

رؤية
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



COMPANY PROFILE

www.bahra-electric.com





E-CATALOGS
DOWNLOAD



BAHRA ELECTRIC
LOCATION



CONTENTS

INTRODUCTION	P2
RANGE OF PRODUCTS	
WIRES&CABLES	P4
CONDUITS	P6
PVC	P8
FLEXIBLE METAL & LIQUID TIGHT CONDUIT	P9
CABLE MANAGEMENT SYSTEM	P10
EARTHING & LIGHTNING PROTECTION	P12
BUSBARS	P14
LOAD CENTERS	P16
CIRCUIT BREAKERS	P17
WIRING DEVICES	P18
ENCLOSURES	P19
ALUMINUM	P20
SWITCHGEAR	P21
TRANSFORMERS & BUSWAYS	P22
APPROVALS & CERTIFICATES	P24
EXPORT COUNTRIES	P26
LOCATION MAP	P28

INTRODUCTION

BAHRA ELECTRIC

Also known as Bahra Cables Company was established in 2008 to serve Saudi, GCC & International Markets. It is based in Bahra industrial city located 35km from Jeddah. Bahra Cables Factory occupies over 500,000 square meters of prime manufacturing space together with associated design offices, laboratories and storage area. It specializes in Manufacturing and Distributing Electrical Equipments.

Bahra Electric is committed to the production of the best product quality and service and therefore uses cutting edge European Technology in manufacturing as all of the machines were brought from Europe and Asia. The core technologies in production processes, material applications and logistic procedures were provided by German experts and the key functions are being managed by German engineers.

The organization has a lean vertical management structure which is designed to integrate with a highly developed IT-based structure. This partnership allows the rapid flow of information through the management chain and facilitates timely response in the best traditions of 'hands on' management.

Bahra Electric has the flexibility to provide a versatile product range to serve the construction, electric utilities, distribution, industrial, oil & gas and petrochemical sectors. The cables produced comply with both American standards (CSA, ANSI, ICEA and UL) and European standards (IEC, BS, NF and VDE specifications).





- Established over 10 factories in a span of 10 years.
- Operates our own Copper 80,000 ton/year, Aluminum 45,000 ton/year and PVC Plant 36,000 ton/year.
- State-of-the-art production machinery, testing equipment and ERP system.

ZONE	AREA
Production	118,800
Testing	7,000
Warehouses	36,500
Open Storage Area	175,000
Offices	4,000
Roads & Free Area	158,700
TOTAL	500,000sqm



- Our 7000 m² integrated testing facility is accredited by A2LA in accordance with ISO/IEC 17025 for a complete type test range.
- Exports to over 30 countries.
- Our products comply with universal standards; IEC, BS, UL, ASTM and certified by SASO, ESMA, ISO, BASEC, LPCB, UL, ASTA and many more.
- Our products are also type tested by well-known independent laborites KEMA, Bre Global, BASEC, UL, Labellec, Intertek, Bureau Veritas, etc.

BUILDING WIRES



SOLAR CABLES



LOW VOLTAGE POWER CABLES



LEAD SHEATHED LOW VOLTAGE



LOW SMOKE & FUME, ZERO HALOGEN



FIRE RESISTANT WIRES & CABLES



CONTROL & AUXILIARY CABLES



VARIABLE FREQUENCY DRIVE CABLES



INSTRUMENTATION CABLE



MEDIUM VOLTAGE POWER CABLES



HIGH VOLTAGE POWER CABLES



BARE COPPER



OVER HEAD CONDUCTORS



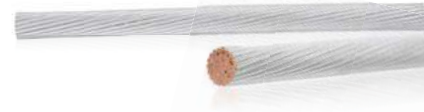
LEAD SHEATHED MEDIUM VOLTAGE



LEAD SHEATHED HIGH VOLTAGE



BARE TINNED COPPER





CABLE MANAGEMENT SYSTEM CONDUITS, FITTINGS & ACCESSORIES

According to IEC, British, European, American, Saudi & Gulf Standard.



BC Conduit has started production of a variety of high quality UPVC - UnPlasticized Polyvinyl chloride compounds in its state-of-the-art factory in Bahra, which has an annual output capacity of over 36,000 tons.

The company sources PVC & UPVC feedstock for the new factory from Saudi Basic Industries Corporation (SABIC) to produce the granule used for jacketing and insulating the cables. SABIC is one of the world's largest manufacturers of PVC & UPVC and the sole producer in Saudi Arabia.

The factory built with the expertise of Buss Company of Switzerland, is completely integrated and equipped with the latest technologies in the field.

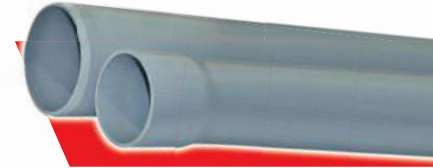
The ability to manufacture PVC & UPVC compounds improves BCC's control over the material used in its cable and wire production, reduces product cost and adds higher performance values to its products.





The new factory also eliminates the need for local sourcing of PVC compounds, ensures superior quality production of Conduit & Fittings and creates more career opportunities in the region at the same time.

All Conduits and Fittings are available according to below standards
 IEC60423, IEC 61386-1 & 21, IEC 60670-1
 NEMA TC2, TC3, TC6, TC8 & TC9 & UL 651
 SASO 14/15 - DIN 8061/8062
 GS 32/33 - 2007



Bahra Conduit achieved Industrial Design Certification for its innovation product “Telescopic Double Tube Expansion Coupling” by King Abdulaziz City for Science & Technology (KACST) with patent rights.



BAHRA PVC started production of a variety of high quality plasticised and unplasticised polyvinyl chloride (PVC) for Wires, Cables and other applications with an annual output capacity of over 36,000 MT. Company has the flexibility to produce a versatile range of:

- Soft and flexible PVC Compound for cables (Sheathing, Insulation, bedding) and other applications.
- Polypropylene rope of non-hygroscopic filler
- Rigid UPVC Compounds to serve our consumptions and market requirement.

The PVC Compound granules comply with the American standards (ASTM, UL), European standards (IEC, BS). Saudi and Gulf requirement.

BAHRA PVC STANDARDS

Bahra PVC products are manufactured and tested in accordance with: BS EN 50363-3 | BS EN 50363-4 | IEC 60502-1&2 | IEC 60502-1&2 | UL 83 | BS 7655-3 | BS 7655-4 | IEC 60227 | BS EN 60811





UL LISTED FLEXIBLE STEEL CONDUIT - (REDUCED WALL STEEL - TYPE RWS) – UL DXUZ.E329339 APPLICATIONS:

This conduit is intended for installation as a metal raceway for wires and cable in accordance with the National Electrical Code, NFPA 70, and FMC shall be permitted to be used in the exposed and concealed locations.

NON - UL TYPE FLEXIBLE CONDUIT - (REDUCED WALL STEEL - TYPE RWS) APPLICATIONS:

Intended for applications where listed products is NOT Required.

LIQUID - TIGHT METALIC CONDUIT - (NON -UL) APPLICATIONS:

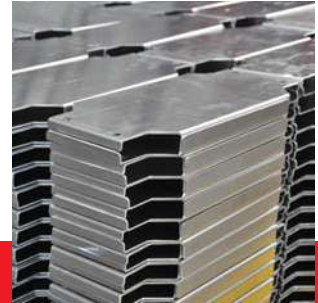
- Liquid tight metal flexible conduits shall be used where listed products not required.
- Electrical raceways.
- Used in industrial and commercial applications for conveyers, blowers, cranes hoists, air conditioners, Machine Tools Industrial environment and lubricant equipment.
- Wet and Oily Locations.
- Outdoor use due to the inherent UV resistance of PVC.
- Outer jacket can be PVC or LSOH



Bahra Cables Management Systems (BCMS), with headquarters located in the industrial city of Bahra, is fast becoming one of the leading companies operating in the Kingdom of Saudi Arabia rapidly building a fine reputation for its quality cables management systems products.

The quality products and services it offers have made the company known and recognized highly by all its customers for their exceptional quality assurance, outstanding products and excellence in customer service.

The main markets serviced by BCMS are Saudi Arabia and the countries belonging to the Middle East and North Africa (MENA) Region.



The company serves the needs of many industrial companies engaged in the field of real estate construction, electric utilities, transport, petro-chemical and marine industries, oil and gas, aero and shipbuilding industries, telecommunications, medical, automotive industries and supplies a wide selection of Cables management systems products and related accessories to many distributors in the industrial sector domestically and in MENA Region.

The Cables Management Systems is a part of Bahra Advanced Cable Manufacture Co. Ltd. and Products complying with most well-known international standards such as NEMA, IEC, for HDG as ASTM or BS EN.

BCMS manufacture and supply a whole range of Cable Management System including Cable Tray, Cable Trunks, Weatherproof Trunk, Cable Ladder, Support Channels complying with the most well-known International Standards such as “IEC 61537, NEMA 126.1-02 Standards for HDG as ASTM 123 or BS EN 1461”. Our Strategy for the purchase of raw material from many sources in the Kingdom of Saudi Arabia and abroad. Coil material as per standard BS 2989.

We have our own specification to provide customers the quality products and excellent service according to their requirements with the following materials specification for special applications.



BCMS Cable Support System is approved by the most of the Engineering design & Consulting Offices in the Kingdom and is being used for all kinds of Projects including mega size and land mark projects as indicated in our reference list. Our commitment is to satisfy our clients with high standard products, prompt delivery and efficient services.

EARTHING AND LIGHTNING PROTECTION SYSTEMS

An earthing system is a need in any electrical system to protect from the adverse effects of lightning, Leakage currents, insulation failures, short circuiting and other faults. A reliable earthing system with short, direct and low resistive path ensures protecting people, equipment, structure and environment by dissipating fault currents that are of high magnitude and impulsive rise times.

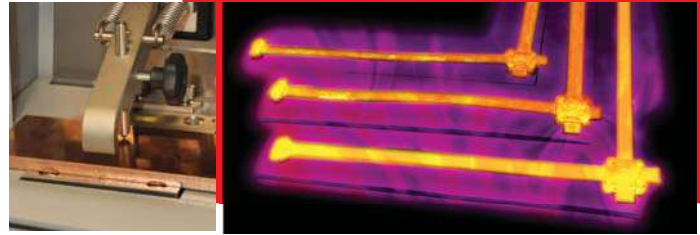
Earthing systems are designed as per the requirement of electrical systems and applications, though the principle remains the same, conductors, devices, type of connections varies for different applications such as power stations, overhead transmission systems, consumer power networks.

PRODUCT SUPPLIES



TESTED TO THE EXTREMES*

In salty environments
 In sulphurous atmospheres
 With peak current of 100000 amperes
 IEC 62561, bs en 50164 tested
 Tested for quality by bahra's state of the art laboratory.



IEC Standard Test: Major of Bahra Earthing & Lightning Products has been tested at ELEMKO and Pittas3rd Party Lab as per latest edition of IEC 62561

UL Listed:

Most of Bahra Earthing & Lightning Products has been UL Listed under Certificate E499299, E490699

SPECIAL FEATURES CONDUCTORS

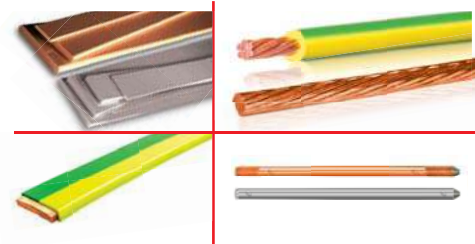
- Copper Tapes that are drawn from 99.99% Pure Copper Cathodes.
- PVC Coated Copper Tapes with color options maintaining aesthetics.
- Lead Coated Tapes for special applications.
- Anti-Corrosive Tin Plated variants.
- Radius Edges Ensuring Safety for Installers.

EXOTHERMIC WELDING

- Made from the optimum density Japanese graphite.
- New design with optimized mold life & Handling.
- Ergonomically designed for easier mold cleaning after every weld.

EARTH RODS & ACCESSORIES

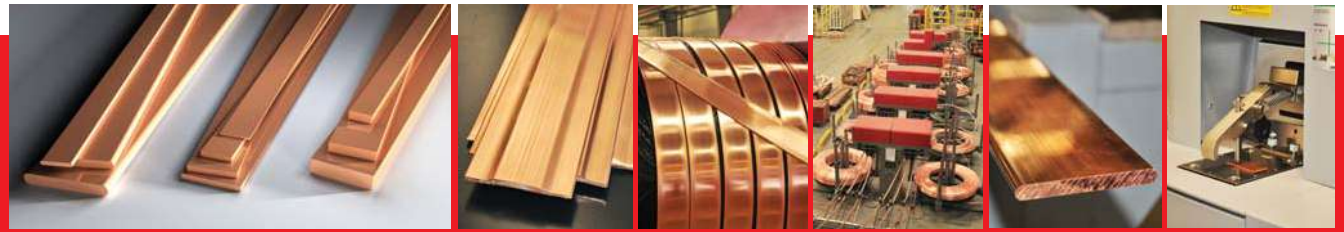
- Highly Conductive Solid Copper Rods.
- 254 Microns Copper Bonded Rods with tough mechanical strength.
- Ease of Installation.



Bahra Busbars has started production of a variety of high conductivity copper busbars, rods and earthing tape. The company sources of Copper from international LME registered companies.

The factory built with the European expertise, is completely integrated and equipped with the latest technologies in the field.

The new factory also eliminates the need for local sourcing of copper busbars, ensures superior quality production and creates more career opportunities in the region at the same time.

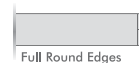


PROPERTIES

The raw materials are pure copper cathodes grade "A" with copper purity of 99.99%. This allows our high quality copper bus bar and rods to meet International Standards.

1. Volume Resistivity at 20°C/68°F 1.7241-1.7070 $\Omega\text{mm}^2/\text{m}$
2. Volume Conductivity at 20°C/68°F 58.00-58.58 MS/m
3. Density 8.91 g/cm³
4. Melting Point 1083°C
5. Excellent Corrosion Resistance

TYPES OF EDGES



Bahra Round Rods can be in the diameter range of:

1. Diameter: from 6mm up to 70mm.
2. Cross section area: from 30mm² up to 3800mm².

Bahra Copper tape can be in the range of dimensions as:

1. Thickness: from 3mm up to 5mm.
2. Width: minimum 10mm.
3. Cross section area: from 30mm² up to 3400mm².

Bahra Copper Tape type tested for Lighting Protection at Labelc

Bahra Busbars can be in the range of dimensions as described below:

1. Width: from 10mm up to 240mm.
2. Thickness: from 2mm up to 24mm.
3. Cross section area: from 30mm² up to 3800mm².

TINNED COPPER BUSBARS

Tinned busbars are manufactured by state-of-the-art Electrolytic Tinning process, using a computerized system, which provides the best quality of tinned busbars to be used in Electrical Panels, Switchgears and Transformers.

SPECIFICATIONS

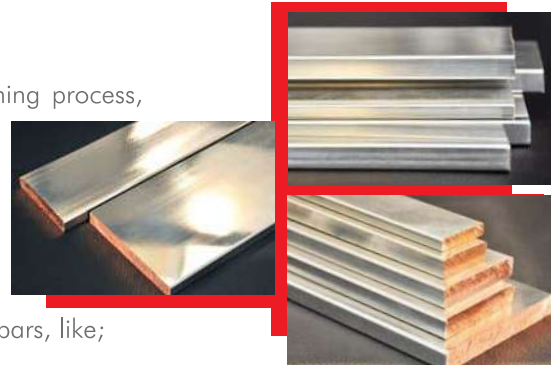
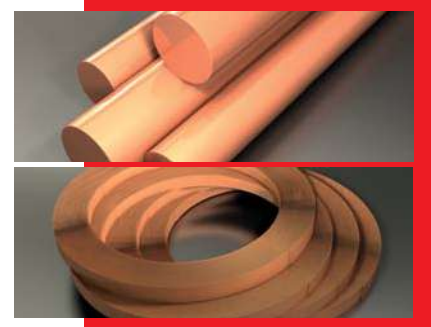
Coating thickness (default):

6 microns (Special coating thickness can be obtained upon request)

Purity of coating material: Minimum 99.85%, as per ASTM B339

Bahra labs are capable of performing all required tests for tinned busbars, like;

- Tin thickness test
- Adhesion test



SAFE, RELIABLE AND HIGH QUALITY



Bahra is a brand established in 2011 with a goal to develop a range of high quality Load Centers for residential and industrial applications.

Innovation is a key component in all our products, as our mission is to be the safest products in the market.

We promise our customers that we will continuously improve and develop our products to meet the fundamental cornerstones of our product: SAFETY AND RELIABILITY.

Bahra Load Centers are used for safe and reliable distribution of electrical power for indoor application in residential and commercial buildings. Bahra Load Centers are powered by the best selection of international proven quality of breakers by Eaton to provide reliable circuit protection against overload and short circuit.

DESIGNED TO SUIT IEC 2&1-61439

Bahra Load Centers are designed as per the latest IEC 2&1-61439 standards (January 2012) and are tested as per this standard in highly reputed international labs. This confirms that Bahra Load Centers meet the highest and latest worldwide standards.

Use of Eaton Breakers of high specification with high interrupting capacity secures the highest safety standards. It also increases durability and helps the product withstand electrical shocks. The use of the Circuit Breaker with Enclosure (CBE) provides your house with a double layer of protection.

Bahra Circuit Breakers with Enclosure are powered with the best selection of international proven quality of breakers by Eaton to provide reliable circuit protection against overload and short circuits.



With our first wiring devices range we at Bahra have designed a range that is simple and flexible, solid and colorful, over-engineered and unique in its features. We hope our products will awaken your senses to the multiple possibilities available in in a wiring device and inspire you to speak your own language with our products.



IP65 ENCLOSURE | SINGLE / DOUBLE DOOR OUT DOOR / INDOOR APPLICATION



APPLICATIONS

Bahra Enclosures are designed to accommodate various type of switchgear and controlgear assemblies suitable to all types of electrical installations especially for commercials and industrial sectors. They are designed for outdoor applications up to IP-65.



SPECIFICATIONS

- Made of high CR and GI steel sheet of thickness up to 1.2-1.5 mm Max.
- Matt-finished polyester epoxy powder coated in RAL 7035 color.
- Standard GI mounting plate with 2.0mm thickness with holes provision for earthing.
- Double door for the width more than 800mm are composed of swing handle with three point latch lock.
- Corner formed door to insure better water protection and gives aesthetic look.
- Perforated door stiffeners for more rigidity and for easy cabling and fixing accessories.
- Special profiled enclosure lip for better liquid protections.
Complies with IEC60529 & IEC 62208 standards.



Bahra Aluminum produce Aluminum Rods and Aluminum Alloy Rods, they are widely used in production of conductor for insulated power cables and overhead power transmission lines where the characteristics of aluminum are required. Aluminum Rod H12 used for insulated power cables has good conductivity, light weight and excellent compatibility with most common insulation used by the wire and cable industry.

Aluminum rod H14 and Aluminum Alloy 6201 used in Overhead Power Transmission Lines have good conductivity, light weight excellent resistance to corrosion and excellent mechanical properties.

PRODUCTS:

Bahra Aluminum produce 9.5 mm continuously cast and rolled aluminum rod and aluminum alloy rod complying with ASTM Standards B233 and B398

- H 12: Strain Hardened – $\frac{1}{4}$ Hard
- H 14: Strain Hardened – $\frac{1}{2}$ Hard
- Alloy 620



BAHRA Switchgear is a specialized manufacturer of Type Tested Low and Medium Voltage Switchboards.

Type tested High dependability Low voltage switchboards for power distribution and motor control center, suitable for Low voltage applications of both Fixed & withdrawable design up to 6300A. Compliant & certified as per IEC61439-1 and IEC61439-2.

Focusing on safety, reliability and adaptation to high-end needs including - Internal arc & seismic withstand.

The High performance type tested indoor metal clad Medium voltage switchgear is adapted to meet Saudi electricity specifications for 13.8kV Medium voltage primary distribution and industrial sites.

BAHRA SWITCHGEARS are securing well trained after sales & services teams for emergencies and customers support.





The power solutions for commercial and industrial sector applications



HIGH EFFICIENCY CAST RESIN TRANSFORMERS UP TO 5000 KVA

Bahra TBS high-quality cast resin transformer are the ideal choice for all needs thanks to their different advantages:

- Total safety for the customer, guaranteed by the total absence of combustible products
- Maximum environmental protection, thanks to the absence of polluting and flammable insulating liquids.
- Energy saving, with the exclusive “reduced loss” range.
- Maximum flexibility straight from the beginning of the installation.

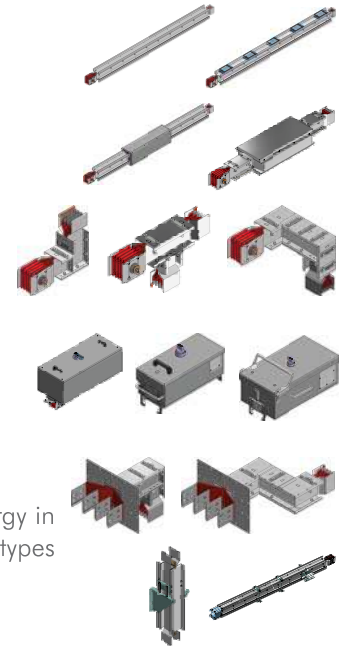




HIGH EFFICIENCY COMPACT BUSWAY FROM 800 TO 6300 A

The busway is the most modern solution for the distribution of energy in an installation for machinery, equipment and lighting fittings in all types of buildings.

The busway is also frequently used to power the (horizontal and vertical) backbones of buildings used for the commercial-service sectors, thus observing the time required for the installation and providing a final solution with remarkable technical advantages.



APPROVALS AND CERTIFICATES



Committed
to Standard



Intertek



Ref: 1301827
Ref: 1313493
Ref: 1313485



معيار الجودة الأوروبية
European Quality Mark
Certificate No. 0144/14/018-04-00075





EGYPT



CONGO



SUDAN



LIBYA



YEMEN



IRAQ



DCRP/PCR/2014/04

OMAN



هيئة كهرباء ومياه دبي
Dubai Electricity & Water Authority

UAE



LEBANON



ROYAL COMMISSION FOR JORDIA AND YANBU



الهيئة العامة للتخطيط العمراني
General Authority of Civil Aviation



We Refine Right



مدينة الملك عبد الله الاقتصادية
KING ABDULLAH ECONOMIC CITY



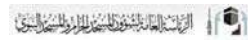
معدن
MADEN



الهيئة السعودية للمواصفات والمقاييس
SAR



الهيئة العامة لتحلية المياه المالحة
Desalination Water Corporation





UAE



Lebanon



Kuwait



Yemen



Iraq



Bahrain



Qatar



Sudan



Oman



Jordan



Egypt



Tunisia



Morocco



United Kingdom



South Africa



Nigeria



Libya



Senegal



Angola



DRC -Congo



Congo



Ghana



Kenya



Maldives



Niger



Eritrea



South Sudan



Azerbaijan



Mauritania



Bostwana



Afghanistan



Cameroon



Tanzania



India



Bangladesh



Pakistan



Sri Lanka



Philippines



Singapore



South Korea



Cyprus



Australia



Italy



Spain



Turkey



Germany



Netherland



Ivory Coast

TO MAKKAH

BAHRA TBS TRANSFORMERS & BUSWAYS

TO JEDDAH

HARAMAIN HIGH SPEED RAILWAY



WELCOME



Production 118,800
Testing 7,000
Warehouses 36,500
Open Storage Area 175,000
Offices 4,000
Roads and
Free Area 158,700

Total Area 500,000sqm

www.bahra-electric.com

GALVANIZING PLANT

DRUM YARD 2

WAREHOUSE

CABLE
MANAGEMENT
SYSTEM

WAREHOUSE

DRUM YARD 1

QC LAB

WIRES & CABLES

LOAD CENTERS

WIRING DEVICES

SWITCHGEAR
LV | MV | RMU

ENCLOSURES

ALUMINUM

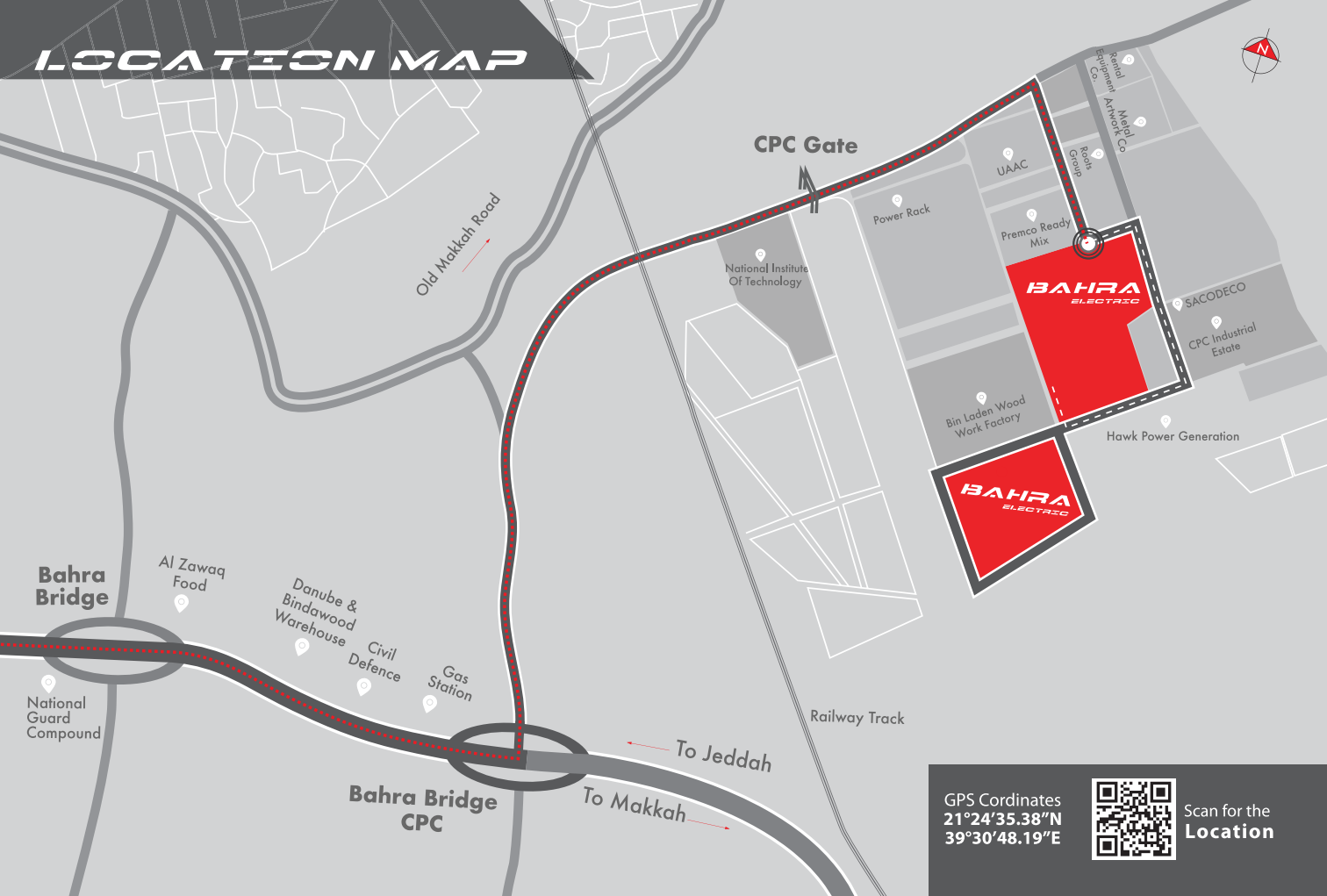
BUSBARS

PVC

EARTHING SYSTEMS

CONDUITS

LOCATION MAP



CPC Gate

Old Makkah Road

Bahra Bridge

Al Zawaq Food

Danube & Bindawood Warehouse

Civil Defence

Gas Station

Bahra Bridge CPC

National Institute Of Technology

Power Rack

UAAC

Premco Ready Mix

Bin Laden Wood Work Factory

Hawk Power Generation

SACODECO

CPC Industrial Estate

Railway Track

To Jeddah

To Makkah

GPS Coordinates
21°24'35.38"N
39°30'48.19"E



Scan for the Location



*Attach your
business card*

Bahra Advanced Cable Manufacture Co. Ltd.

P O Box 5989, Jeddah 21432, Saudi Arabia, Tel (966) 12 591 1115, Fax (966) 12 591 5683
sales@bahra-cables.com | export@bahra-cables.com

Customer Service: 800 124 8111

Member of  Group
"Your Complete Building Solution"