以產品都能滿足到廣大客戶的期望和需求。

參觀完畢，我們到周邊閒逛一下，有幸可以親手從樹上摘下人稱果王的荔枝，一嚐鮮美滋味，可謂大快朵頤。主人家也當真客氣得過了頭，堅持幫我們把摘下的荔枝都打了大包小包，拿回家去當手信，逗得大家興高采烈，又吃又拿，還有滿載而歸之豪感呢！



A delegation of over 20 members and their friends gathered at Luo Ma Zhou railway station early at 8.00 am on 11 June 2010 and went straight ahead to Guangzhou by coach. We were warmly received by Miss Chan of Messe Frankfurt, the organizer of the Guangzhou International Lighting Exhibition. The exhibition site occupies an area of 130,000 sq.m. with the main theme focusing on the full supply chain of LED light sources, manufactured products, testing equipment and accessories. Members were fully impressed by the vast size and numerous advanced and intelligent LED products put on display. We were also aware that LED products have taken great strides in the past and will no doubt rise to the star of the lighting industry in the foreseeable future.

On 13 June we left Guangzhou for WEW Electricity & Metal Works Ltd. at Dongguan. With over 40 years of working experience since first established in 1968, the firm is now able to manufacture and supply to customers with satisfaction a wide range of quality products such as cable trunking, cable tray, cable ladder, U channels, T5/T8 luminaries, lighting batten, emergency lights, etc.



2010年永遠會長方宏浩盃羽毛球賽 2010 Badminton Competition — The Life President Martin Fong Cup

日期 Date : 6.13 & 20/9/2010 (星期一 Mondays)

地點 Venue : 順利村體育館
Shun Lee Tsuen Sports Centre

三會聯合慶祝國慶晚宴 The 61st PRC Anniversary Celebration Dinner

【港九電業總會】、【香港電器業進出口商會】
及本會將聯合舉辦慶祝中華人民共和國成立晚會:-

A dinner jointly organised by the HK & Kowloon Electric Trade Association, HK E.P.M. Importers and Exporters Association Ltd. and HKECA in celebration of the 61st PRC anniversary will be held as follows:-

日期 Date : 28/9/2010 (星期二 Tuesday)

地點 Venue : 金鐘名都酒樓
(金鐘道95號統一中心4樓)
Queensway Metropal Restaurant

懇請大家踴躍參加，詳情請向商會辦公室查詢。

Please contact
HKECA office for
details.

2010年度菲律賓亞洲太平洋電氣工事協會聯合會議 FAPECA 2010 - Pasay City, Philippines

本會將繼續組團參加2010年【亞洲太平洋電氣工事協會聯合會議】

The theme for this year's FAPECA conference is Green Engineering in Electrotechnical Construction. We will form a delegation team to attend.

日期 Date : 23 — 25/11/2010

地點 Place : 菲律賓 Pasay City, Philippines

2010年度會員大會 2010 Annual General Meeting & Dinner

日期 Date : 29/10/2010 (星期五 Friday)

地點 Venue: 百樂門宴會廳
(銅鑼灣伊利沙伯大廈6樓)
Causeway Bay Paramount Banquet Hall

商會選舉委員會將於10月中寄出第19屆理事會選舉選票，大家敬請留意！

Please note that the ballots for the next Executive Committee Election will be sent out in October!

高球專線 Golfers' Link

CCG Cup

地點：觀瀾湖高爾夫球會
安妮卡球場

Venue: Mission Hills Golf Club
Annika Course



今年CCG盃於五月十四日觀瀾湖高爾夫球會安妮卡球場舉行。在此多謝CCG公司的慷慨贊助。本會亦於這次比賽加設一千元現金抽獎贊助，其中七位參加者抽到一百元現金獎，而為特別恭賀麥家能先生第三洞打出“信天翁”，本會亦特別送出三百元現金獎。當天比賽氣氛熱烈，戰情十分激烈。經一番角逐後，優勝者名單公佈如下及謹此對得獎者祝賀。

CCG Cup has been held successfully on 14 May 2010 at Mission Hills Golf Club Annika course. We would like to express our appreciation to CCG Cable Terminations Far East Ltd. for the sponsorship. HKECA golf team have sponsored HK\$1000 for 7 nos. of HK\$100 cash each lucky draw, and a HK\$300 special prize to Mr. Mak Ka-nun to congratulate him for getting an "Albatross" at Hole No. 3.



得獎者名單 The Winners

冠軍	何秉宏先生	Champion	Mr. B W Ho
亞軍	楊偉雄先生	1 st Runner Up	Mr. Yeung Wai-hung
季軍	麥家能先生	2 nd Runner Up	Mr. Mak Ka-nun
最低桿數	楊偉雄先生	Best Gross	Mr. Yeung Wai-hung
前九最佳成績	廖漢輝先生	Best Front Nine	Mr. Liu Hong-fai
後九最佳成績	董國權先生	Best Back Nine	Mr. Tung Kwok-kuen
最近洞獎	第5洞 麥家能先生	Close to Pin #5	Mr. Mak Ka-nun
	第7洞 麥家能先生	#7	Mr. Mak Ka-nun
	第8洞 楊偉雄先生	#8	Mr. Yeung Wai-hung
	第12洞 廖漢輝先生	#12	Mr. Liu Hong-fai
	第15洞 徐顯校先生	#15	Mr. Chui Hin-chi
	第17洞 李炳超先生	#17	Mr. James Li
最遠發球獎	第3洞 蕭嘉榮先生	Longest Drive #3	Mr. Siu Ka-wing
	第10洞 蕭嘉輝先生	#10	Mr. Siu Ka-fai
嘉賓組冠軍	楊永基先生	Guest Winner	Mr. Ted Yeung



HONG KONG ELECTRICAL CONTRACTORS' ASSOCIATION
GOLF TOURNAMENT

CCG Cup





Oman Cables Industry (SAOG)



The Headquarter

Oman Cables Industry (OCI) has the state-of-art equipment and most sophisticated machinery to manufacture its extensive range of technologically advanced products such as: Low Voltage, Medium Voltage Cables, Building Wires, Instrumentation Cables, Overhead Transmission Line Conductors, Special Purpose Cable, Wiring Solutions for both domestic and export markets.



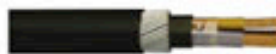
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Medium Voltage Power Cables



Instrumentation Cables



Low Voltage Power Cables



Control Cables



Fire Resistant Cables



Flexible Cables



Overhead Line Conductors



PVC & LSF Building Wires / Cables

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