

HARNESS THE POWER OF THE SUN

Advanced Cable Solutions
for the Solar PV Industry



WHAT LINKS SUSTAINABLE IDEAS TO REAL-WORLD RESULTS?

We offer cable solutions to enable the production and supply of renewable energy.

To meet an ever-growing need for power, the world is increasingly turning to renewable and sustainably sourced solar energy. In response to this demand, Oman Cables are helping businesses in the renewable industry around the globe convert these new opportunities into reality.

Our technologies - which cover cables used in photovoltaic plants - are at work across the renewables sector, supporting the operations of contractors and developers, grid operators, system integrators and panel makers.

Always aware of our responsibility to the planet, we're constantly driving innovation in our industry, aiming to help renewable industry partners deliver projects with benefits for the future of both our world and their businesses.

Oman Cables range of solar and photovoltaic products are helping businesses around the world convert opportunities stemming from renewable energy sources into reality and answer the world's growing demand for renewable energy. We have supplied components to worldwide developers, grid operators, PV panel makers, PV power generation system integrators and even entire solar parks worldwide.

TABLE OF CONTENT ●

	04		
Introduction	06	Low voltage cables – DC Application	
PRYSOLAR and PV Cables with Special Performance	12	Armoured LV cables 3kV	26
		AIRBAG™ 3kV Cables	28
Low voltage cables -AC Application		Medium voltage cables	
Building wires	20	Armoured MV cables	30
Armoured LV cables 1 kV	22	AIRBAG™	32
AIRBAG™ LV cables 1kV	24	Special Cables: Fiber optic and Data	34
		Accessories	36
		PRYCAM	38

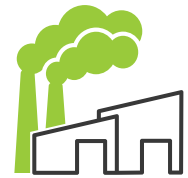


01

BRIEF INTRODUCTION



Oman Cables Industry (SAOG) develops, manufactures, and markets a totally integrated variety of electrical products, which include medium voltage power cables, low voltage power & control cables, instrumentation cables, pilot cables, overhead power transmission line conductors and building wires.



40+
Years of
Experience



800+
Employees



40+
Countries with
Industrial Footprint

HISTORY ●

OCI was established in 1984 by the former Chairman, Mr. Mustafa Mukhtar Al Lawati and Current Director Mr. Hussain Salman Al Lawati. Oman Cables Industry is a well-known and popular cable manufacturer in Oman with offices in UAE, Qatar, KSA, Asia and Europe. With a network of Agents, Distributors, and personal Sales effort, OCI is well established in Kuwait, Jordan, North African countries, Sub-Sahara Africa and continue to develop new markets.

The manufacturing facilities are situated in Muscat, the capital of the Sultanate of Oman, in the Rusayl Industrial Estate, which is the largest industrial complex in the country. OCI's office buildings and factory presently occupy an expansive area of around 135000 square meters with future expansions planned.

OCI therefore has a capacity of more than 120,000mt a year with its copper and aluminum production combined.

OCI has state state-of -the-art equipment that is amongst the most sophisticated in the cable industry. It has the most modern machinery for various cable manufacturing processes, such as wire drawing, bunching, stranding, extrusion, spooling and rewinding. Among the unique manufacturing facilities at OCI are MV cable manufacturing CCV (Catenary Continuous Vulcanizing) lines supplied by M/s. Maillefer Extrusion OY, Finland, a world leader in CCV technology. It can produce cable from 25 mm² to 1000 mm² of both copper and aluminum with voltage grade up to 33kV. A new state of the art Concentric Stranding machine was installed and commissioned on 17 January 2009. OCI has set up a new Plant for manufacturing of Aluminum Rods and Conductors.



AT OMAN CABLES INDUSTRY SAOG, VALUES ARE THE CORE FOCUS IN DEFINING OUR COMPANY'S DNA. WE ARE COMBINING A CULTURE OF SHARED VALUES IN DIRECTION TOWARDS DEVELOPING PEOPLE & BUSINESS TO SET AN INDUSTRY BENCHMARK.



OUR FACILITIES IN/OUTSIDE OMAN ●

1. PLANT 1

Product range:

LV cables, MV cables, OH Conductors, Drylam, Airbag, Airbag Superdry

2. PLANT 2

Product range:

LV cables, Control cables, Building Wires, Drylam, Airbag, Airbag Superdry, PV cables, OCIFLAM X and Instrumentation cables.

3. PVC COMPOUNDING PLANT

Production of different PVC Compunds and Poly Propylene, fillers

4. OAPIL - SOHAR (OMAN)

OAPIL Aluminum Rod-Conductors

5. ACPL - CHIPLUN (INDIA)

Product range:

FR cables, Instrumentation cables, Thermocouple cables, Control cables and Special application cables

74,257m²

COVERED AREA

277,123m²

TOTAL AREA

OMAN CABLES SOLAR PV CABLES WORLD TOUR ●

Did you know that already today there is **1500000000 METERS** of PV cables installed in the world!

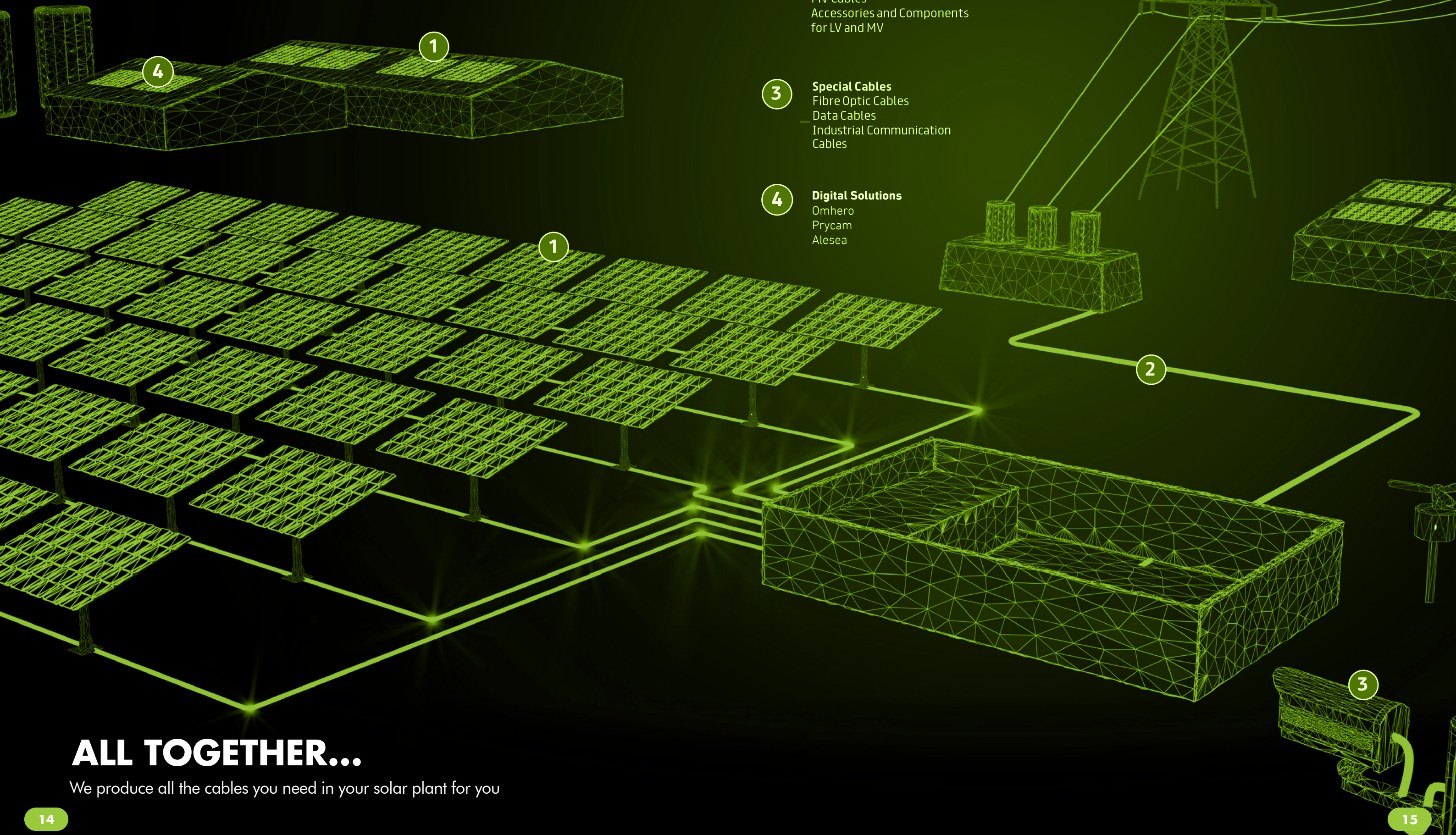
If you laid it all in one line, the cables would reach **ABOUT+50 TIMES AROUND EARTH.**

Here are some examples where our PV cables were installed during the last two years:

Oman	_____	100 MW
UAE	_____	500 MW
KSA	_____	4000 MW
Qatar	_____	900 MW
Italy	_____	200 MW



PRODUCT FAMILIES AT A GLANCE



PRYSMIAN PRYSOLAR BORN TO FACE THE UNPREDICTABLE

Cable Solutions for the Solar PV Industry

PRYSMIAN PRYSOLAR I H1Z2Z2-K 1,5/1,5 (1,8) KV DC



- EXTREME CLIMATE STRENGTH**
Long term immersion in water is a major cause of cable failures. Therefore, we have designed a first-in-the-industry test protocol that certifies long term resistance in water for DC cables.
- RELIABLE RETURN ON INVESTMENT AND 30+ YEARS LIFETIME**
A cable with long term water resistance guarantees reliability even in the most unpredictable events. Prysmian PRYSOLAR ensures 30+ years lifetime.
- SUSTAINABLE SUPPLY CHAIN**
With the introduction of Prysmian PRYSOLAR, now Prysmian Group has the most comprehensive production and capability footprint suitable to serve every customer in every continent
- INCREASED OPERATION EFFICIENCY OF ASSETS**
The better a cable withstands operation-critical conditions, the least likely it is to fail. Prysmian PRYSOLAR reliability translates into higher asset efficiency, reduced OPEX and lower Levelized Cost of Energy.

TESTED TO OUTPERFORM STANDARD DC CABLES

The Prysmian Group WET-I 1500 testing protocol is the first in the industry to certify long term resistance in water for DC cables.



AD8		WET-I 1500
IEC 62930/EN 50618	• Manufacturer self-declaration	• Prysmian Group proprietary test for long term resistance in water up to 1500 V DC
	• No reference standards	• Simulation of real conditions that a cable installed in a PV plant can withstand
	• Ensures that the cable can operate permanently when immersed in water	• Test parameters: 1800 V DC Water @70 °C 1500 cycles
• Long term insulation resistance DC	• Designed for AC up to 450/750 V	
• AD7 (partial or total intermittent immersion)		

Prysmian PRYSOLAR I Born to face the unpredictable

SPECIAL PERFORMANCE PV CABLES ●

RODENT AND TERMITE REPELLENT

Solar cables with special treatment to repel rodent and termite attacks, suitable for installations out in the open without any additional protective conduits.



UV resistant
UV resistant per IEC 62930 Annex E and EN 0618 Annex E



Operation temperature
-40°C to +90°C



Flexible
Flexible tinned copper conductor Class 5 per IEC 60228



Fire behavior
Flame retardant per EN IEC 60332-1-2



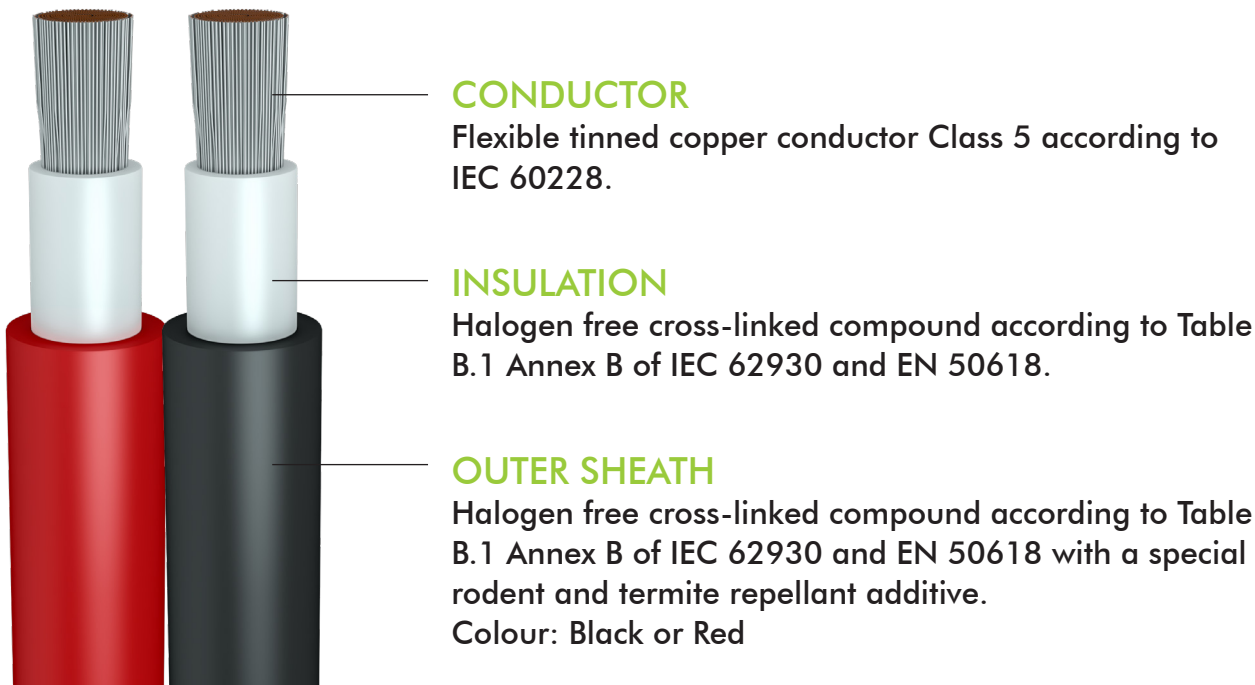
LSZH
Low smoke emission per EN IEC 61034-2 Halogen free per IEC 62821-1 and EN 50525-1 Annex B



Acid and Alkaline resistant
IEC 62930 Annex B, EN 50618 Annex B"



Rodent and Termite retardant



ARMoured CABLES

Solar cables with Aluminium wire armour to provide suitable mechanical protection, suitable for direct burial applications.



UV resistant
UV resistant per IEC 62930 Annex E and EN 0618 Annex E



Operation temperature
-40°C to +90°C



Flexible
Flexible tinned copper conductor Class 5 per IEC 60228



Fire behavior
Flame retardant per EN IEC 60332-1-2



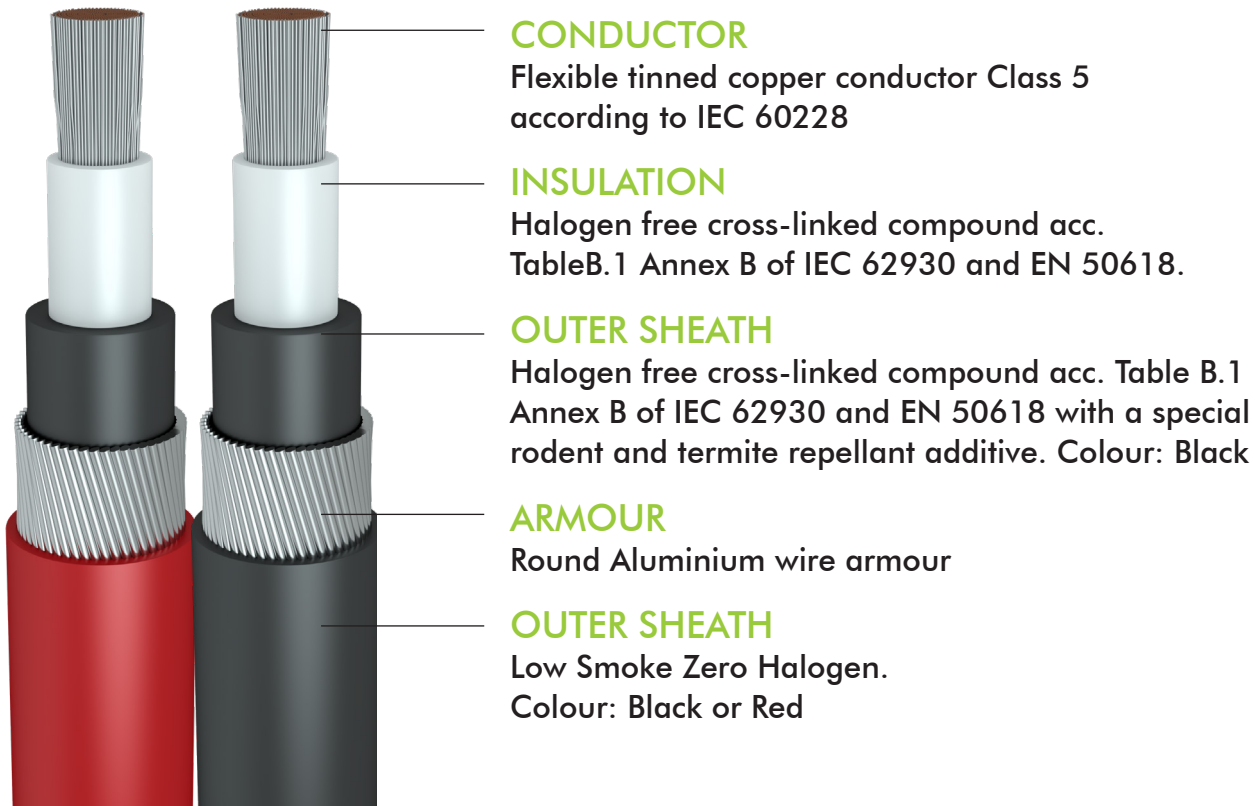
LSZH
Low smoke emission per EN IEC 61034-2 Halogen free per IEC 62821-1 and EN 50525-1 Annex B



Acid and Alkaline resistant
IEC 62930 Annex B, EN 50618 Annex B"



Mechanical impact medium



LOW VOLTAGE CABLES

AC APPLICATION

BUILDING WIRES ●

DESCRIPTION AND STANDARD

CU/PVC 300/500 V BS EN 50525-2-31
 CU/PVC 450/700 V BS EN 50525-2-31*

APPLICATIONS

Used in control panels and electrical equipment,
 on and under plaster as laid in conduit.

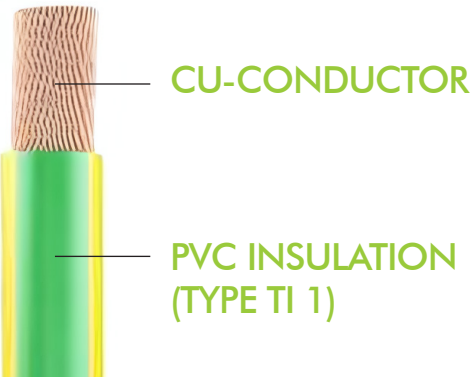
CONSTRUCTION

Copper conductor with PVC insulation (Type TI 1).

TECHNICAL DATA

These cables are produced according to above
 standards as single core.

- Permissible operating temperature: 70 °C
- Permissible short-circuit temperature: 160 °C



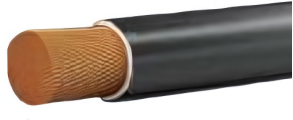
CONDUCTOR CLASS



CLASS 1
 Solid Rigid Conductor
 Single Wire



CLASS 2
 Stranded Conductor
 Stranded Multi Wire



CLASS 3
 Flexible Conductor
 Stranded Thin Multi Wire

*When this cable is used in fixed installations with mechanically protected
 switchgear and control panels, the rated voltage is 600/1000 V.



DESCRIPTION AND STANDARD

CU/LSZH 300/500 V BS EN 50525-3-41
 CU/LSZH 750/450 V BS EN 50525-3-41*

APPLICATIONS

Used in control panels and electrical equipment,
 on and under plaster as laid in conduit.

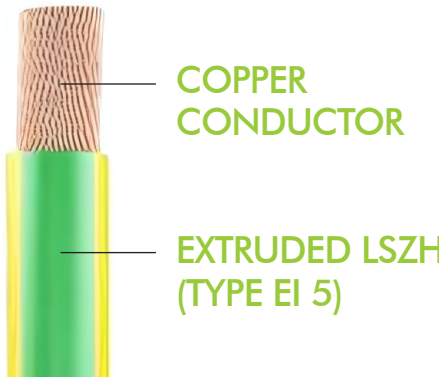
CONSTRUCTION

Copper conductor with LSZH insulation (Type EI 5).

TECHNICAL DATA

These cables are produced according to above
 standards as single core.

- Permissible operating temperature: 90 °C
- Permissible short-circuit temperature: 250 °C



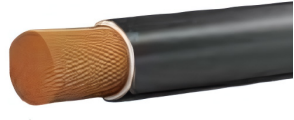
CONDUCTOR CLASS



CLASS 1
 Solid Rigid Conductor
 Single Wire



CLASS 2
 Stranded Conductor
 Stranded Multi Wire



CLASS 5
 Flexible Conductor
 Stranded Thin Multi Wire

*When this cable is used in fixed installations with mechanically protected
 switchgear and control panels, the rated voltage is 600/1000 V.

LOW VOLTAGE CABLES

AC APPLICATION

ARMOURED LV CABLES 1 KV ●

APPLICATIONS

These cables are resistant against outer mechanical reactions with their armour of galvanized steel or aluminium wires. They're suitable for heavy operating conditions, laying and installation. They're used in underground and under normal and salty water if specially produced.

DESCRIPTION AND STANDARD

AL/PVC/AWA or SWA/PVC 0,6/1 kV IEC 60502-1
CU/PVC/AWA or SWA/PVC 0,6/1 kV IEC 60502-1

CONSTRUCTION

Single or multi core energy cables with solid, stranded aluminium/copper conductor, PVC insulation with armour of galvanized round steel wires (Aluminium wires for single core cables), and PVC outer sheath.

TECHNICAL DATA

- Colour of outer sheath: Black (Other colours are available on request).
- Permissible operating temperature: 70 °C
- Permissible short-circuit temperature: 160 °C
(For short circuit duration up to 5 sec.)

DESCRIPTION AND STANDARD

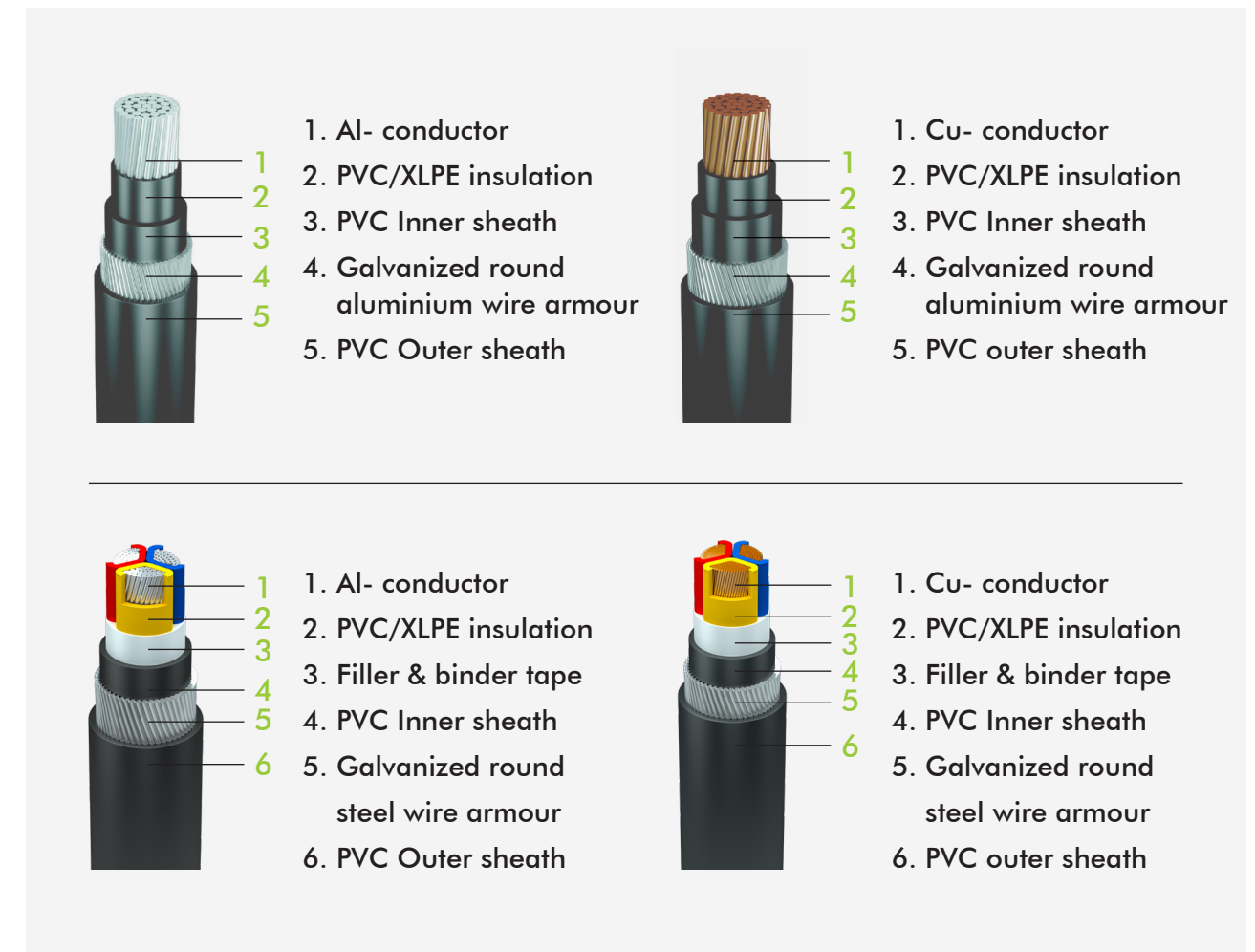
AL/XLPE/AWA or SWA/PVC 0,6/1 kV IEC 60502-1
CU/XLPE/AWA or SWA/PVC 0,6/1 kV IEC 60502-1

CONSTRUCTION

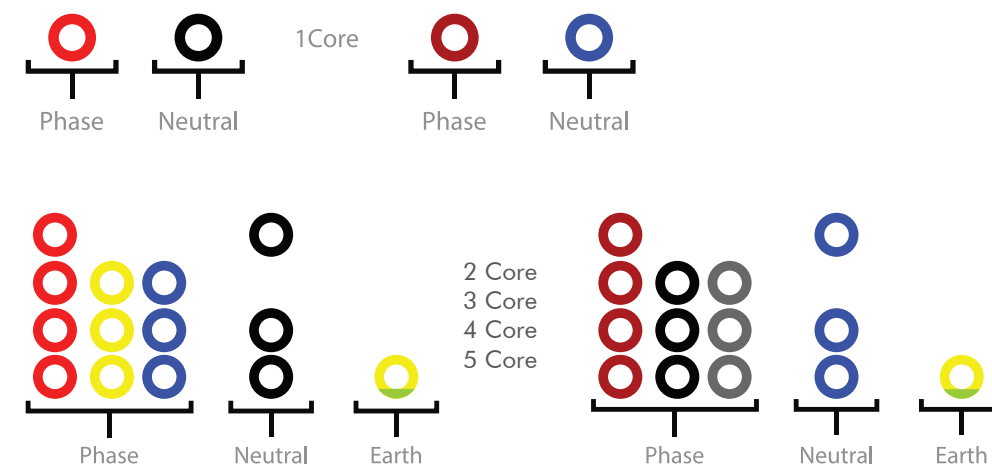
Single or multi core energy cables with solid, stranded aluminium/copper conductor, XLPE insulation with armour of galvanized round steel wires (Aluminium wires for single core cables), and PVC outer sheath.

TECHNICAL DATA

- Colour of outer sheath: Black (Other colours are available on request).
- Permissible operating temperature: 90 °C
 - Permissible short-circuit temperature: 250 °C
(For short circuit duration up to 5 sec.)



CORE COLOUR IDENTIFICATION



*Inner and outer sheath are also available in different materials: FRLS-PVC, PE or LSZH

LOW VOLTAGE CABLES

AC APPLICATION AIRBAG™

LV CABLES 1 KV.

APPLICATIONS

These cables absorb kinetic energy of a shock by its deformation. AIR BAG™ cables are much lighter, flexible, and easy to install than a traditional armored cable. They're suitable for heavy operating conditions, laying and installation. They're used in underground and under normal and salty water if specially produced.

DESCRIPTION AND STANDARD

AL/PVC/AIRBAG™/PVC 0.6/1 kV IEC 60502-1

CU/PVC/AIRBAG™/PVC 0.6/1 kV IEC 60502-1

CONSTRUCTION

Single or multi core energy cables with solid, stranded aluminium/copper conductor, PVC insulation with AIRBAG™® protection layer and PVC outer sheath.

TECHNICAL DATA

- Colour of outer sheath: Black (Other colours are available on request).
 - Permissible operating temperature: 70 °C
 - Permissible short-circuit temperature: 160 °C
- (For short circuit duration up to 5 sec.)

DESCRIPTION AND STANDARD

AL/XLPE/AIRBAG™/PVC 0.6/1 kV IEC 60502-1

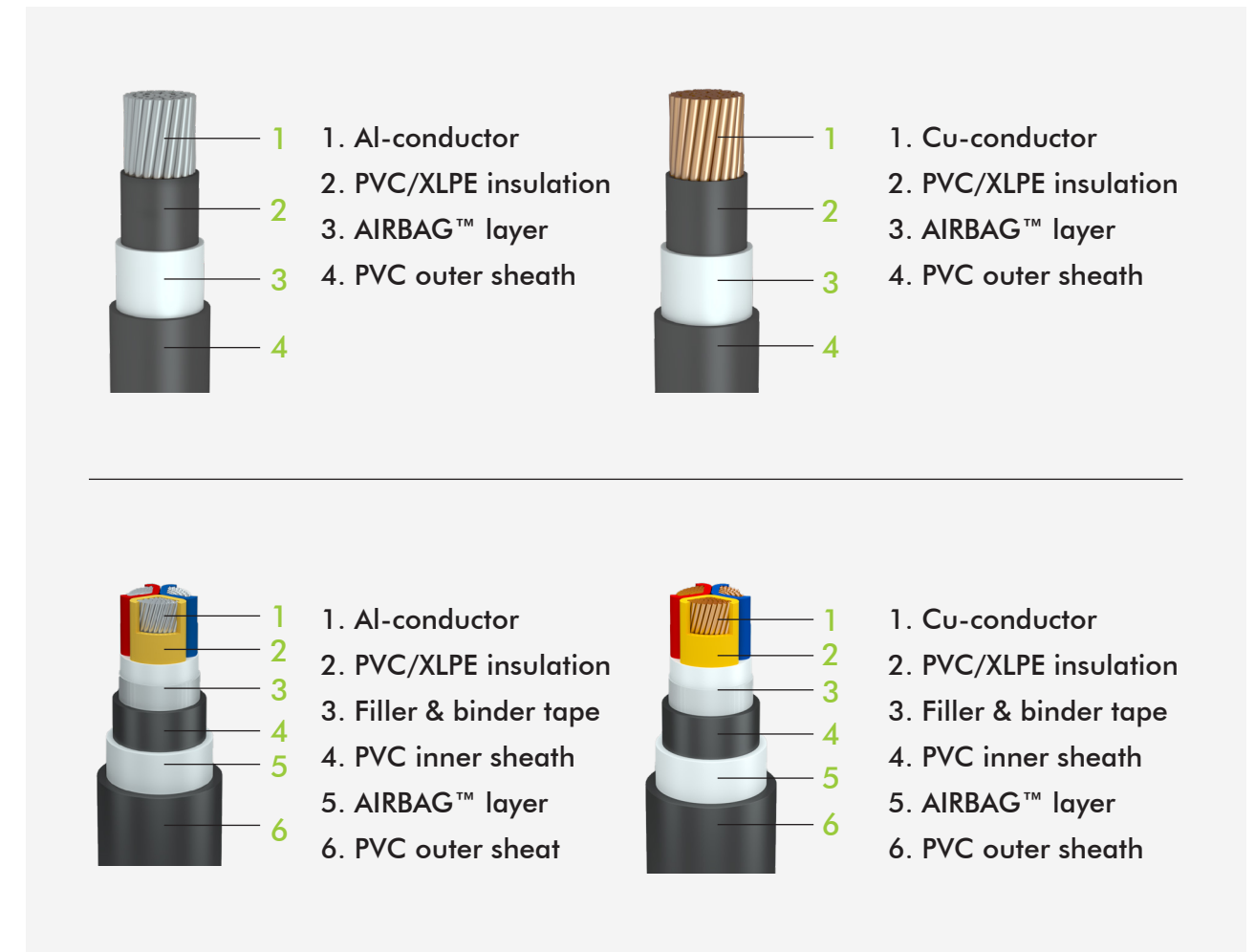
CU/XLPE/AIRBAG™/PVC 0.6/1 kV IEC 60502-1

CONSTRUCTION

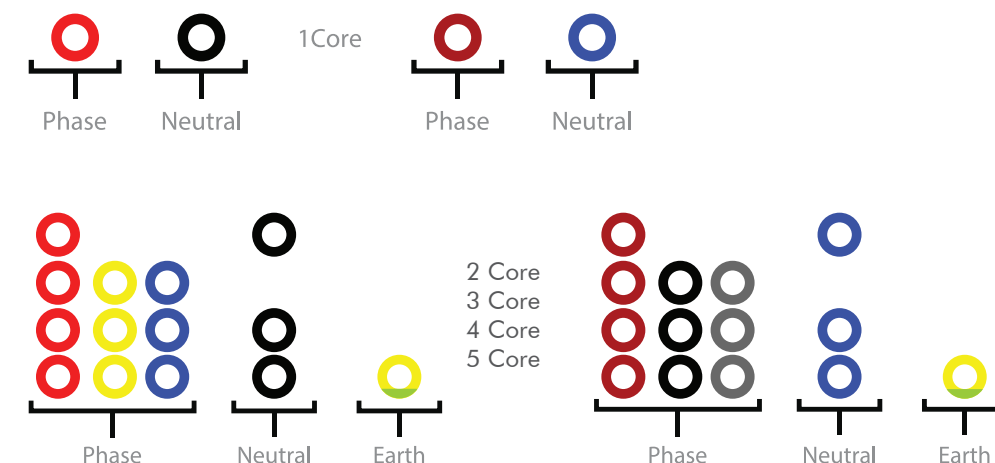
Single or multi core energy cables with solid, stranded aluminium/copper conductor, XLPE insulation with AIRBAG™® protection layer and PVC outer sheath.

TECHNICAL DATA

- Colour of outer sheath: Black (Other colours are available on request).
 - Permissible operating temperature: 90 °C
 - Permissible short-circuit temperature: 250 °C
- (For short circuit duration up to 5 sec.)



CORE COLOUR IDENTIFICATION



*Inner and outer sheath are also available in different materials: FRLS-PVC, PE or LSZH

LOW VOLTAGE CABLES

DC APPLICATION ARMoured

LV CABLES 3 KV.

APPLICATIONS

These cables are resistant against outer mechanical reactions with their armour of galvanized steel or aluminium wires. They're suitable for heavy operating conditions, laying and installation. They're used in underground and under normal and salty water if specially produced.

DESCRIPTION AND STANDARD

AL/PVC/AWA or SWA/PVC 3 kV IEC 60502-1
CU/PVC/AWA or SWA/PVC 3 kV IEC 60502-1

CONSTRUCTION

Single or multi core energy cables with solid, stranded aluminium/copper conductor, PVC insulation, with armour of galvanized round steel wires (Aluminium wires for single core cables, and PVC outer sheath.

TECHNICAL DATA

- Colour of outer sheath: Black (Other colours are available on request).
 - Permissible operating temperature: 70 °C
 - Permissible short-circuit temperature: 160 °C
- (For short circuit duration up to 5 sec.)

DESCRIPTION AND STANDARD

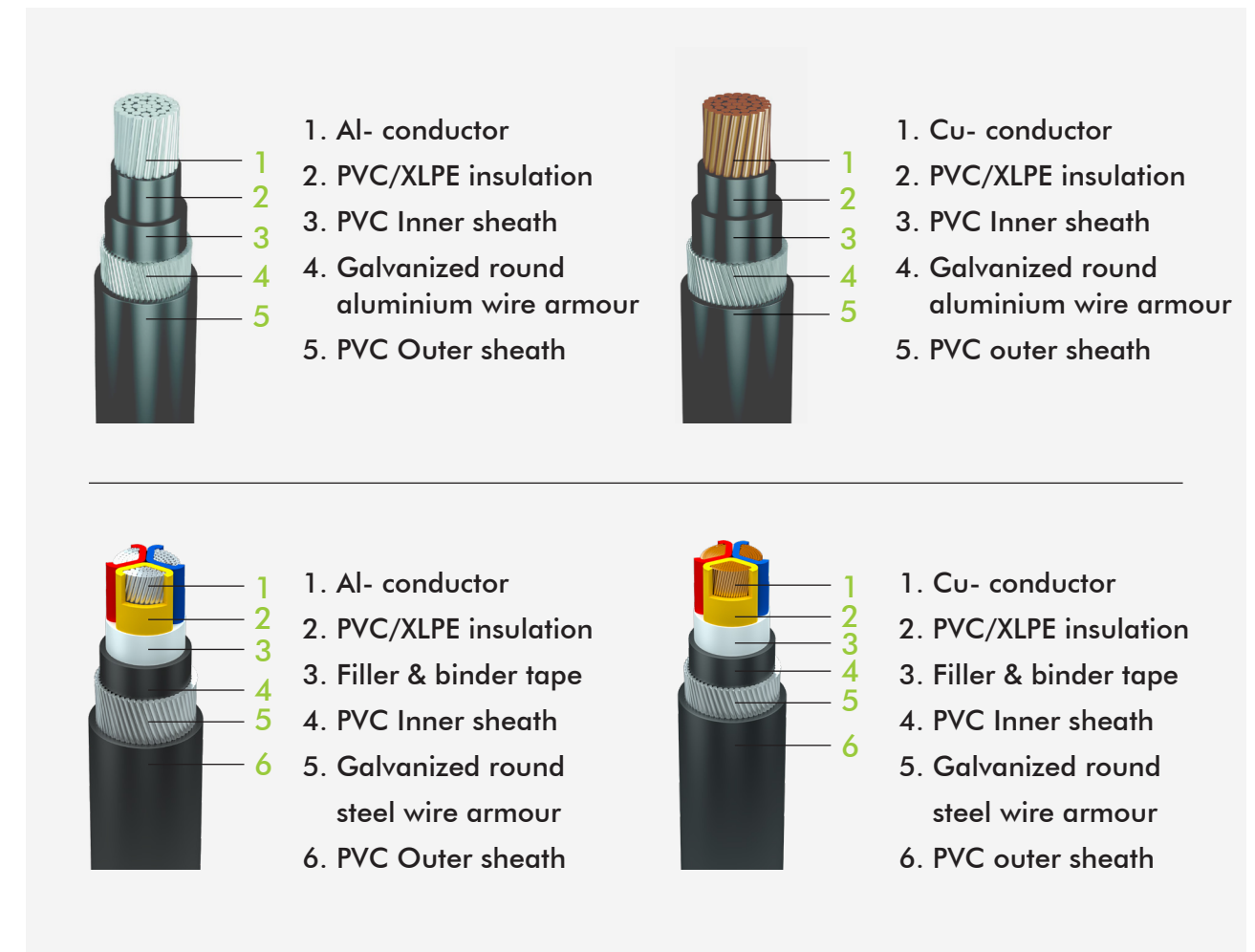
AL/XLPE/AWA or SWA/PVC 3 kV IEC 60502-1
CU/XLPE/AWA or SWA/PVC 3 kV IEC 60502-1

CONSTRUCTION

Single or multi core energy cables with solid, stranded aluminium/copper conductor, XLPE insulation, with armour of galvanized round steel wires (Aluminium wires for single core cables, and PVC outer sheath.

TECHNICAL DATA

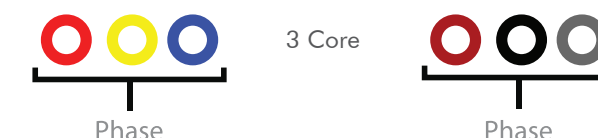
- Colour of outer sheath: Black (Other colours are available on request).
- Permissible operating temperature: 90 °C
 - Permissible short-circuit temperature: 250 °C
- (For short circuit duration up to 5 sec.)



CORE COLOUR IDENTIFICATION



CORE COLOUR IDENTIFICATION



*Inner and outer sheath are also available in different materials: FRLS-PVC, PE or LSZH

LOW VOLTAGE CABLES

DC APPLICATION AIRBAG™

LV CABLES 3 KV ●

APPLICATIONS

These cables absorb kinetic energy of a shock by its deformation and suitable for heavy operating conditions, laying and installation. Used generally for city utilities, street lightings, household appliances, underground and under normal and salty water if specially produced.

DESCRIPTION AND STANDARD

AL/PVC/AIRBAG™/PVC 3 kV IEC 60502-1

CU/PVC/AIRBAG™/PVC 3 kV IEC 60502-1

CONSTRUCTION

Single or multi core energy cables with solid, stranded aluminium/copper conductor, PVC insulation with AIRBAG™® protection layer and PVC outer sheath.

TECHNICAL DATA

Colour of outer sheath: Black (Other colours are available on request).

- Permissible operating temperature: 70 °C
 - Permissible short-circuit temperature: 160 °C
- (For short circuit duration up to 5 sec.)

DESCRIPTION AND STANDARD

AL/XLPE/AIRBAG™/PVC 3 kV IEC 60502-1

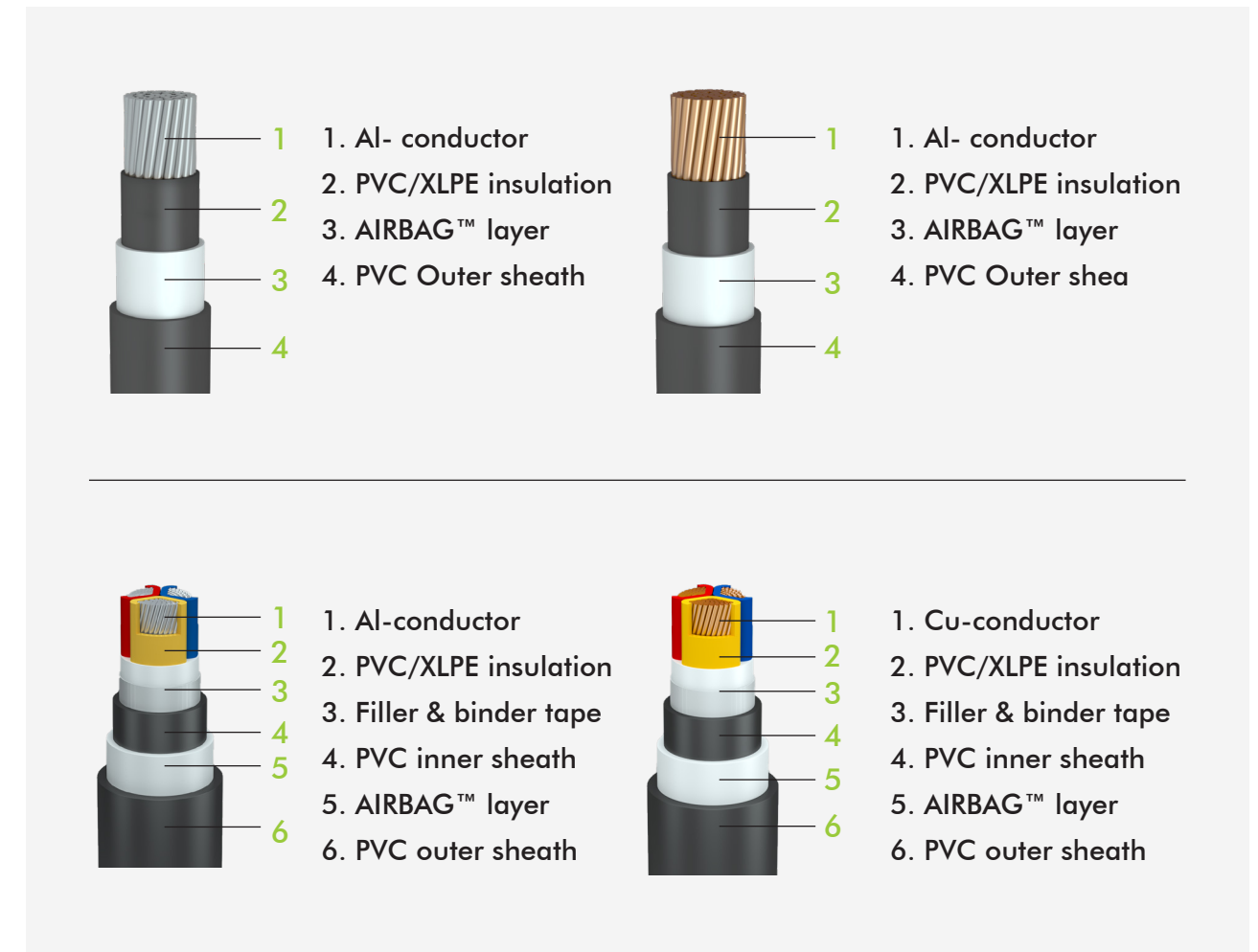
CU/XLPE/AIRBAG™/PVC 3 kV IEC 60502-1

CONSTRUCTION

Single or multi core energy cables with solid, stranded aluminium/copper conductor, XLPE insulation with AIRBAG™® protection layer and PVC outer sheath.

TECHNICAL DATA

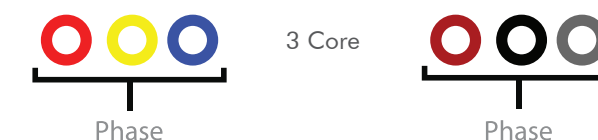
- Colour of outer sheath: Black (Other colours are available on request).
 - Permissible operating temperature: 90 °C
 - Permissible short-circuit temperature: 250 °C
- (For short circuit duration up to 5 sec.)



CORE COLOUR IDENTIFICATION



CORE COLOUR IDENTIFICATION



*Inner and outer sheath are also available in different materials: FRLS-PVC, PE or LSZH

MEDIUM VOLTAGE CABLES – ARMoured

APPLICATIONS

These cables have very low electrical loss compared to their similar and they are used in cable ducts, outdoor and indoor installations, underground where the short circuit levels are high such as urban and industrial areas fed by electrical energy. They are also used under normal and salty water if specially produced.

DESCRIPTION AND STANDARD

AL/XLPE/SCR/ARMOUR/PVC 18/30 kV or 20,3/35 kV
CU/XLPE/SCR/ARMOUR/PVC 18/30 kV or 20,3/35 kV

CONSTRUCTION

Single core medium voltage energy cables with stranded aluminium/copper conductors, XLPE insulation, special inner and outer semi-conductive layers on conductors and insulation, metallic screen on each core, armour and (PVC) outer sheath.

TECHNICAL DATA

These cables are produced according to IEC 60502-2.

- Metallic Screen Material: Copper Tape (CUT) or Copper Wires (CWS).
- Armour Material: Double Aluminium Tape or Round Aluminium Wire Armour.
- Colour of outer sheath: Red or Black (Special colours are available on request).
- Permissible operating temperature: 90 °C
- Permissible short-circuit temperature: 250 °C (For short circuit duration up to 5 sec.)

DESCRIPTION AND STANDARD

AL/XLPE/SCR/ARMOUR/PVC 18/30 kV or 20,3/35 kV
CU/XLPE/SCR/ARMOUR/PVC 18/30 kV or 20,3/35 kV

CONSTRUCTION

Three-core medium voltage energy cables with Alumin copper conductors, XLPE insulation, special inner and outer semi-conductive layers on conductors and insulation, metallic screen on each core, armour and (PVC) outer sheath.

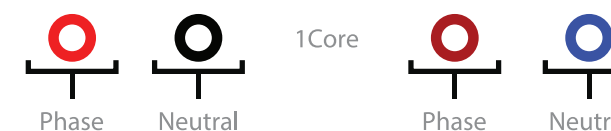
TECHNICAL DATA

These cables are produced according to IEC 60502-2.

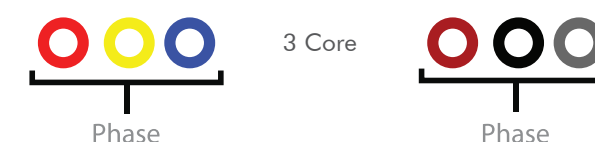
- Metallic Screen Material: Copper Tape (CUT) or Copper Wires (CWS).
- Armour Material: Galvanized double Steel Tape or Galvanized round Steel Wire Armour
- Colour of outer sheath: Red or Black (Special colours are available on request).
- Permissible operating temperature: 90 °C
- Permissible short-circuit temperature: 250 °C (For short circuit duration up to 5 sec.)



CORE COLOUR IDENTIFICATION



CORE COLOUR IDENTIFICATION



*Inner and outer sheath are also available in different materials: FRLS-PVC, PE or LSZH

MEDIUM VOLTAGE CABLES – AIRBAG™

APPLICATIONS

These cables have very low electrical loss compared to their similar and they are used in cable ducts, outdoor and indoor installations, underground where the short circuit levels are high such as urban and industrial areas fed by electrical energy. They are also used under normal and salty water if specially produced.

DESCRIPTION AND STANDARD

AL/XLPE/SCR/AIRBAG™/PVC 18/30 kV or 20,3/35 kV
CU/XLPE/SCR/AIRBAG™/PVC 18/30 kV or 20,3/35 kV

CONSTRUCTION

Single core medium voltage energy cables with stranded aluminium/copper conductors, XLPE insulation, special inner and outer semi-conductive layers on conductors and insulation, metallic screen, AIRBAG™ protection layer and (PVC) outer sheath.

TECHNICAL DATA

These cables are produced according to IEC 60502-2.

- Metallic Screen Material: Copper Tape (CUT) or Copper Wires (CWS).
- Colour of outer sheath: Red or Black (Special colours are available onrequest).
- Permissible operating temperature: 90 °C
- Permissible short-circuit temperature: 250 °C

DESCRIPTION AND STANDARD

AL/XLPE/SCR/AIRBAG™/PVC 18/30 kV or 20,3/35 kV
CU/XLPE/SCR/AIRBAG™/PVC 18/30 kV or 20,3/35 kV

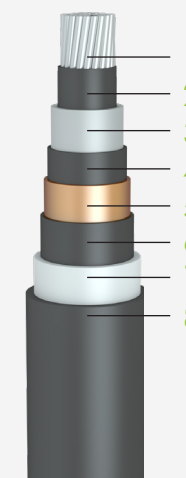
CONSTRUCTION

Three-core medium voltage energy cables with stranded aluminium/copper conductors, XLPE insulation, special inner and outer semi-conductive layers on conductors and insulation, metallic screen on each core, AIRBAG™ protection layer and PVC outer sheath.

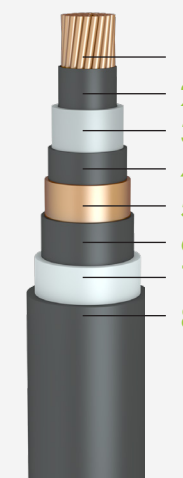
TECHNICAL DATA

These cables are produced according to IEC 60502-2.

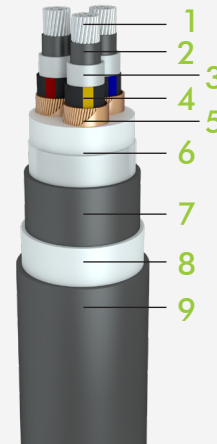
- Metallic Screen Material: Copper Tape (CUT) or Copper Wires (CWS).
- Colour of outer sheath: Red or Black (Special colours are available on request).
- Permissible operating temperature: 90 °C
- Permissible short-circuit temperature: 250 °C (For short circuit duration up to 5 sec.)



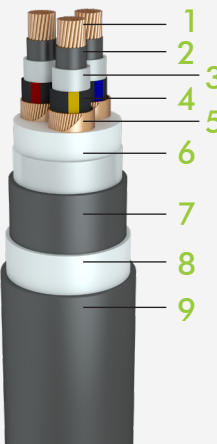
1. Al-conductor
2. Semi-conducting conductor screen
3. XLPE insulation
4. Semi-conducting insulation screen
5. Copper tape screen
6. PVC inner sheath
7. AIRBAG™ layer
8. PVC outer sheath



1. Cu-conductor
2. Semi-conducting conductor screen
3. XLPE insulation
4. Semi-conducting insulation screen
5. Copper tape screen
6. PVC inner sheath
7. AIRBAG™ layer
8. PVC outer sheath

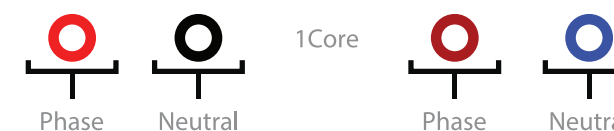


1. Al-conductor
2. Semi-conducting conductor screen
3. XLPE insulation
4. Semi-conducting insulation screen
5. Copper wires screen
6. Filler & binder tape
7. PVC inner sheath
8. AIRBAG™ layer
9. PVC outer sheath

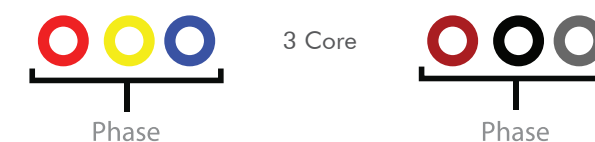


1. Cu-conductor
2. Semi-conducting conductor screen
3. XLPE insulation
4. Semi-conducting insulation screen
5. Copper wires screen
6. Filler & binder tape
7. PVC inner sheath
8. AIRBAG™ layer
9. PVC outer sheath

CORE COLOUR IDENTIFICATION



CORE COLOUR IDENTIFICATION



*Inner and outer sheath are also available in different materials: FRLS-PVC, PE or LSZH

SPECIAL CABLES – FIBER OPTIC AND DATA ●

FIBER OPTIC CABLES APPLICATIONS

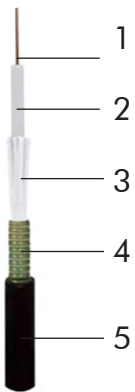
This central loose tube armoured optical cable is designed for outdoor installation in duct or direct buried.

FTL1 GF5E CONSTRUCTION

The central loose tube is supported with waterproof thermoplastic material, tension strength is increased by glass yarn material. Longitudinally copolymer material coated corrugated steel tape armoured with black coloured PE outer sheath .

TECHNICAL DATA

Temperature for stationary condition: -25 °C, +70 °C
Temperature for moving condition: -10 °C, +50 °C



- 1. Fiber
- 2. Central loose tube
- 3. Dielectric reinforcement material
- 4. Copolymer corrugated steel armour
- 5. Black PE sheath

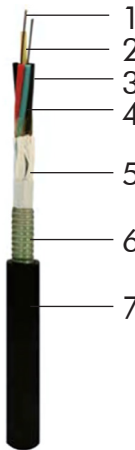
Fiber	SM652D	OM1	OM2	OM3
4	✓	✓	✓	✓
6	✓	✓	✓	✓
8	✓	✓	✓	✓
10	✓	✓	✓	✓
12	✓	✓	✓	✓
16	✓	✓	✓	✓
24	✓	✓	✓	✓

A-DF(ZN)(SR)2Y CONSTRUCTION

Thermoplastic multi-tubes, the tubes are twisted around of a center element by the SZ method, filled with waterproof material, tension strength is increased by glass yarn material, copolymer material coated longitudinally corrugated steel tape armored, with black colored PE outer sheath.

TECHNICAL DATA

Temperature for stationary condition: -30 °C, +70 °C
Temperature for moving condition: -10 °C, +50 °C



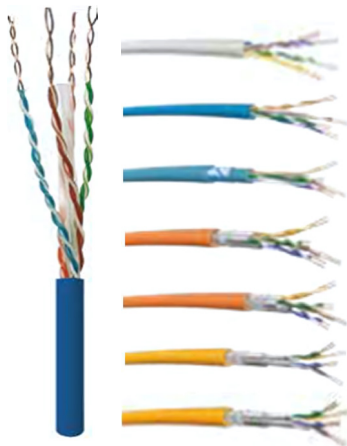
- 1. Fiber
- 2. FRP central strength member
- 3. Thermoplastic tube
- 4. Filling material
- 5. Peripheral reinforcement material
- 6. Copolymer corrugated steel armour
- 7. Black PE sheath

Fiber	SM652D	OM1	OM2	OM3
24	✓	✓	✓	✓
36	✓	✓	✓	✓
48	✓	✓	✓	✓
60	✓	✓	✓	✓
72	✓	✓	✓	✓
96	✓	✓	✓	✓
144	✓	✓	✓	✓

DATA CABLES – CATEGORY TYPE CABLES

APPLICATIONS

These cables are used for carrying digital and analog voice, data and video signals. PVC, LSZH, LSZH-FR,PE, armoured, unarmoured versions are available.



TYPES	FREQUENCY MHZ	EN 50173	ISO/IEC 11801 2 ED
UC 300	100	Cat 5e Class D	Cat 5e Class D
UC 400	250	Cat 6 Class E	Cat 6 Class E
UC 500	500	Cat 6 _A Class E _A	Cat 6 _A Class E _A
UC 900	600	Cat 7 Class F	Cat 7 Class F
UC 1200	1200	Cat 7 Class F _A	Cat 7 Class F _A
UC 1500	1200	Cat 7 Class F _A	Cat 7 Class F _A
UC multimedia	1500	MULTIMEDIA	MULTIMEDIA

ACCESSORIES ●

PRODUCT CATEGORY	DESCRIPTION	VOLTAGE GRADE	USES AND APPLICABLE STANDARDS	
JOINTS	Elastic straight through joint with mechanical connector	MV up to 18/30 (36) kV	For single core polymeric cables Generally, meets the requirements of IEEE 404 – CENELEC HD 629.1 S2 IEC 60502-4 – EDF HN33E03 Mechanical connector: IEC 61238-1 class A, HN 68-S-91	 elaspeed
TERMINATIONS	Indoor single core & 3 core termination- ELTI-1C ELTI-3C	MV up to 18/30 (36) kV	For polymeric cables - Slip-on termination - Modular type C 33-001 - HD 629-1 - IEC 60502- 4 - ANSI/IEEE 48	 elasticfit
	Indoor single core & 3 core termination- CDTI-1C CDTI-3C	MV up to 18/30 (36) kV	For polymeric cables -Coldfit termination with & w/o mechanical lugs. Generally meets the requirements of CENELEC HD 629.1 S2-IEEE 48- IEC 60502-4	 Coldfit
	Outdoorsingle core & 3 core termination- ELTO-1C ELTO-3C	MV up to 18/30 (36) kV	For polymeric cables - Slip-on termination - Modular type C 33-001 - HD 629-1 - IEC 60502- 4 - NF C 33-052-IEEE 48	 elasticfit
	Outdoor single core & 3 core termination- CDT0-1C CDT0-3C	MV up to 18/30 (36) kV	For polymeric cables -Coldfit termination with & w/o mechanical lugs. Generally meets the requirements of CENELEC HD 629.1 S2-IEEE 48 – IEC 60502-4	 Coldfit
CONNECTORS	Separable tee connector (up to 630 mm ²) (Interface C / 630A)	MV up to 18/30 (36) kV	For polymeric cables - Deadbreak - Operation Generally meets the requirement of C 33-001 - C 33-051 - HD 629.1 S2 - IEC 60502-4. Interface GENELEC EN 50180 - EN 50181	 formfit
	Separable Tee & Compact Tee connector with mechanical conductor contact up to 240mm ² (interface C / 630 A)	MV up to 18/30 (36) kV	For polymeric cables – Deadbreak operation Generally, meets the requirements of C 33-051 - CENELEC HD 629.1 S2 – IEC 60502-4. Interfaces: CENELEC EN 50180 – EN 50181, Mechanical conductor contact: IEC 61238-1 class A	 elascon

PRYCAM PORTABLE

INNOVATIVE SOLUTIONS TO REAL-WORLD CHALLENGES

PD measurement is a key parameter to assess the conditions of any electrical system. Nevertheless, PD testing has never been widely used as a powerful online diagnostic tool due to several limitations of traditional PD technologies, which are usually complex, expensive, unscalable to the whole asset, and nearly impossible to integrate with all key asset parameters. In addition, defect detection and localization can't always be performed online.

THE PRY-CAM ANSWER

PRY-CAM's breakthrough wireless technology allows online, accurate and reliable PD measurements, diagnosis and defect localization.

PRY-CAM allows PD testing to be performed online – i.e. without having to switch the system off – and without the need for a direct connection to what is being tested, which also means greater safety for operators.

PRY-CAM is faster, more data-driven and more effective than ever before, solving problems today and delivering learning for tomorrow.

APPLICATIONS

Suitable for any electrical equipment from 3kV to 600kV.
Suitable for cable systems (cables, joints, terminations), GIS, switchgear, transformers, and electrical machines (motors, generators, turbines, etc.)
Suitable for AC and DC.

Use on HV and MV equipment

CABLES

SWITCHGEAR

JOINTS

TRANSFORMERS

TERMINATIONS

ELECTRICAL MACHINES

TO DETECT

TO MONITOR

TO LOCALISE

TO PREVENT

Maximum safety for operators

Very high sampling rate and advanced filtering capabilities

PD measurement outcome with pattern, waveform (Time Domain Analysis) and frequency spectrum (Frequency Domain Analysis)



Patented Ultra Wide Band (UWB) capacitive probe sensor

Enhanced noise rejection

High sensitivity and directivity



KEY FEATURES



NO GALVANIC CONNECTION



WIRELESS DATA TRANSMISSION



USER-FRIENDLY MOBILE APPLICATION



LIGHTWEIGHT AND EASY TO CARRY



AUTOMATIC A.I. DIAGNOSIS

PRY-CAM PORTABLE is an integrated portable instrument for the automatic acquisition, processing and classification of pulse signals generated by PD phenomena occurring in insulating materials of Medium and High Voltage electrical systems and equipment, such as transformers, electrical machines, cables systems and switchgear.

It provides an instant snapshot of the condition of the object being monitored, that is easy and immediate to read thanks to a red-yellow-green traffic-light-like visual interface.

Automatic pre-diagnosis is based on the PRY-CAM BRAIN™ artificial intelligence algorithm.

Wireless data transmission paired with the absence of galvanic connections ensure maximum safety for operators.

WHY PRY-CAM PORTABLE IS GOOD FOR YOUR BUSINESS



100% successful diagnosis on HV and MV
80% measurement time saved against traditional technologies.
Up to 5x higher sensitivity on small defects.
One device for all types of equipment and all voltage classes.
Cost saving generated by online (system in operation) measurement.
Easy to use – training available.
Reliable remote diagnosis by PD expert on demand

BUILDING SUSTAINABLE GROWTH ●

Head Office and Factory

PO Box 25 Rusayl, Postal Code 124
Sultanate of Oman
Tel: + 968 2444 3100 Fax: + 968 2444 6096
E-mail: omancables@omancables.com
Website: www.omancables.com

Marketing

PO Box 25 Rusayl, Postal Code 124
Sultanate of Oman
Tel: + 968 2444 3100 Fax: + 968 2444 6096
E-mail: marketing@omancables.com

UAE Office

PO Box 25864, Sharjah
United Arab Emirates
Tel: +971 6-5448445 Fax: +971 6 5447901
sharjah.office@omancables.com

Qatar Office

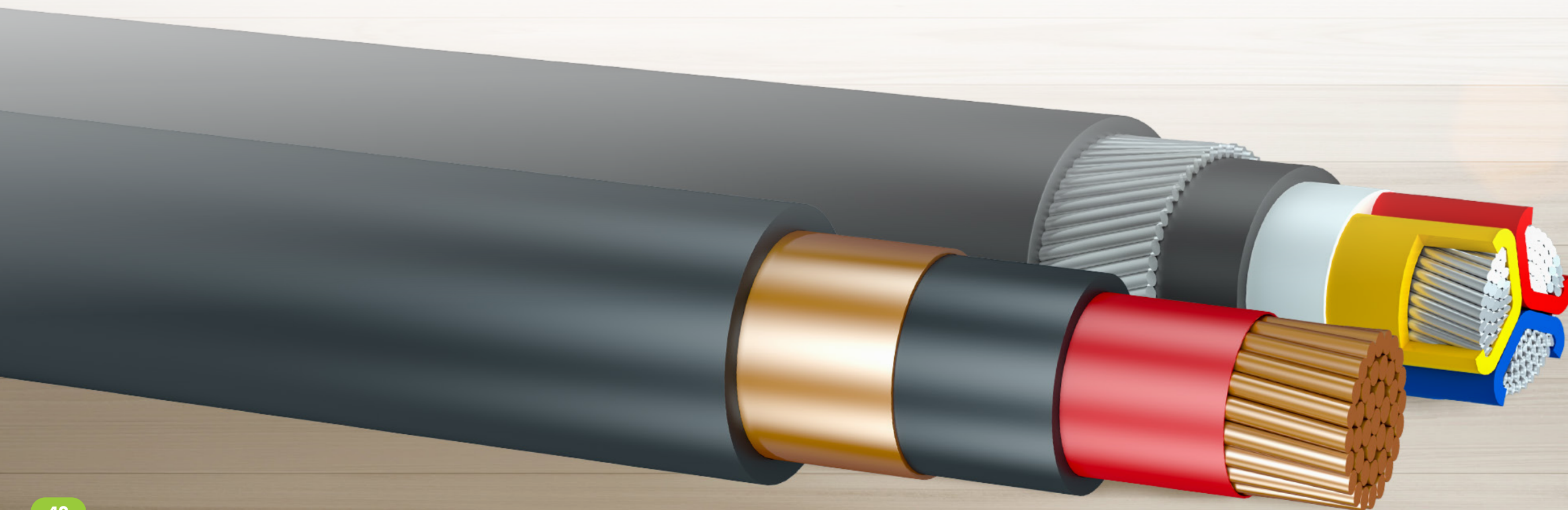
PO Box 24410, Salwa Road
Doha (Qatar)
Tel: +974 4468 8384 / + 974 4458 0482
Fax: +974 4468 7663
doha.office@omancables.com

Saudi Arabia Office

Uthman Bin Affan, Above Al Nahdi Pharmacy,
Floor no.1 Office no. 4
Riyadh Kingdom of Saudi Arabia
Tel: +966 11 2068055 Fax: +966 11 2142730
riyadh.office@omancables.com

Egypt Office

Office No.418, The 47th Building, North 90th Street
New Cairo, Egypt
Tel: +202 2503 2986
egypt.office@omancables.com





Part of  prysmian



Sultanate of Oman - Muscat. Plot #206, Road 2, P.O. Box: 25, Rusayl, P.C. 124
Tel +968 2444 3100 | **Fax** +968 2444 6096
solar@omancables.com
omancables.com