

دوڪاب Ducab



دوڪاب - HV
Ducab - HV

DAC
شركة دوڪاب آلومنيوم
Ducab Aluminium Company

**AET
CABLES**

A Ducab group company

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MILESTONES IN DUCAB INNOVATION

1979

Ducab formed as a joint venture between Dubai Government and BICC Group of the UK



2001

100% UAE company, jointly owned by Government of Dubai & Abu Dhabi



2005

Ducab sets up the 2nd facility in Abu Dhabi Musaffah

2008

Ducab acquires its 3rd UAE facility and opens Copper Rod factory in Musaffah



2009

HV Ground
Breaking

دوكاب - HV
Ducab - HV

2011

Ducab HV a joint venture with
DEWA & ADWEA opened

2014

Acquires AEI Cables in UK
www.aeicables.com

**AEI
CABLES**

A Ducab group company

2016

Ducab Aluminum

DAC
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Ducab Aluminium Company

PROFILE



Ducab is a technologically advanced cable manufacturing company, jointly owned by the Investment Corporation of Dubai and Senaat (General Holding Corporation, Abu Dhabi).

Established in 1979, since then the company has become a global leader in the development, design, manufacturing, marketing and distribution of copper and aluminum wire and cable products for a variety of industry verticals. It is the first choice for many prestigious clients and contractors due to its record of quality and customer service. Ducab has 5 manufacturing sites across Abu Dhabi, Dubai and the UK that includes 7 independent manufacturing facilities that support its continuous growth.

The manufacturing capability of Ducab is over 115,000 metal tonnes of high, medium and low voltage cables and 110,000 tonnes of copper rod and wire per annum. The products adhere to strict global standards and address the cabling needs for the energy, general construction, industrial, defence, transport and specialty industry verticals. Ducab cables are approved by the Loss Prevention Certificate Board (LPCB), BASEC, DNV-GL, BV, ABS, UL, and Lloyd's Register amongst many others.

The product range includes copper rods and wires, (EC) grade aluminum alloy rods, wires, and bare overhead conductors. High Voltage cables up to 400kV, Medium Voltage cables up to 33kV, Low Voltage power cables, control & auxiliary, wiring and lead-sheathed cables, Low Smoke Zero Halogen cables, Fire-Performance cables and cable components and cable accessories.

Through expanding its world-class facilities across the Middle East, North Africa, Europe, Australia and India, the innovative journey meets the growing demand of customers. Ducab prides itself on setting and maintaining the highest quality standards of power cables. Experienced and highly skilled employees operate state-of-the-art equipment, and conduct extensive testing at every phase of production.



INTERNATIONAL PROJECTS:



Kuwait Oil Refinery



Zero Carbon Center
Hong Kong



London
Underground



Nuclear Barakah



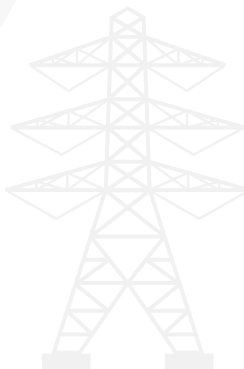
Singapore Metro



Galaxy Macau



Mecca Tawaf



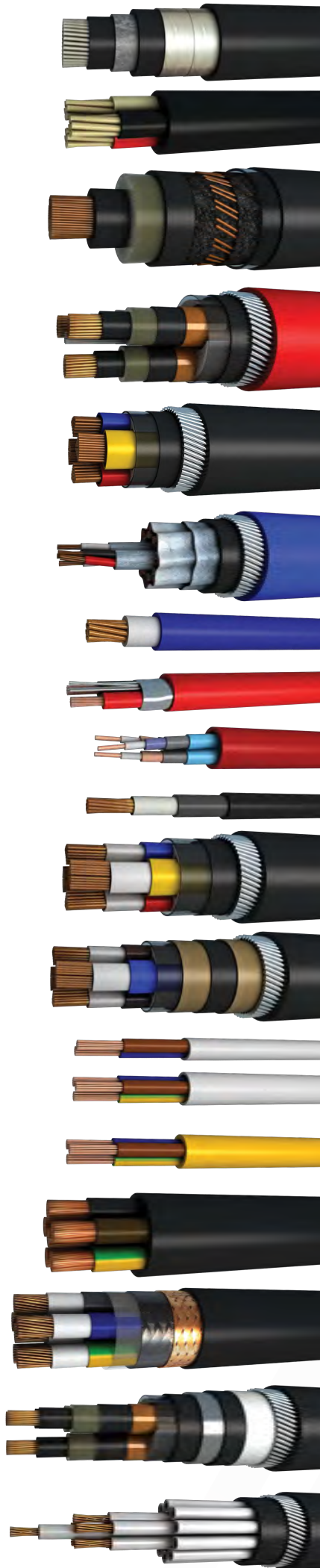
OUR PRODUCTS

When it comes to advanced cable solutions, Ducab continues its status as the superbrand across the world in 40 countries.

Ducab product range covers strong rate of development in specialised products by introducing product lines that are designed for particular sectors, such as PetroBICC, designed for the Oil, Gas and Petrochemical sector, RuBICC, with flexible rubber cables, MarineBICC for ship wiring cables, FlamBICC the Fire-Performance cable series, and NuBICC, which is our 60-year certified cable range for nuclear power plants.

The general cable usage/segregation is as mentioned here in the profile. However, some of the cable Types are used in more than one sector.

This Profile provides general information about the available product range; separate catalogues are available for specific range of Ducab cables.



SECTORS

Metals

- ▷ Copper Rod
- ▷ Tinned copper wire
- ▷ DAC: Aluminium Rods

Accessories

- ▷ Ducab Connect Cable Component & accessories

Oil & Gas

- ▷ MV Cables for OGP industries
- ▷ Lead sheathed power control auxiliary cables
- ▷ Instrumentation & pilot cables
- ▷ PetroBICC Cables solutions

Utility & Construction

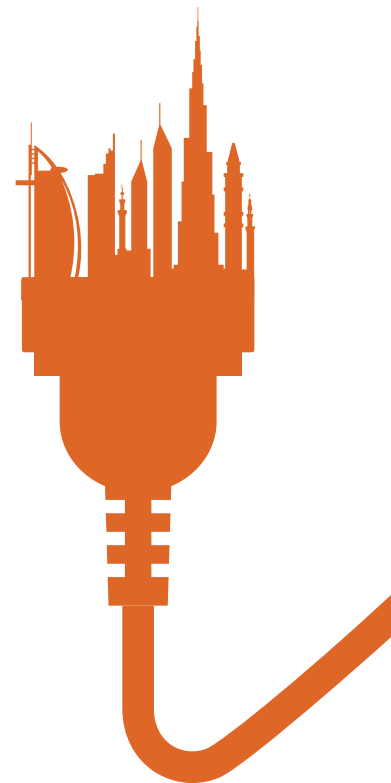
- ▷ Ducab HV
- ▷ Ducab Powerplus MV cables
- ▷ Low Voltage control & auxiliary cables
- ▷ XLPE insulated low voltage cables
- ▷ PVC insulated wiring cable
- ▷ Ducab smokemaster – LSZH Cables
- ▷ DuFlex – Flexible cables
- ▷ DuPan

Special Cables

- ▷ FlamBICC Cables – FR Cables
- ▷ Ducab RuBICC
- ▷ Marine Ship wiring cables (MarineBICC)
- ▷ RV-K Cables
- ▷ THHN/THWN Cables
- ▷ Arctic Cables

Nuclear & Renewable Cables

- ▷ NuBICC
- ▷ Solar



INSTRUMENTATION CABLES

Used to connect electrical instrument circuits & provide communication service in and around process plants.

- Upto 1 kV
- Can provide lead sheathed cables
- Available in armoured construction
- Available with LSZH sheath option
- Pilot cables as per customer design
- Individual and/or overall screening
- Can provide XLPE insulated cables suitable for 90°C
- Field bus cables are also available
- Can provide fire rated cables as per IEC 60331

Characteristics

- ▷ Minimum service temperature **-15°C**
- ▷ Service temperature **70°C**
- ▷ Service temperature **90°C** can be offered
- ▷ Maximum short-circuit temperature **160°C** (max. 5s)



CONSTRUCTION & AUXILIARY CABLE

Used in auxiliary & control circuit applications.

- Upto 1 kV
- Can provide lead sheathed cables
- Available in armoured construction
- Available with LSZH sheath option
- Can provide fire rated cables as per IEC 60331



HIGH VOLTAGE CABLES



Used in HV transmission

- As per IEC 60840
- Manufacturing of XLPE insulated power cables from 60kV – 500kV
- Conductors in either copper or aluminium
- Conductor sizes from 150mm² – 2500mm²
- Cables are currently finished with a combination of either a lead sheath and copper wire screen or a laminated sheath and copper wire screen

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Maximum service temperature **90° C**
- ▷ Meter by meter marking

Ducab - HV

High Voltage Cable Systems



MEDIUM VOLTAGE CABLES



Used in MV transmission/ distribution application

- As per IEC 60502-2
- From 6 kV to 33 kV
- Can provide Single Core / Three Core as required
- Can provide lead sheathed cables
- Can be watertight at conductor, Screen and / or armour level/steel tape
- Can provide steel tape armour for multicore cables
- Available with LSZH/PVC/PE sheath option
- Available with copper wire screen in wires or Interstice conductors as required
- N2XSY/N2XSBY types are available

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Meter by meter marking
- ▷ Maximum service temperature **90° C**
- ▷ Flame non-propagation available



LOW VOLTAGE CABLES

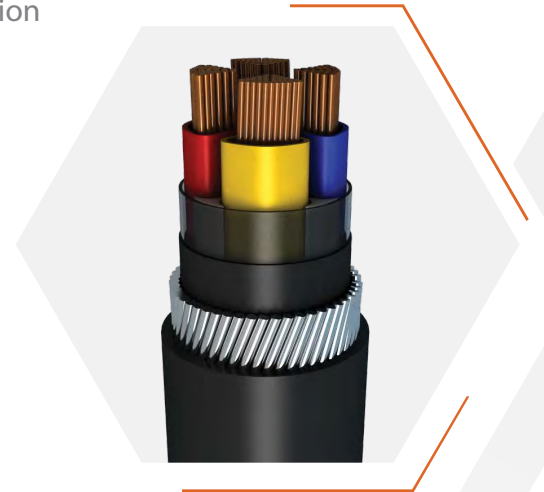


Used in LV distribution application

- As per IEC 60502-1
- From 1 kV to 3.3 kV
- Can provide Single Core / Multicore as required
- Can provide lead sheathed cables
- Can provide steel tape armour for multicore cables
- Available with LSZH/PVC/PE sheath option
- R2V/N2 XY types are available

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Meter by meter marking
- ▷ Flame non-propagation available
- ▷ Maximum service temperature **90° C**



WIRING CABLES

Used in house wiring

- Manufactured in sizes of 1.5 upto 630 sqmm
- Rated 450/750V as per BS
- H07V-R, H07V-K, H07Z - U types are available with PVC
- N2 XSF 0.6/1KV types are available
- H07Z - R, H07Z - K, H07Z - U types are available with XL-LSZH

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ Service temperature **90° C** can be offered for XLLSZH and HR PVC
- ▷ Manufactured to higher temp. **105° C** PVC upon request
- ▷ Service temperature **70° C** for standard PVC
- ▷ Maximum short-circuit temperature **160° C** (max.5s) for PVC & **250° C** for XL-LSZH
- ▷ Flame non-propagation available



FLEXIBLE CABLES

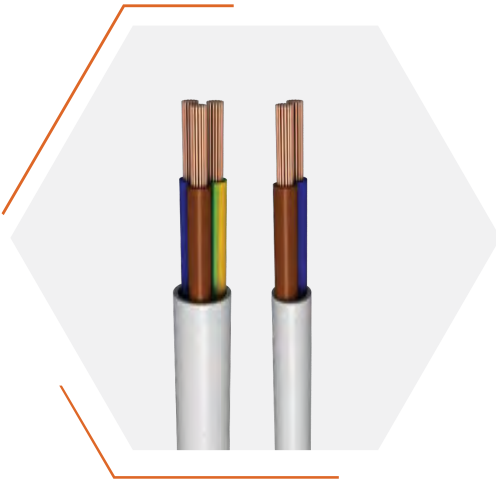
Used in application requiring flexible cable wiring



- H05 VV - F / H05 V2V2-F
- H03 VV - F / H05 V2V2-F

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ Service temperature **90° / 105° C** can be offered
- ▷ Flame non-propagation available
- ▷ Service temperature **70° C** for standard
- ▷ Maximum short-circuit temperature **160° C** (max. 5s)
- ▷ Flexible conductor, class 5



DuFlex
FLEXIBLE CABLES

Dupan PANEL WIRE

Used in panel wiring



- BS 6231, Type CK
- Circular class 5 flexible copper conductor as per BS EN 60228
- Heat Resistant PVC type T13 as per BS EN 50363-3
- 600/1000 V
- BS EN / IEC 60332-1

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ Service temperature shall be **90° C**
- ▷ Flexible conductor



Du **pan**

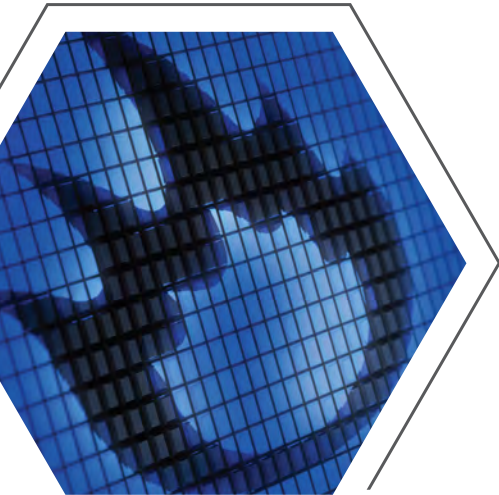
SPECIALIZED PRODUCTS

FlamBICC cables are used in fire resistant cable applications

FlamBICC 1 CABLES



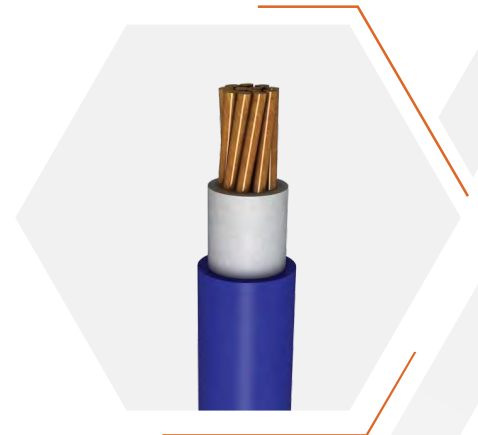
Ducab FlamBICC 



- Certified to BS 6387 for small sizes
- Certified to IEC 60331 for larger sizes
- 600 | 1000V

Characteristics

- ▷ Maximum service temperature **90° C**
- ▷ Low corrosive gases emission (LSZH)
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Flame non-propagation



FlamBICC 2a CABLES



Ducab FlamBICC 



- BS7629 - 1
- Certified to BS 6387
- Class PH 60 of BSEN 50200
- 300 | 500V

Characteristics

- ▷ Maximum service temperature **90° C**
- ▷ Low corrosive gases emission (LSZH)
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Flame non-propagation



FlamBICC 2a ENHANCED CABLES



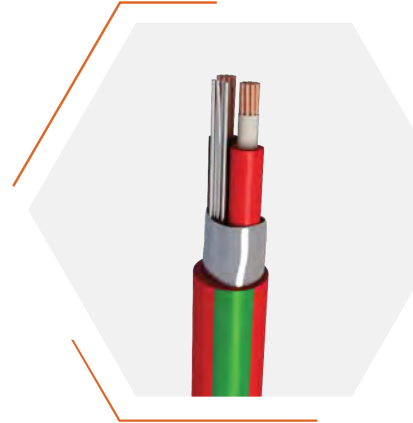
- BS 7629 - 1
- Certified to BS 6387
- Class PH 120 of BS EN 50200, BS 8434 - 2 (120 minutes)
- 300 | 500V



Characteristics

- ▷ Maximum service temperature **90° C**
- ▷ Low corrosive gases emission (LSZH)
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Flame non-propagation

Note: provided with optional green strip



FlamBICC 3 CABLES



Singlecore

- Certified to BS 6387 for small sizes
- Certified to IEC 60331 for larger sizes

Multicore

- BS 6387 CWZ and IEC 60331-21 at 950°C
- 600 | 1000V



Singlecore & Multicore Cables Characteristics:

- ▷ Maximum service temperature **90° C**
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Low corrosive gases emission (LSZH)
- ▷ Flame non-propagation

FlamBICC 4 CABLES



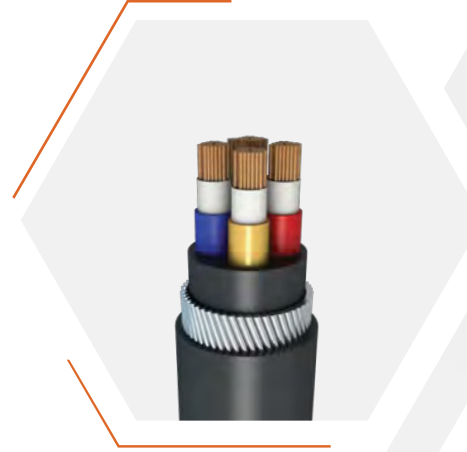
Ducab FlamBICC 



- Power cables meeting BS 7846 F2 & BS 6387 CWZ

Characteristics

- ▷ Maximum service temperature **90° C**
- ▷ Low corrosive gases emission (LSZH)
- ▷ Flame non-propagation
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ 600 | 1000V



FlamBICC 6 CABLES



Ducab FlamBICC 



- Power cables meeting BS 7846 F120, BS 8491 120 minutes and BS 6387 CWZ
- BS 8519 Category 1, 2 & 3 power and control applications

Characteristics

- ▷ Maximum service temperature **90° C**
- ▷ Low corrosive gases emission (LSZH)
- ▷ Flame non-propagation
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ 600 | 1000V

Note: provided with optional orange strip



THHN / THWN CABLES

Used where oil resistance is required

- As per UL standard

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ **90° C** in dry & **75° C** in wet location
- ▷ Maximum short-circuit temperature **160° C** (max. 5s)
- ▷ Oil resistant
- ▷ 600



ARCTIC GRADE FLEXIBLE CABLES

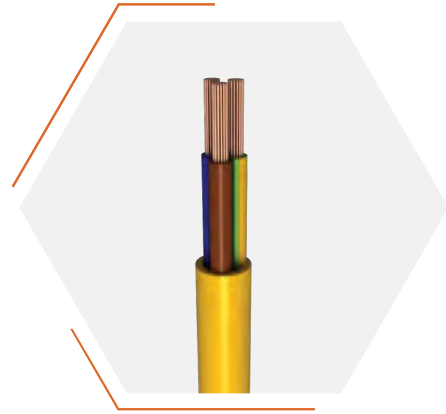
TUFF
DuFlex

Used for very low ambient temperature

- Lowest ambient temperature for operation **-40°C** for ArcticGrade cables

Characteristics

- ▷ Minimum service temperature **-40° C**
- ▷ Flexible conductor, class 5
- ▷ Flame non-propagation
- ▷ Operating temperature **70° C**
- ▷ Maximum short-circuit temperature **160° C** (max. 5s)
- ▷ 300 | 500V



RUBBER FLEXIBLE CABLES

Ducab Ru BICC

Used in different applications requiring flexibility

- Available for different harmonized grades (H07RN-F, H07BN4-F, H05BN4-F, etc.,). Arc welding cables

Characteristics

- ▷ Minimum service temperature **-40° C**
- ▷ Service Temperature **90° C**
- ▷ Flexible conductor, class 5/6
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)



PetroBICC CABLES

Ducab PETRO BICC

Used in oil, gas and petro chemical industries

- Available in LV/MV Power, LV control / auxiliary and instrumentation cables

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ Service Temperature **90° C** for cables with XLPE insulation
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Oil / Hydrocarbon resistant



MarineBICC CABLES



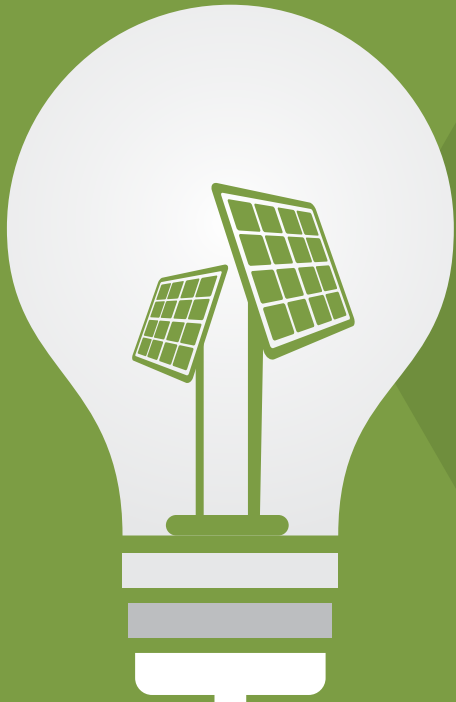
For ship wiring applications

- As per IEC 60092 standard
- Available for power, control, instrumentation & ship board applications
- Available in fire resistant design also

Characteristics

- ▷ Minimum service temperature **-15° C**
- ▷ Maximum short-circuit temperature **250° C** (max. 5s)
- ▷ Service Temperature **90° C**
- ▷ LSZH property
- ▷ 600 | 1000V for LV
- ▷ 150 | 250V for Instrumentationcables





**NUCLEAR & RENEWABLE
CABLES**



NUCLEAR & RENEWABLE CABLES

NuBICC CABLES



Special cables for nuclear power plants

- Tinned copper/ XLPE or EPR / XL-LSZH or Rubber sheath
- 1kV to 15kV
- As per NEMA standard
- Available in 1C or Triplex construction

Characteristics

- ▷ Minimum service temperature **-15°C**
- ▷ Maximum short-circuit temperature **250°C** (max. 5s)
- ▷ Service temperature shall be **90°C**



SOLAR CABLES



For Solar Panel Systems

- Standard : BSEN 50618
- Voltage: 1/1 kV A.C (1.5 kV D.C)
- Size range: 1.5 – 240 mm²
- Ambient temperature: -40°C to 90°C
- Maximum conductor operating temperature: 120°C
- Maximum short circuit temperature: 250°C for 5 s
- Harmonized code: H1Z2Z2-K



APPROVALS

WE ARE APPROVED BY ALL THE MAJOR CONSULTANTS / SPECIFIERS LIKE :

- AECOM
- DAR AL HANDASAH
- WS ATKINS
- PARSONS
- AE7
- WSP PARSONS
- DC PRO ENGINEERING
- CH2M
- WME CONSULTANT
- KHATIB & ALAMI
- KEO INTERNATIONAL
- ADNAN SAFFARINI
- IAN BANHAM & ASSOCIATES
- ARC INTERNATIONAL
- ARCH GROUP
- HYDER CONSULTANTS
- ADNOC GROUP OF COMPANIES
- MOTT MCDONALD
- TECHNIMONT ICB
- TOYO ENGG
- FOSTER
- FOSTER WHEELAR
- BECHTEL LTD., U.K.
- WORLEY PARSONS
- TOTAL
- JACOBS H & G

3rd Party approvals

OUR CABLES ARE TYPE TESTED AND ACCEPTED FOR QUALITY BY THE FOLLOWING 3RD PARTY INSPECTING AGENCIES :

- KEMA
- BV
- ABS
- CPRI
- DNV-GL
- ERDA
- LPCB
- BASEC
- LLOYDS REGISTER
- SGS
- TUV
- UL

Major Global Contractors

WE ARE PREFERRED VENDORS TO ALL THE MAJOR CONTRACTORS CLIENTS LIKE :

- ABB
- CCC
- DAELIM
- DODSAL ENGINEERING
- G.S. ENGINEERING
- GE OIL & GAS
- HYUNDAI
- IRCON
- J RAY MCDERMOTT
- BECHTEL
- PDO
- SIEMENS
- ETA
- SAUDI ARAMCO
- ALSTOM
- EMAL
- TOSHIBA
- MTR
- EWA
- DEWA
- LARSEN & TOUBRO
- LINDE ENGINEERING
- NPCC
- PETROFAC
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- TECHNIMONT
- JGC
- ADNOC
- SICON OIL & GAS
- KOC
- GS ENGINEERING
- ZADCO
- ADMA
- BOUYGUES
- DRAKE & SCULL
- MASDAR
- HLO
- DRMC
- SAIPEM
- TECHNIP
- TECHNICAS
- CHIYODA
- McDEYMOTT
- SKEC
- HDEC
- HEC
- AREVA
- KEPLA
- QATAR PETROLEUM
- SINOPEC
- TECHNIP
- SK E&C
- ICHNP
- ICEPCO
- LARSEN & TOUBRO
- LAING O'ROURKE
- WORLEY
- DOOSAN

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Ducab - HV

DAC
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Ducab Aluminium Company

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