

**SAFETY AND TRUST
SMART TECHNOLOGIES**



Specialist in Electronic Low Voltage systems
Offering diversified solutions in security and automation systems

Enriched by expertise...

In every step of our business activity, we use creative ideas, pioneering technologies, and proven methodologies. BHE Systems WLL is backed by a dynamic team of technological enthusiasts.

18
Products

21
Partners



We are based in Bahrain and have an ever-powerful network of professional channel partner's network across the Globe; we are full-fledged to bring competitive and cost-effective services besides represent various reputed brands from Europe, Middle East, Africa and Asia Pacific. In an increasingly demanding and competitive world, our prime focus is to always stand responsive to global industry developments and bring in those waves of changes to the shore of our services.

Proven by character...

BHE Systems is built around its customers with a foundation based on innovation, responsiveness, and trust. We understand the challenges faced by businesses and individuals, and we are committed to improve them by offering the most advanced

technological products and breakthrough solutions. We promise only what we can deliver. And then delivering customer experience beyond expectation by standing strong to our core values – service, relationship, people-power, trust and integrity.



Service

We understand and determine what our customers want and service them with the highest standard of workmanship and professionalism.

Relationship

We believe in maintaining long-lasting relationships and fairness in all our dealings with our stakeholders.

People-Power

We value and encourage each one of our team member and motivate them towards further development.

Trust

We firmly believe trust and respect are essential for teamwork and successful project management.

Integrity

We are committed to demonstrating all aspects of our work with utmost integrity.



Access Control System



Audio Visual System



Barriers



Building Management System



CCTV System



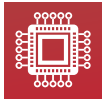
Fire Alarm System



Fire Fighting Extinguisher



Fire Protection System



Guest Room Management System



Home Automation System



Intercom



IPTV System



Lighting Control System



Nurse Call System



Public Address (PA) System



Parking Management System



SMATV System



Structured Cabling

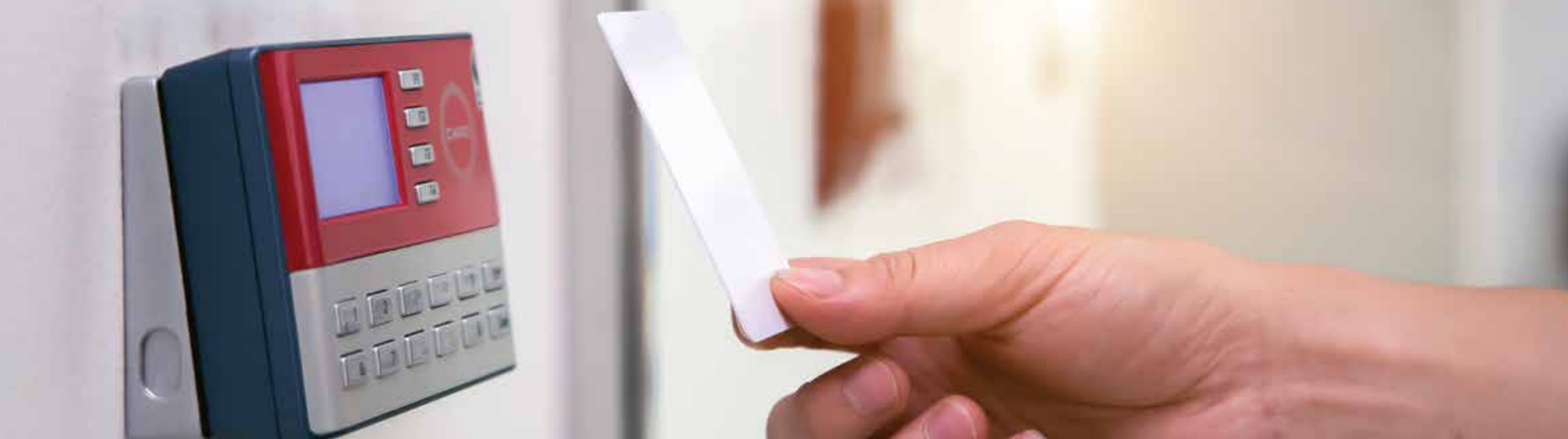


Covering all verticals...

The determination to succeed has always been at the forefront of our efforts to provide better solutions.

Hence, we have integrated solutions and system support for all sectors. We have the optimum solutions required for hotels/hospitality, healthcare, education, retail outlets, industries/corporates, real estate and builders, banks or

financial institutions, government/defense and for infrastructure development. We design and implement our solutions based on the understanding that every organisation or company operates differently, and that each has individual specific needs and requirements to ensure a smooth and effective operation of its business.



Access Control System

Brand: ZKTEK/HID

- ✓ An access control system determines who may enter/exit, where they are allowed to exit/enter, and when they are allowed to enter/exit.
- ✓ BHE Systems can design and implement different access control systems based on solutions from multiple vendors.
- ✓ We can implement simple standalone card readers up to a complicated networked solution.
- ✓ A full package comprises access cards and biometric readers, door controllers, turnstiles, road blockers and sensors.
- ✓ We customise solutions based on the size of organisations, as the importance of managing access to any premises cannot be over-emphasised.
- ✓ Expandability is the key word of our Access Control System. We can easily extend coverage area and controls if need arise for any future expansion.
- ✓ With virtually no-fall-out from your existing system, you can add on readers or controllers to upgrade your system with simplicity and ease as never before.
- ✓ We design our solutions based on the understanding that every organisation operates differently, and each has individual needs and requirements.



Audio Visual System

Brand: LG/ITC

- ✓ We have an assortment of AV system hardwares that includes video and telephone conference, HD cameras, interactive whiteboards, digital signage, computers, smartphones, tablets, wireless connectivity, and much more.
- ✓ AV systems used in retail spaces include presentation and collaboration systems, as well as background music systems for the halls of outlets.
- ✓ For large enterprises we use AV systems with control that integrate sound, video and system automation in their board rooms/demonstration rooms.
- ✓ Our brands offer high definition displays and audiophile grade speaker systems that can be integrated together at one centralised location.
- ✓ Numerous consumer-facing organisations are investing heavily in improving their front-end systems in a bid to impress their consumers.
- ✓ Apart from staying up to date with the latest tech, some of the benefits of refreshing your Audio Video (AV) Technology are as follows:
- ✓ You can save money on maintenance, and system upgrades while using the most efficient and integrated systems.
- ✓ Overall, the latest AV systems improve the functionality of your premises and can boost communication and productivity.



Barriers

Brand: CAME/BFT

- ✓ Gates, barriers, quick barriers are the ideal solution for selecting access points in residential/industrial areas, even when traffic volumes are high.
- ✓ We can install automatic gate barriers for passage up to 12 M with an extra feature of having power supply at 24 V.
- ✓ This low voltage technology is safe and essential for passages of intensive use. It allows to get maximum efficiency with special control features.
- ✓ For property managers serious about controlling building access, there is no better choice than our encoder-based movement control.
- ✓ Our units can do self-diagnosing and are set up for operation in case of a power outage.
- ✓ We can supply control board with terminal blocks, dip switches and storage for over 20 users.
- ✓ Our readiness to use automated units comprises several ranges. You can choose from our high-end entry panels that have fixed and rolling codes.
- ✓ We also have a range of units that can be managed via bluetooth technology from any handheld device.



Building Management System (BMS)

Brand: Siemens, Build Suite

- ✔ BMS systems are “Intelligent” microprocessor-based controller networks installed to monitor and control buildings technical systems and services for an improved tenant comfort condition.
- ✔ These systems link the functionality of individual pieces of building equipments such as air conditioning, ventilation, lighting and hydraulics, so they operate as one complete integrated system for premises.
- ✔ Technology has enabled the direct integration of these systems to other building services such as security, access control, CCTV, fire, lifts and other life saving systems.
- ✔ Current generation BMS systems are based on open communications protocols and are web-enabled. This allows integration of systems from multiple system-vendors and can be accessed from anywhere in the world.
- ✔ The primary function of the BMS is the control of buildings Heating, Ventilation and Air Conditioning Systems (HVAC) including: Air Handling Units, Chilled Water Plant, Cooling Towers, Tenant Condenser Water, Heating Water Plant, Exhaust Systems, Zone Controls, Computer Room AC.
- ✔ The Day to Day Role of the BMS include:
 - Control of Building Systems and Services
 - Graphic User Interface (GUI)
 - Real Time Monitoring of Building Operation and Performance
 - Trending and Logging of Building Operation and Performance
 - Time Scheduling of Building Systems
 - Fault Management and Alarming
 - Control Application Programming
 - User Event Management
 - Energy Management and Reporting (NABERS)



Closed-circuit television (CCTV)

Brand: Bosch, CPplus, Dahua

- ✓ BHE Systems have extensive experience in designing and installation of different CCTV security surveillance solutions.
- ✓ We carefully assess our clients' requirements and then design, install and maintain cost-effective security systems that exceed expectations.
- ✓ Vigilance systems provide a sense of security to the property owners as they allow people to keep a watch over the property from remote location.
- ✓ The latest cameras allow you to set up an intruder alarm, making it easier to take action and call authorities in case of a burglary attempt.
- ✓ We have successfully implemented CCTV systems for large and small enterprises from brands Bosch, CPplus, Dahua, HIK Vision, Samsung, etc.
- ✓ The sight of CCTV cameras is effective in discouraging thieves and burglars as they are the perfect deterrents.
- ✓ Be it analog or IP-based solutions, these systems also provide evidence in case there is some criminal activity.
- ✓ Further more these systems can now manage location capacity and share in store analytics on floor traffic.



Fire Alarm and Protection Systems

Brand: LIFEKO

- ✓ We should consider fire safety a priority, Have your preparedness plan ready with our extra-low voltage safety solutions.
- ✓ We supply smoke detectors, fire alarm, and control panels of all sizes and types to detect fire/smoke and to alert inhabitants. One of the most reliable product in this range is our 'Fire, Gas and Extinguishant System'.
- ✓ If you do not install smoke detectors, the consequences are far-reaching and could cause a loss of a property/life. We install smoke barriers for controlling the spread of any harmful gases.
- ✓ A fire alarm control panel will sound an alert in the event of a fire, and we can enable this with voice evacuation systems for remote use.
- ✓ Our systems run with intelligent signal processing and algorithms for precise detection and can differentiate actual fires and false alarms.
- ✓ We use state-of-the-art fire detectors that detect flames and smoke at the source and thus, provides reliable fire detection within seconds, especially in environments with high ceilings.
- ✓ Each of our system meets the highest standards for quality, safety and functionality and offers exceptional flexibility and options for expandability.
- ✓ To empower you with innovative services for increased efficiency and profitability, we can also create remote services over IP for fire systems.



Fire Fighting Extinguishers

Brand: LIFECO

- ✓ A fire extinguishing system is an engineered set of component that work jointly to detect a fire, alert occupants, and extinguish the fire before extensive damage can occur.
 - ✓ All system components are designed and approved for use on the specific fire hazards they are expected to control or extinguish.
 - ✓ Fire fighting equipments comprises large tanks, pumping system, network of pipes, hydrants or sprinklers and portable extinguishers.
- ✓ An extensive array of fire extinguishers spanning gas, chemical, powder and water variants can be supplied to protect your premises and occupants from almost any eventuality.



Guest Room Management System

Brand: Interel/Domotics

- ✔ We offer turnkey solutions for Guest Room Management System (GRMS) that include some important features like: occupancy sensors, access control, guest control interfaces, AC/HVAC, courtesy, bedside console, integration with smart phones, PMS/BMS, programmable lighting, dimming, curtain control, music volume, temperature control and other control functions through advanced touch panel interfaces for better guest experience management.
- ✔ For hospitality sector, we have customised solutions in order to save energy, to give more comfort and to provide high-level security in rooms. We have optimal design and interface layout with which the brand look-n-feel can be easily incorporated into our products. Moreover, our intelligent systems are designed based on interactive technology that complements the exceptional experience you want for your guests.
- ✔ The different ranges of switches and varying layers of control inside hotel rooms depend on the budget and requirements.
- ✔ Our solutions make hotel staff capable to competently administer guest room energy utilisation and ensure success in providing optimal in-room experience.
- ✔ We can easily integrate advanced GRMS products with building management controls to ensure better resource management.
- ✔ We also have advanced motion sensors integrated into the glass panels for most efficient guest presence detection.



Home Automation System

Brand: Interra, Domotics

- ✓ Being able to keep all the technology in your home connected through one interface is a massive step towards home management.
- ✓ Theoretically, all you must do is learn how to use one app on your smartphone/tablet, and you'll be able to tap into countless functions and devices throughout your home.
- ✓ Smart home systems are wonderfully flexible with the accommodation of new devices that you'll probably add to your suite of devices as you replace the older ones or discover new technology.
- ✓ You can also choose to receive security alerts on your various devices as alert goes off, and monitor activities in real-time whether you're in the house or halfway around the globe.
- ✓ Smart home systems offer you a remote control to function your home from distance - be it to control AC, preheat your food, or to control lights.
- ✓ Depending on preference, you can use smart-home technology to make your space more energy-efficient by programming devices to turn on/off.
- ✓ Ultimately, connecting your appliances like TV/music system etc with automation technology will improve your appliance effectiveness and overall make your home life much easier and enjoyable.
- ✓ Get ready to keep tabs on your secondary home or rental property and automatically shut off water when leaks are detected just at a click/voice.



Intercom

Brand: Alcad/Panasonic

- ✓ We offer a full range of door entry systems for the domestic market. Starting from the basic model (single station door entry residential kits) to the most sophisticated video entry systems.
- ✓ An impressive range of audio and video door entry telephones is available incorporating the features and functions that are most demanded.
- ✓ The audio and video entry security phones are extremely convenient for verification and identification of persons requesting entry. This can range from a single door audio unit to multiple doors video systems.
- ✓ Video entry systems have the added advantage of visual verification before allowing access through releasing door locks.
- ✓ Our range includes many unique advantages with the wide varieties of colors and shapes of push button, double-call push-button and digital entrance panels.
- ✓ We can also supply monitors in monochrome or color version including image memory.
- ✓ Our trained engineers suitable for high-rise building can design highly advanced systems using LCD monitors and multiple entrances to facilitate easy access to your tenants.



Multimedia-IPTV

Brand: Alcad

- ✔ IPTV or Internet Protocol Television is a system through which we deliver television via Internet Protocol (computing means) instead of the classic cable optics or satellite means.
- ✔ IPTV is not limited to television with cable hookups, but can be accessed through TVs, PCs, tablets and smart phones.
- ✔ This means that users can stream everything from live television to movies from any device with an internet connection. IPTV is quickly becoming popular for trends towards mobile devices and video on demand.
- ✔ IPTV content is easily searched, and can also offer a custom user interface which displays content based on consumer preference.



Lighting Control Systems

Brand: Interra, Siemens, GVS

- ✓ BHE Systems can offer a wide variety of lighting controls that combine sophisticated design with state-of-the-art technology.
- ✓ Systems include architectural controls, day lighting controls, dimmers, fan speed controls, occupancy sensors, relay panels, timer switches and more.
- ✓ Lighting controls can detect dusk and dawn, helping to conserve energy while adding to the beauty and security of your building and grounds.
- ✓ These control systems allow you to set the mood of the space using the colour change and light density settings that are precise.
- ✓ The intelligent network-based lighting control solution controls offer the potential for significant energy savings and complement any residential or commercial application.
- ✓ Smart lighting settings allow shades and lights to turn on and off at intervals to simulate occupancy inside of your home while you're away.
- ✓ All interior and exterior lights can also flash repeatedly if it triggers an alarm, alerting neighbors or authorities of unusual activity or unauthorised access to your property .



Nurse Call Systems

Brand: Alcad

- ✔ Hospitals and Nursing care homes use this innovative product to give reliable service on patient care that connects guests to caregivers.
 - ✔ The standardised system transmits personalised alarms, documents the calls verifiably, and escalates the alarms on several levels.
 - ✔ The core task of the system is the safety of the patient, who is always at the focus of the considerations. Using this technology, the patients, nursing staff and operator have the best protection.
- ✔ The systems include bed head console, light control, operating room call systems, nurse station phones, extended emergency switches, call cords and pillow speakers.



Public Address (PA) Systems

Brand: IC Audio, BOSCH, ITC

- ✓ We can offer the latest and the whole gamut of technology in PA systems, ranging from built-in or portable solutions to high-end paging systems.
- ✓ PA system is the use of an amplifier, microphone and loud speakers which permit a person to address a large public, be it a get together gathering event or a music concert.
- ✓ A standard package includes paging microphones, mixer amplifiers, wall and ceiling speakers, attenuators and controllers that form an end-to-end solution.
- ✓ Our systems have the capability to interface with other related systems as well and our experienced engineers can guide you through the process of selecting matching equipment to budget to achieve the best results.
- ✓ Our solutions are fully compliant with EN-certification for fire and EVAC on life safety standards.
- ✓ We can include audio processing in systems for corporate boardrooms, conference rooms, training facilities, leisure facilities, videoconferencing and teleconference suites.
- ✓ Hospitality, commercial and leisure facilities can install a background music system, multi-media / multi-room audio visual applications to improve their customer experience.
- ✓ Educational institutes can benefit from our classroom sound and speech reinforcement systems, vision, projection and whiteboard systems.



Parking Management Systems

Brand: JIESHUN

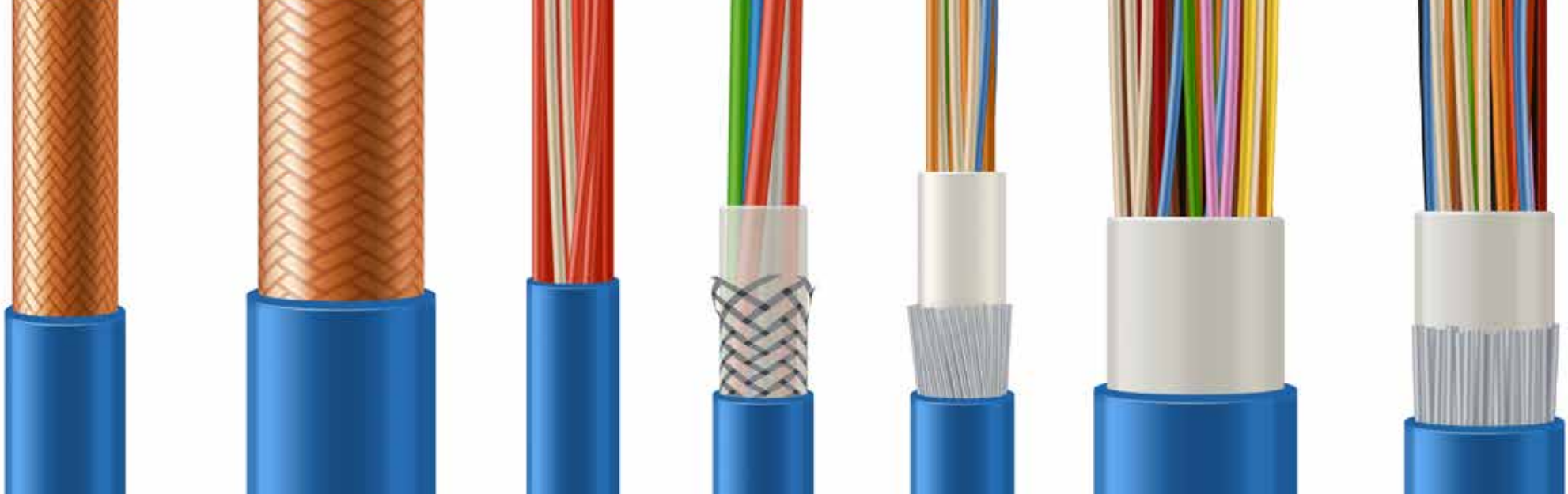
- ✓ Whether gateless or gated, the car park management system will help operators manage and control the access to the parking area.
- ✓ Based on an advanced combination of hardware and software, the system also manages the payment of the parking zones.
- ✓ This system provides an optimisation of the revenue for the car park operator through reduced operating cost.
- ✓ Car park management system includes entries, exits, access management and payment collection system or payment at exit.
- ✓ It is possible to integrate pre-booking function for this system, including traffic flow and parking guidance management systems.
- ✓ The growth of Parking Management System market is mainly attributed to the growing demand for AI-based services, increasing need for parking spaces, and growing focus on seamless traffic flow.
- ✓ Get ready to monitor and control your parking area with the latest systems handling e-mapping and vehicle searching technology.



SMATV System

Brand: TRIAX, ALCAD

- ✓ Digital Satellite Master Antenna Television (SMATV) is a cost effective type of TV distribution system which would suit communal properties.
- ✓ Digital SMATV captures and decrypt (as necessary) a chosen selection of channels, including your local off-air channel.
- ✓ We then combine the selected channels onto a coaxial cable distribution system for viewing on a standard Freeview Digital TV receiver.
- ✓ We provide RF PAL /Analogue Cable TV system in which the DVB Satellite signals will be converted to audio-video signals using DVB S/S2/S2X Tuners then to a PAL AV modulator to create 1 RF Channel.
- ✓ SMATV IF System is a community distribution system for signals received via satellite, terrestrial networks, or radio.
- ✓ We connect multiple satellite signals to multi switches. These switches distribute signals to the end-user, they then can use satellite receivers/decoders to receive the channels.



Structured Cabling

Brand: NETBOX

- ✓ BHE Systems is a full-service network cabling provider with the resource to design and connect network supported devices, transfer data and information between switched, routers, data storage, IP phones, etc.
- ✓ We engage in cable laying, installation of the connector—faceplates, network cabinets and testing of cables. Voice cabling and Data cabling are the significant elements of your network.
- ✓ Depending on the requirement, cables can be unshielded twisted pair (UTP), screened (foil) unshielded twisted pair (F/UTP), shielded twisted pair (STP), or multi-mode or single mode fiber optics.
- ✓ The most commonly used network cable types are twisted pair cable. We use this for connectivity in many ethernet networks.
- ✓ We use fiber optic cabling where high bandwidth is needed, or the length of the cable required for connectivity is more than UTP cable can handle. Fiber optic cabling is available in single mode and multi-mode forms.
- ✓ SFTP cables are copper cables more appropriate for network wiring in buildings which are subjected to high electrical interference or frequent radio transmissions.
- ✓ UTP Data Cabling prevents alien crosstalk through a cable shield. The design of these screened data cables resists deformation and allows less restrictive installation practices.

Project References



1

Al Dair Village
Consultant: Emaar Engineering

Installations: CCTV, Fire Alarm,
PA System, Structured Cabling

2

Diyar Car Wash
Consultant: Emaar Engineering

Installations: CCTV, Fire Alarm,
Structured Cabling

3

Three Storey Building, Diyar
Consultant: Ayman AlSaeed
Architects & Engineers, MEEB

Installations: CCTV, Fire Alarm,
Structured Cabling, SMATV

4

14 Storey Building, Busaiteen
Consultant: Al Jazeera Engineering

Installations: CCTV, Fire Alarm,
Structured Cabling, SMATV,
Intercom



Project References

5

Adliya Curve
Consultant: Al Jazeera Engineering

Installations: CCTV, Fire Alarm,
Structured Cabling,

6

Adliya Five-Storey Building
Consultant: Arab Architects, SJM

Installations: CCTV, Fire Alarm,
Structured Cabling, SMATV

7

Youth Care Facility Center, Ali
Consultant: Elevations

Installations: CCTV, Fire Alarm,
SMATV, Nurse Calling System,
Access Control, Barriers,
Structured Cabling, PA System



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