



COMPETITIVE
PRICE &
QUALITY

QUICK
RESPONSE &
DELIVERY

LONG TERM
RELATIONSHIP

CUSTOMER
SATISFACTION

A TOTAL SOLUTION
PROVIDER FOR THE POWER INDUSTRY



QUANTUM
RENEWABLE SYSTEMS



POWER CABLE & ACC

1. HV & EHV POWER CABLE & ACCESSORY

Extra high voltage cable, 66kV

- Copper aluminum conductor, stranded circular compacted circular or segmental compacted circular conductor,
- XLPE(Cross- Linked Polyethylene) insulation.
- Copper wire shield (CWS), corrugated aluminum, lead alloy sheath.

Cable accessory for, 66kV

- Pre-molded joint (PMJ),
- Outdoor termination (silicone or porcelain).
- SF6 gas termination (IEC plug in type)



EHV Power Cable



Pre molded joint



GIS termination



Outdoor termination

2. MV & LV POWER CABLE & ACCESSORY (1kV ~ 33kV)

Low voltage cable, 0.6/1kV

- 0.6/1kVXLPE insulated cable for power of lighting in building
- CV(PVC sheath),CE(PE sheath), TFR-CV(Flam retardant PVC sheath)
- HFCO(Halogen free polyolefine sheath)

Medium voltage cable, 3.3kV, 6.6kV, 11kV, 22kV, up to 33kV

- 0.6/1kVXLPE insulated cable for power of lighting in building
- CV(PVC sheath),CE(PE sheath), TFR-CV(Flam retardant PVC sheath)
- HFCO(Halogen free polyolefine sheath)
- CVT (PVC Sheath Triplex Cable), CET(PE Sheath Triplex Cable)

- 22kV, 33kV XLPE insulated cable for direct buried or grounding
- CNCE, CNCV-W, FR CNCO-W, TR CNCV-W,,TR CNCV-W



Triplex Cable

MV accessory for, 66kV, 15kV, 25kV, 35kV cable

- Single piece indoor or outdoor cable termination
- Straight cable joint
- Modular type indoor or outdoor cable termination
- Plug in termination for GIS



Cable Termination kit



Straight cable joint



Plug in termination for GIS

3. INDUSTRIAL CABLE & WIRE

PVC insulated wire

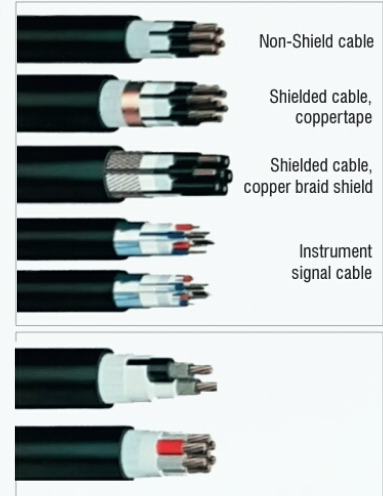
- Building wire, wiring of in-building or electric instruments for 450/750V
- Building wire with Halogen Free Polyolefine insulated (HFIX)
- Earthing of electric instruments or facilities for 0.6/1kV, High Flame Retardant (TFR-GV)



Control cable

- Non-shield cable, remote/auto control of electric facilities at power plant or factory for 0.6/1kV
- Shield cable(copper tape/ copper braid shield), control circuits of 0.6/1kV, where electrostatic shielding is required
- Instrument / signal cable, electric signal transmission of control or monitoring circuits for 0.6/1kV

- . PVC insulation / XLPE INSULATION
- . PVC sheath / PE sheath
- . High flame Retardant PVC Sheath
- . Low Toxic Flame Retardant Polyolefine Sheath



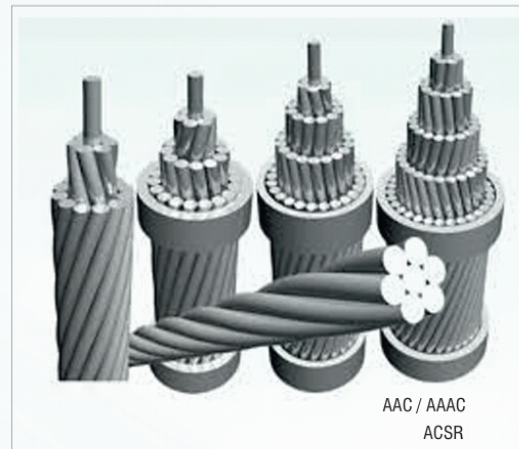
Fire retardant cable

- Fire Retardant Cable for Fire fighting emergency power or control circuits
- of fire fighting equipment power distribution line of emergency facility like speaker, lighting and alarm.

4. OVERHEAD TRANSMISSION

Aluminum conductors

- AAC (stranded hard-drawn all aluminum conductor)
- ACSR (Aluminum Conductors Steel Reinforced), ACSR /AW
- AAAC (stranded all aluminum-alloy conductor)
- Anti corrosion ACSR with grease



AAC / AAAC
ACSR

5. EARTHING MATERIALS

- Bare copper stranded conductor
- Copper earth rod
- Driving head
- Various clamp for conductor rod
- Cable lug
- Earth bar
- Clamping tool



Copper earth rod Standard UL-467



Various Cable lug



Various clamp for copper rod



Bare copper stranded conductor



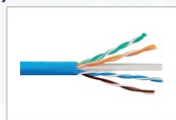
Terminal pad for high voltage cable

COMMUNICATION (DATA) CABLE & ACC

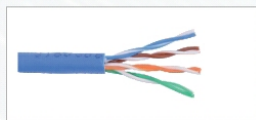
1. DATA CABLE

UTP(Unshielded twisted pair) cable

- Cat. 6A - 4P
- Cat. 6 - 4P
- Cat. 5E - 2P
- Cat. 6E - 4P
- Cat. 5E - 25P
- Cat. 5E - 2,P 4P (outdoor)
- Cat. 5 - 25P ~ 100P
- Cat. 3 - 25P ~ 600P



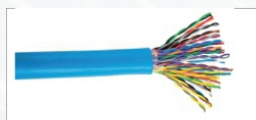
Cat. 6A - 4P



Cat. 5E - 4P

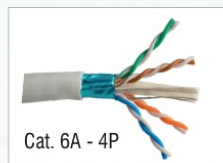


Cat. 5E - 25P

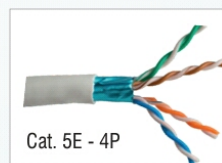


Cat. 3 - 25P~600P

FTP(Overall foil shielded, twisted pair) cable



Cat. 6A - 4P



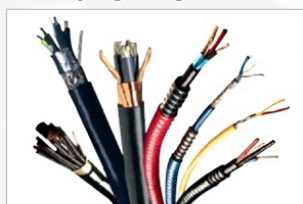
Cat. 5E - 4P

STP(Overall foil shielded, foiled twisted pair) cable

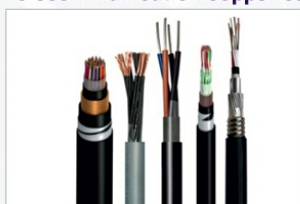


2. COMMUNICATION CABLE

Railway signaling cable



Telecommunication copper cable



Coaxial cable



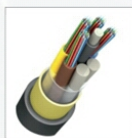
COMMUNICATION (FIBER) CABLE & ACC

1. LOOSE TUBE TYPE



Duct fiber cable

- Dry type
- Jelly filled type
- Laminated aluminum tape (optional)
- Glass yarn or aramid yarn for non-metal strength member



ADSS (aerial)

- Aerial dielectric self supporting cable
- Armored layer : aramid yarn (lashing aerial type - steel tape)



Direct buried fiber cable

- Steel tape armored type
- Steel wire armored type



Fig 8 cable (aerial)

- Armored layer : copolymer coated steel tape
- Suspension wire : galvanized steel wire
7/2.0mm, 7/1.6mm, 7/1.2mm, 7/1.0 mm steel wire

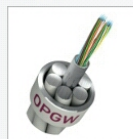
2. OPTICAL FIBER GROUND WIRE (OPGW)

- Excellent crush resistance performance
- Maintenance data information system
- Power line protection
- Good resistance to strong winds, lightening and short circuit current



Stainless steel loose tube type

- Tube : stainless steel tube



Central stainless steel loose tube type

- Tube : stainless steel tube



Non-metallic loose tube type

- Loose tube : Thermoplastic material (polybutylene terephthalate)
- Aluminum tube



Al covered steel loose tube type

- Tube : stainless steel tube
- Aluminum tube

TRANSFORMER

1. POWER TRANSFORMER

Power transformer

- Rated capacity : up to 1,500MVA
- Rated Voltage : up to 800kV
- Oil immersed transformer
- Single phase or three phase transformer
- Multi winding transformer



2. DISTRIBUTION TRANSFORMER

Oil immersed transformer

- Rated capacity : up to 5,000KVA
- Rated voltage : up to 22.9kV



Cast resin transformer

- High stability and durability
- Self-extinguishing characteristic
- Easy transportation and installation



Dry type transformer

- Non-flammability, non-explosion
- Easy maintenance
- Applicable to ship building, power & chemical plant



Pad mounted type transformer

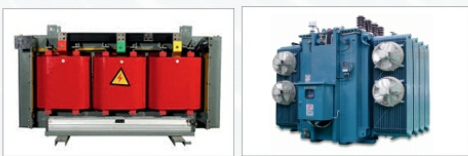
- Down town, school, factory area where the electric cable is transmitted by underground.
- Safe by no outer exposure of power part.



3. OTHER TRANSFORMERS

Amorphous transformer

- Amorphous magnetic material
- High efficiency energy and power saving transformer
- Reduce the rate of no-load loss more than 75% comparing to the existing transformer



Pole mounted transformer

- General type pole mounted transformer
- Amorphous core type pole mounted transformers



Solid insulation distribution transformer (SIDT)

- Safety oil free, fire resistant
- High efficiency
- Environment friendly
- Under ground installation



Mobile transformer

- Quick transportation
- Require no assembly



4. TRANSFORMERS OIL

ESTRAN is based on a unique patented blend of paraffinic and naphthenic base oils

- Excellent oxidation stability
- Excellent thermal stability (cooling)
- Very stable dielectric barrier
- Oil type
- U-type and I type transformer oil
- Vegetable oil

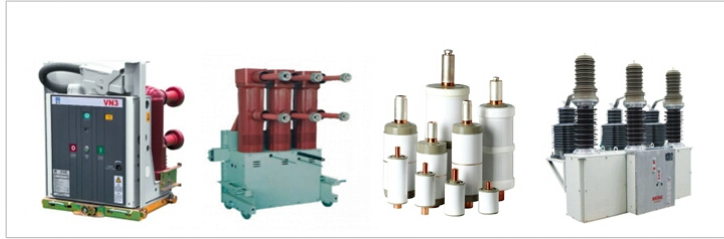


ELECTRIC POWER COMPONENTS

1. MEDIUM VOLTAGE BREAKER & SWITCH

Vacuum circuit breaker (VCB)

- From 7.2kV to 36kV
- Installation type : N(Fixed), E(Draw out), F(Safety shutter), G(Bushing)
- Optimal arc extinguishing with high vacuum
- Core part of the interruption (VI, vacuum interruption) is molded and solid insulated.



Load break switch (LBS)

- Excellent breaking performance and safety
- Standard type / fuse mounting type (100A)
- Operating : motorize or manual
- LBS breaking capacity E3 class



Auto section switch (ASS)

- Standard type / LA + PF combination type
- Standard type / vertical type / horizontal type
- Operating : motorize or manual



Vacuum contractor switch (VCS)

- Minimum switching surge with optimal Vacuum interrupter
- Optimal switching capacity for motor and condenser
- Multiple installation method fixed, draw out, PF mounted type



Vacuum transfer switch (VTS)

- Transfer sequence : A<-->off<-->B
- Medium Voltage load transfer with vacuum interrupter
- Small and light weight for 2 stage installation



Cut out switch (COS)

- Withstand the interruption force of heavy fault current and typically forceful closing by operator
- Fiberglass core with inserts



Line disconnect switch (DS)

- Protect personnel while working on operational equipment
- Base & main frames of the switches are galvanized
- Manual operating handle
- Hook stick actuator

2. LOW VOLTAGE BREAKER & SWITCH



Molded case circuit breaker (MCCB)

- Multi type with breaking capacity
- MCCB/ELCB same frame size for interchangeable
- Multi auxiliaries (AX, AL, UVT, SHT)



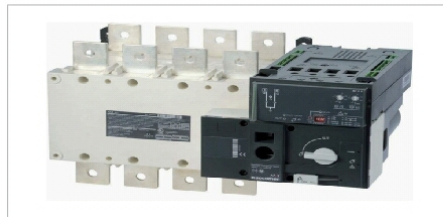
Air circuit breaker (ACB)

- Short breaking time and maximum safety and protection functions.
- Multi function digital trip relay



Earth leakage circuit breaker (ELCB)

- Multi type with breaking capacity
- MCCB/ELCB same frame size for interchangeable
- Adjustable sensitive current max 500mA



Automatic transfer switch (ATS)

- General W type: Suitable for small inductive load current
- General WN type : High transfer performance for inductive load current
- CTTS type (closed transition transfer switch): mutual interlocking (utility and gen set) synchronous transfer performance



Magnetic contractors / switch

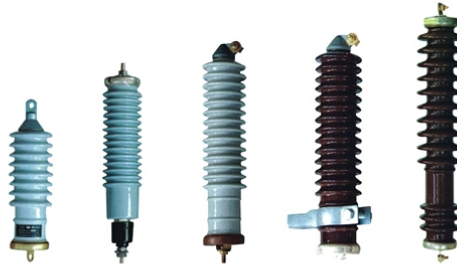
- AC/DC combined use 100~240V
- Draw out type operating coil, easy to access
- Optimal voltage deviation response, AC operating, DC energizing

3. PROTECTIVE COMPONENTS



Surge protective devices (SPD)

- Power SPDs and communication SPDs
- Direct lightning strike (class I test)
- Indirect lightning strike (class II test)



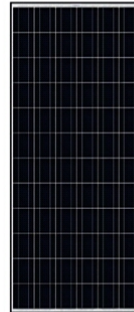
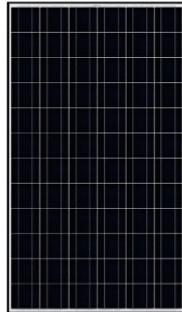
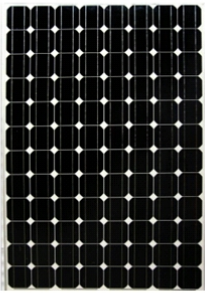
Lightning arrester

- Excellent humidity tightness characteristics
- Prevention of explosion scattering with polymer type insulator
- Ideal steep response characteristics by gapless type

SOLAR PRODUCTS

1. SOLAR MODULE

- High performance
- High efficiency
- High quality
- High power
- High yield solar system



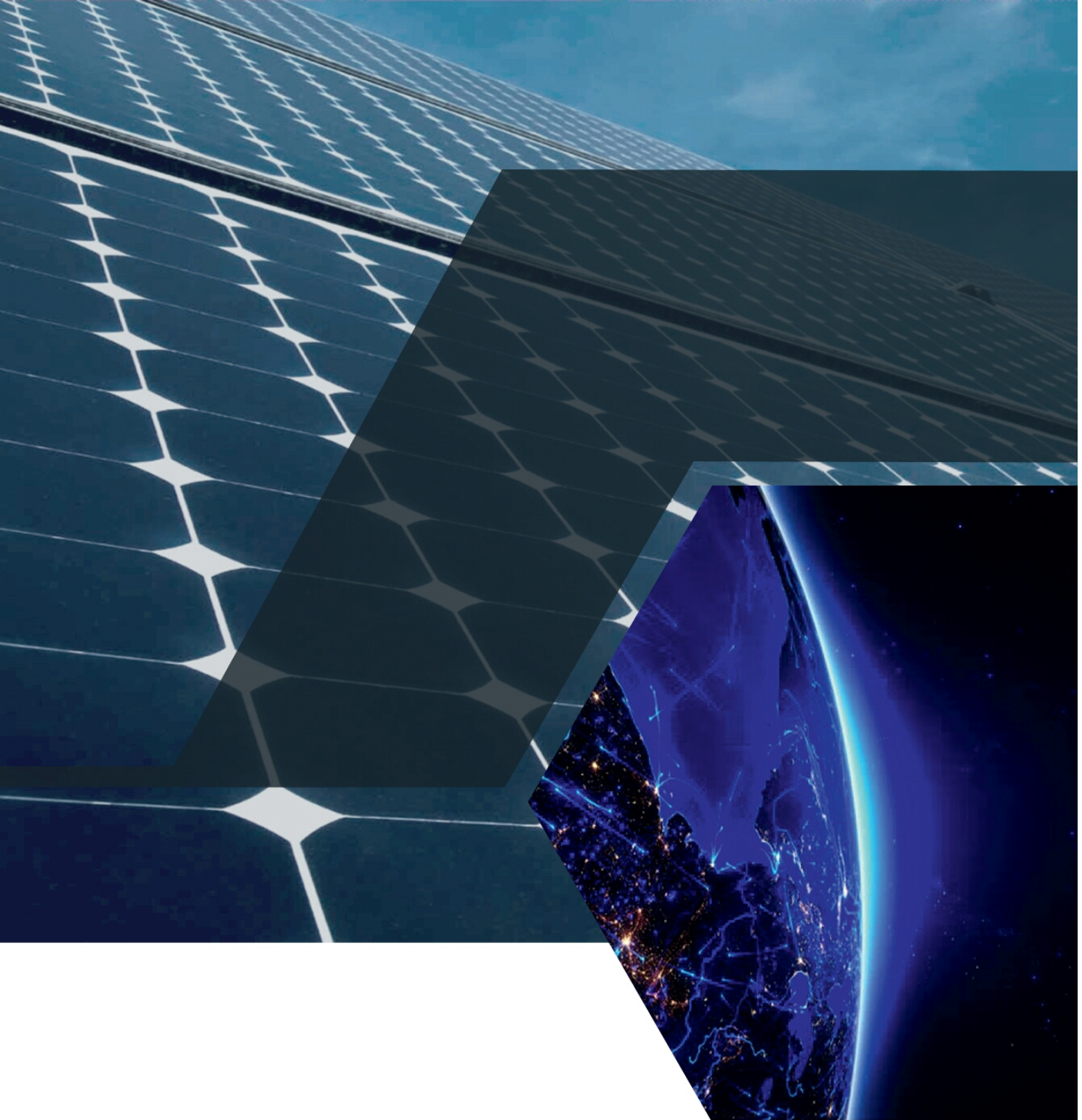
2. SOLAR OUTDOOR LIGHTING



- LED Lamp



- Bamboo S



QUANTUM

RENEWABLE SYSTEMS

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