

····· HIGH VALUE CABLES ·····





OUR MARKETS

Our cables are installed in the following countries:

Afghanistan, Algeria, Austria, Bahrein, Bangladesh, Belgium, Brunei, Bulgaria, Chile, China, Congo, Cuba, Cyprus, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Holland, Hong Kong, Hungary, India, Indonesia, Iran, Iraq, Ireland, Italy, Japan, Jordan, Kazakistan, Kuwait, Lebanon, Luxembourg, Malaysia, Maldive, Malta, Mauritius, Morocco, Mozambique, Nigeria, Norway, Oman, Pakistan, Philippines, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Singapore, South Africa, Spain, Sudan, Sweden, Syria, Taiwan, Turkey, United Arab Emirates, United Kingdom, Usa, Venezuela, Vietnam, Yemen.

| MANY DESTINATIONS, BUT ONLY ONE ORIGIN: ITALY

TOTAL QUALITY

Quality means different things to different people.

Quality is not only our approved Quality System according to **ISO 9001** by **CSQ** – Italy, **BASEC** – UK and **LPCB** - UK.

Quality is not only our fully equipped test laboratory to certify the required characteristics of cables.

For CAVICEL Quality simply means to satisfy customers not only by supplying them the required products, but

by working together in a professional way to create a long lasting successfully relationship.

Our growth and success stem from the quality of our promise and the certainty of delivering on promise.

Quality also means respect for the environment and this is why CAVICEL is certified according to **ISO 14001** by **CSQ** - Italy.

OUR VALUE

CAVICEL is a cable manufacturer, but we do not only supply cables. We grant the satisfaction of the right solution in cable application. This means to have fully evaluated all customers' requirements, not only in terms of cable performance, but in terms of service, knowledge, reliability in order to assure the best value for our customer. We try to understand our partner's situation and criticality. Then we just create a cable that let's your value flow free.

THIS IS CAVICEL:

Conducting Value.



CAVICEL is an innovator in the design and manufacturing of copper and fibre optic special cables for various applications.

CAVICEL has been producing special cables for over 60 years, with always the same goal: quality and reliability.

With its skilled staff and its solid know-how

CAVICEL proposes itself as an useful partner for every problem concerning the transmission of any optical or electrical signal.

Our Mission is to supply cable market with special products that are recognized for **Quality, Performances** and **Innovation**.

OUR PRODUCTION

FIRE©EL

Fire resistant cables

INC&CEL

Instrumentation, thermocouple, control and power cables



Fibre optic cables

SPECIAL CABLES

designed and manufactured with different characteristics meeting the specific needs in the most appropriate way.

OUR KNOW-HOW

We have had a wide experience in designing and manufacturing cables for over 60 years, and we have always worked closed to our customers to understand the real needs.

We have developed different production technologies and we are able to offer the most suitable construction for each application.

Our cables, installed in more than 60 countries, say that we have the right knowledge and experience in approaching the market







FIRE RESISTANT CABLES

Firecel SR cables are fire resistant cables designed to continuously operate under fire conditions. During the burning stage, the combustion gases have very low opacity, low toxicity and are halogen free, for the safeguard of the human life and for protection of installations.

FIRECEL SR 114H - SR 114E

These cables are installed for over 30 years in more than 50 countries for

These cables comply with the following

FIRECEL SR 114H: "standard" fire re-

FIRECEL SR 114E: "enhanced" fire recables must be used.

FIRE TEST LABORATORY

Resistance to fire alone

Resistance to fire with water spray

Resistance to fire with mechanical **shocks** (BS 6387 cat. Z, BS EN 50200) Resistance to fire with mechanical shocks and water spray

Smoke Density (BS EN 61034-2)

Acid gas Emission

Fire and flame propagation

(BS EN 60332-1, BS EN 60332-3-24)



FIRECEL SR: a wide range of fire resistant cables

CONSTRUCTION:

Conductor: Bare or tinned copper,

solid or stranded

Insulation: Silicone rubber or Mica-silicone or Mica-XLPE Cabling: concentric or twisted pairs

Screen: aluminium/polyester tape

Jacket: LSZH

Armour: GSWB (galvanized steel wire Insulation grade: 300/500V, 450/750 V,

600/1000 V.

APPLICATIONS

Theatres and cinemas

Shopping centers

Offices

Undergrounds and tunnels

Railway stations

High-rise buildings

Public address systems Traffic control systems

Fire fighting systems

Department of Social Services -

Abu Dhabi

Civil Defence Directorate - Abu Dhabi

ADWEA - Abu Dhabi

Civil Defence Directorate - Dubai

Civil Defence - Bahrain

Civil Defence Department - Qatar Fire Service Directorate - Kuwait

Royal Oman Police - Sultanate of Oman

Ministry of Public Works - UAE Fire Service Dept. (Fire Protection

Bureau) - Hong Kong

APPROVALS



INC47CEL INSTRUMENTATION, THERMOCOUPLE, CONTROL AND POWER CABLES

Instrumentation, control and power cables are suitable for use in Oil & Gas installations, chemical and petrochemical plants, iron and steel industries, Off-Shore...

Cavicel can offer a wide range of cables, designed, manufactured and tested according to international standards or to meet specific requirements.

CONSTRUCTION

Conductor: Bare or tinned copper, solid

or stranded

Special alloy for thermocouple cables

Insulation: PVC XLPE

Cabling: concentric or twisted pairs

or triples

Screen: individual or collective aluminium/polyester tape

or copper tape or braid

Jacket: LSZH, PVC

Armour: SWA, GSTA, GSWB, GSFA Insulation grade: 300/500V, 600/1000 V.

APPLICATIONS

Refineries & Gas Plants

Chemical and pharmaceutical plants

Offshore platforms Power station



APPROVALS

ADNOC - GASCO - ADCO - UAE **ENI-AGIP** - Italy

HELLENIC PETROLEUM - Greece

KNPC - Kuwait **MOBIL OIL** NAOC - Nigeria PDO - Oman **PETROBEL** - Egypt

QATAR PETROLEUM - Qatar

SHELL - Nederlands TOTAL - France-Indonesia **SONATRACH** - Algeria

SPECIAL DESIGN

Cables can be supplied with:

- Moisture and corrosion barrier
- Lead sheath

- Hi Pack: protection against corrosion and humidity as alternative to lead sheath

Incocel can be designed and manufactured to assure fire resistance (BS 6387, EN 50200, IEC 60331)

SCREENS

IS Individual Aluminium/Polvester Screen



Aluminium/Polvester Screen

Copper Wire Braid **CWB** Tinned Copper Wire Braid



ARMOURS

SWA Steel Wire Armour



GSWB Steel Wire Braid











PTICEL FIBRE OPTIC CABLES

For more than 25 years, Cavicel has been internationally recognized for the quality of OPTICEL fiber optic cables. Our experience now permits us to offer fibre solutions to a wide range of applications, such as telecommunication, broadcasting and video communication, military and defence, railway applications, industrial harsh environment and various specialty market.

CONSTRUCTION

Types of Fibres: SM 9/125 OS1/OS2

NZDSF

MM 50/125 OM2/OM3/OM4

MM 62.5/125 OM1 MM 200/230

Special fibres available on request.

Fibre coating: Tight

Semi-tight

Single-fibre loose tube

Micro-bundle

Armouring and protection:

Aramid yarns

Corrugated steel tag

Galvanized steel wires

Steel wire braid

Jacket: LSZH, PVC, PE/ HDPE

APPLICATIONS

Telecommunication

Data Transmission

Video Application

Local Area Network

Surveillance and Safety Systems

Railway Application

Process Control



SPECIAL DESIGN

Fibre optic cables can be designed and manufactured with materials and structures that allow high performances, such as:

- Resistance to continuous bending (for mobile applications)
- Resistance to high temperature
- Resistance in harsh environment (Mud resistant jacket)
- Fire resistance, assuring performances even during a fire (standard IEC 60331-25)

PROTECTIONS

A1 Galvanized Steel Wire Braid



A5 Glass Yarns



A2 Aramid Yarns



A7 Galvanized Steel Wire Armour



A3 Corrugated Steel Tape



A8 Copolymer Coated Aluminium Tape



A4 Special Rodent Resistant Extruded Polyamide Jacket



A9 Hi Pack - Special Multilayer Protection (Aluminium/HDPE/PA)





SPECIAL CABLES

The continuous technological evolution led to an increase of the demand of customized products fulfilling specific requests.

This is why Cavicel keeps on developing thousands of new cables, year after year.

In case you are looking for a cable that is not available on the market, or if your project needs a high performance cable or you are looking for a customized preliminary study and custom cable manufacturing, Cavicel Technical Office can offer you the right resources and the proper know-how necessary for satisfying your new demand.

Clients that rely on CAVICEL know that they can count on a company that deeply knows cable problems and works hard, day by day, to understand customer's need. A Company that proposes new solutions, more sophisticated or endowed with the best Quality for the right price. That's the reason why CAVICEL has a global answer for every country, every standard, every need.



MATERIALS

In order to offer the best solution to every enquiry, CAVICEL can process following materials:

PVC

Polyethylene

HDPE

XLPE

Nylon

Polyurethane

TPE LSZH Silicone rubber

Fluoropolymer FEP

Fluoropolymer PFA

Fluoropolymer PTFE

Fluoropolymer MFA Fluoropolymer ETFE

Fluoropolymer ECTFE

Hytrel®

Peek®

Kapton®

APPLICATIONS

Power station

Public transport

Engineering

Industrial plant

Oil & Gas

Off-Shore

Plant monitoring and supervision systems

Naval application

Safety and Defense

Fire-fighting systems

Railways

Underground





















Conducting Value

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ISO 9001:2015 Certificate No. CS1-249



Assessed to ISO 9001:2015 Cert/LPCB ref. 217



ISO 9001:2015 n. 9125.CAVL



n. 9191.CVCL



CORPORATE VIDEO

