

ALMAS M.E CABLE SPECIALTY CABLE DISTRIBUTOR

WHO WE ARE

Almas Cable has been an established well-known cable distributor with an excellent track record, actively supplying the Iran market for the past 10 years. Almas Cable is reputable in providing cabling solutions for specialized projects in various industries. We never compromise on the quality and the services provided to our customers and we believe in keeping our customers satisfied and providing them with the right cable solutions at a very competitive price.

Our Commitment

Almas Cable is committed to provide high quality products and an outstanding customer service. Our professional team will assist you with all your cabling requirements from the initial design stage up to the delivery of the cables to your site. We strongly believe in providing post sales support to our clients. Our commitment to our customers is to provide service excellence along with a dedicated technical team which will exceed our customers' expectations. We operate with a valuesbased approach which is driven by transparency, integrity and strong customer relations. Our goal is to build a long lasting business relationship with our clients and we believe that our success is measured only by the success of our clients.

Global Reach

With our Global reach and industry knowledge, Almas Cable is in a position to offer innovative solutions based on our clients' special requirements. We will work closely with our clients to provide services ,which can't be provided through local manufacturers. Our clients benefit from the close relation we have with different international affiliates, throughout Europe and North America.

Ongoing Projects

Our project experience enables us to assist clients with cost control, Supply Chain Management and on time delivery of products for ongoing projects. This value-added service helps to meet client's project deadlines by ensuring on-time delivery as per the project schedule.



Fire Performance Cables

Fire Alarm (zero halogen low smoke) cable has been designed and manufactured in the UK to provide superior flame retardant and circuit integrity together with optimized ease of installation characteristics manufactured to BS7629-1 and meeting the standard category of BS 5839-1-2002 Tested and approved by LPCB and BASEC.

Construction & Specification

- Conductors: Solid or Stranded Plain annealed cooper wire
- Insulation: Silicone Rubber
- Electrostatic screen: Aluminum/Polyester laminated tape
- Earth Conductor: Solid or stranded tinned annealed copper
- Sheath: High Performance. Thermoplastic Zero Halogen. Low Smoke (OHLS) compound
- Voltage rating: 300/500V
- Operating temp: -40 C to +90 C
- Min. Bending reduce: 6 x overall diameter of cable

Main Standards Achieved

- Circuit Integrity: BS 5839-1: 2002 Clause 26.2d standard
- BS EN 50200 PH30, PH60 and Annex E
- BS 6387 C, W & Z, IEC 60331-2
- Flame Propagation: IEC 60332-3, BS EN 50265, BS EN 50266

Other types of Fire Performance Cables are available:

- Fire Resistant Coaxial Cable RG59 ideal for CCTV
- Fire Resistant Data Cables according to EN 50173
- Fire Performance (Enhanced), meets the PH Class (120mins)
- Fire Performance for immunity to Electro Magnetic Interference (EMI) ideal for airport terminals
- Fire resistant 600/1000v, SWA armored Power Cable according to BS 7846 & BS 7346-6:2005
- Modular wiring system for lighting and circuits in tunnels environments





MINERAL INSULATED COPPER CABLES

- Solutions to all wiring systems which demands the highest standards for safety and survival in fire conditions or high temperature situations
- Mineral Insulated cable to BS EN60702-1:2001
- Enhanced fire resistant BS EN8434-2:2003 and BS 5839-1:2002 clause 26.2 BS 50200:2000 clause PH120

Two Grades of Cables are available:

- Light Duty 500 Volt (2 Cores to 7 Cores, Size 1.0 to 2.5mm²)
- Heavy Duty 750 Volt (1 Cores to 19 Cores, Size 1.5 to 240mm²)

Accessories:

Gland shrouds. Conductor insulating Sleeving, Insulated glands, copper fixing strip, Brass locknuts, Zinc plated steel lock washers, Surge Voltage Diverters, Complete Straight through joint kit and special tools.

Advantages:

Fire Resistant, High operation temperatures (Up to 1083°C), Waterproof Mechanical Strengths, Earth Continuity, Small overall diameter, Non-Ageing, Inherent Flameproof barrier.

Application:

- Chemical Plants, Gas & Oil Production, Refineries, Filling Stations
- Airports, Hotels, Cinemas, Historic buildings
- Rail & Road tunnels, Railway Stations
- Boilers, Foundries, Iron & Steel industries, Nuclear Power Stations







ELECTRIC Heat Tracing

Electric trace heating also known as electric heat tracing and electric surface heating, is a system used to maintain or raise the temperature of surfaces, pipes and vessels.

The Most Common Trace heating applications in industry include:

- Freeze Protection of pipes, instruments and vessels
- Process temperature maintenance of pipes and vessels
- Long distance pipeline heating
- Anti-Condensation And many more.

The most common trace heating applications in construction include:

- Freeze Protection of pipes and vessels
- Temperature maintenance of hot water systems
- Snow and ice prevention of roads, ramps, walkways
- Gutter and roof heating
- Under floor heating
 - And many more.

Our series of heating tapes includes a complete range of self-regulating and constant wattage products for all Applications with heating cables for use as floor heating and freeze protection to high-end industrial grade cable temperatures up to 240°C.





Marine and Shipboard Cables

In the international Shipboard cable industry, Almas Cable can now provide customers with a high quality solution for most applications at very competitive prices. The basic range covers standard power, instrumentation and communication cables for commercial ships. In terms of onboard safety, our cables quality is superior and we have a wide range of halogen free cables which are essential in this industry. On Naval vessels and also special vessels as dredgers, requirements are more stringent than on ships such as ferries, cruise ships and yachts.

Technical Data

- 250 V instrumentation Cables, 0.6/1 KV Control & LV Cables and MV Cables up to 12kv
- Annealed Stranded Copper Class 2 or Flexible Tinned Copper conductor Class 5
- Low Smoke & Halogen Free (OHLS)
- XLPE Insulation
- Tinned Copper Wire Braid Armoured
- SHF1 inner and outer Sheath

Advantages

- Light Weight
- Easy To Install
- Cost Saving
- Low cost

Our Range Of Cables Include:

- Flame Retardant Cables: TI, TXOI, TFOI and TIOI
- Fire Resistant Cables: BI, BXOI, BFOI, and BIOI
- Instrumentation Cables: All types with Individual (I), Collective Screen (C) and drain wire are available
- Special Light Weight Cable with Screen: TI (C) 600/1000V
- Data Communication Cables: Cat5e, Cat6 and Cat7, Profibus, RG and Fiber Optic Cables



Offshore Cables

Our comprehensive range of products is fully compliant with established international specifications. All cables offer excellent performance in the harsh environments like offshore, under-water and downhole. We offer a complete line of halogen free, flame retardant and fire resistant cables. Our downhole products provide excellent resistance to oils, abrasion, moisture and salt water.

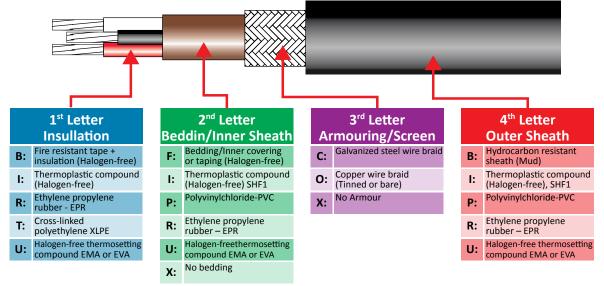
Technical Data for offshore cables:

Tinned Copper Conductor, Low Smoke halogen free, Oil, UV and MUD Resistant, EPR Insulation, SHF2 Sheath, 250 V Instrumentation Cables with individual and overall screen, 0.6/1 KV Control and Power cables, Up to 24 KV MV Power Cables.

Our Range Of Offshore Cables Include:

- NEK 606/IEC 60092: BFOU/RFOU based on Tinned Copper Wire Braid Armoured
- British Standard/UKOOA: RFCU/BFCU based on Galvanized Steel Wire Braid Armoured
- Data Communication Cables: Cat5e, Cat6 and Cat7, Profibus cables, RG and Fiber Optic Cables

Code designation for offshore cables:



Additional Abbreviation for Instrumentation Cables:

(c): Collective screen
(i): Individual pair or triple screen

Subsea Cables:

Our range of subsea cables includes submarine fiber optic cables, submarine power cables and submarine composite cables with required accessories. Different cables types and designs are used in submarine environments depending on installation depths and conditions.

Land Rigs Cables (Type P) Applications

Type P Cable is primarily designed for power, control, signal and instrumentation applications for offshore, land rigs, marine vessels and oil and gas drilling rigs. Type P cables have excellent resistance to oil, abrasion, moisture, sunlight and ester-based mud (Type P-MR). They are suitable for use in class I, Division I and Zone I applications (armored & sheathed) and meet the crush and impact resistance requirements (C&IR) of UL 2225. The standard insulation has a continuous operating temperature of 125° C allowing for higher ampacity levels. Larger diameter cables carry a new flexible design.

They satisfy Transport Canada's cold bend at -40°C and cold impact at -35°C (CSA C 22.2 NO.0.3). This product is readily available in an unarmored version.

RANGE OF CABLES

- 1. High Voltage Power Cable 5.8, 15KV
- 2. Power (Distribution) Cable 0.6/1, 2KV
- 3. Control Cable 0.6/1 KV
- 4. Signal Cable 0.6/1 KV
- 5. VFD Cable 2KV

APPLICABLE STANDARDS

- Design Guide
- Insulation Material
- Sheath Material
- Flame Retardant
- Fire resistant

IEEE 1580(2001) IEEE 1580, Type P UL 1309.X110 IEEE 1580, Type N IEEE 1202 & IEC 60332-3 Category A IEEE 60331-21

CABLES SIZING

According to AWG sizing 18, 16, 14,12,10,8,6,5,4,3,2,1,1/0,2/0,3/0,4/0 AWG 262, 313, 373, 444, 535, 646, 777, 1111 MCM

MAXIMUM CONDUCTOR TEMPERATURE

Insulation Type	Max Conductor Temperature (°C)
P (XLPO)	125
E (EPR)	90

MINIMUM BENDING RADIUS

Cable Type	Radius Minimum Bending
Armored Cable	8 D
Un-Armored Cable	6 D

Multi Pair and Multicore Instrumentation Cables PVC and PE Insulated to PAS 5308 part 1&2, Foundation Fieldbus Cables, Extension and Compensation Thermocouple cables

This specification covers multi pair cables used in the provision of voice and services and the interconnection of electrical equipment and instruments, particularly in and round process plants, where transducer generated signals are transmitted through marshalled circuits to panels, controllers and associated devices. Cables to Part 1 are widely used throughout the petroleum industry, while Part 2 are more common to the chemical and petrochemical industries.

Type 1 Unarmored cables are generally for indoor applications.

Type 2 Armoured cables are suitable for for direct burial underground applications.

Type 3 Lead sheathed cables are recommended for burial underground where there is a high concentration of hydrocarbons in the soil.

Thermocouple Cables: : We supply thermocouple extension and compensating leads with a wide range of conductors.

These are manufactured using either PE or high temperature PVC. The thermocouple cables produced are types K, J, T, E extension cables and types KCB and RCA/SCA compensating cables.

Fieldbus Cables: The construction of Fieldbus Cables is based on Part 1 but have an optimized insulation to ensure compliance to the following Fieldbus TYPE A specification IEC 61158-2 key parameters:

Characteristics Impedance Maximum Attenuation Maximum Propagation Delay Change 100 Ohms ±20%@31.25KHz 3dB/km@39KHz 17μs/Km (7.9-39 KHz)

LEAD FREE HYDROCARBON RESISTANT CABLES

Under certain conditions in which cables are exposed to oils, solvents, gases or other chemicals, designers and installers of critical cabling systems have historically relied upon using conventional lead-sheathed cable, which is often unsatisfactory due to its weight, large bending radius and cost. This new cabling system provides excellent resistance to hydrocarbons, its performance being similar to lead alloy, but with significant advantages.

Advantages: Cable weight is reduced by up to 70%, Overall diameter is reduced by up to 20%, Bending radius is reduced by up to 25%, Termination time is reduced by up to 50%, Less hazardous to health.



Rubber Flexible Cables

We stock, distribute and supply flexible rubber insulated cables as well as special flexible cables for power and medium voltage applications.

Users appreciate the advantages of our cable range, their high quality and reliability. The tested quality assurance system conforms to DIN ISO 9001. Flexible cables are produced to conform to DIN VDE rules, the CENELEC harmonization documents and European standards, to international IEC recommendations and numerous national specifications.

Port CABLES

Flexible MV-REELING CABLES

For the connection of large mobile equipment such as excavators and spreaders.

Loading bridges, gantry cranes, construction machines, etc. Under very high mechanical loads, in dry or damp environment, also in hazardous areas.

Flexible LV-REELING CABLES

Low voltage and data reeling cables for the connection of hoisting and hauling systems and similar equipment using positive cable guidance, under high mechanical loads in dry and damp areas, outdoors and in areas with a high risk of explosion.

Flexible FESTOON CABLES

Low voltage and data reeling cables for the connection of hoisting and hauling systems and similar equipment using positive cable guidance, under high mechanical loads in dry and damp areas, outdoors and in areas with a high risk of explosion.

Flexible SPREADER-CABLES

CRANE SPREADER REELING CABLE is specifically designed and manufactured to withstand abusive environments, high hoist and trolley speeds and extreme mechanical stresses.

Other Industrial Rubber Cables

- Heavy duty Rubber-insulated Flexible Cable
- Face Lighting Cable
- Coal cutter cable
- High-voltage Trailing Cable with Monitoring Shied
- Rubber Sheathed FO Cable for Optical Data Transmission
- Trailing cables
- Welding Cables

Other Products

- Photovoltaic Cables (Solar Cable)
- Data Communication Cables
- Heat resistant wire and Cables
- Down Well Pump Cables
- OHLS Industrial Power Cables
- MV, HV and EHV Cables
- Fiber Optic, OPGW & ADSS Cables
- Elevator Cables
- Cathodic Protection Cables
- Steel Wire Ropes and Accessories





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