EN

Armoured Cables

For Hazardous Locations

sumcab
specialcable group

OIL & GAS INDUSTRY

OTHER INDUSTRIES

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specialcable group

OIL & GAS INDUSTRY

POTENTIALLY HAZARDOUS

Class I GASES · VAPORS · LIQUIDS

Petrosumsave®

Zone 0	An area in which an explosive mixture is continuously present, is present for prolonged period of time or frequently
Zone 1	An area in which an occasional explosive mixture formation is likely, under normal operating conditions
Zone 2	An area in which an explosive mixture is unlikely, under normal operating conditions; or if it is formed, it will only remains for a short period of time

CPR · Cca · s1b · d1 · a1 · UIC 895 OR

RD 842/2002 ITC-BT-29

MECHANICAL RESISTANCE · HALOGEN FREE · CHEMICAL RESISTANCE

ROHS COMPLIANT · FLAME RETARDANT · NO FIRE PROPAGATION

	SUBSTANCE	TIME OF EXPOSURE	TEMPERATURE
UIC 895 OR cat. II	IRM 902 (ASTM Nº2)	70 hours	100ºC
UIC 895 OR cat. III	IRM 903 (ASTM Nº3)	7 days	70ºC

ATMOSPHERES

OTHER INDUSTRIES

DUST **Class II**

Sumsave®

a1 d1 s1b Cca CPR

RD 842/2002 ITC-BT-29

CHEMICAL RESISTANCE

HF HALOGEN FREE

MECHANICAL RESISTANCE

NO FIRE PROPAGATION

FLAME RETARDANT

RoHs ROHS COMPLIANT

An area in which an explosive mixture is continuously present, is present for prolonged period of time or frequently	**Zone 20**
An area in which an occasional explosive mixture formation is likely, under normal operating conditions	**Zone 21**
An area in which an explosive mixture is unlikely, under normal operating conditions; or if it is formed, it will only remains for a short period of time	**Zone 22**

	SUBSTANCE	TIME OF EXPOSURE	TEMPERATURE
ICEA S-73-532	IRM 902 (ASTM N^{a}2)	4 hours	70ºC

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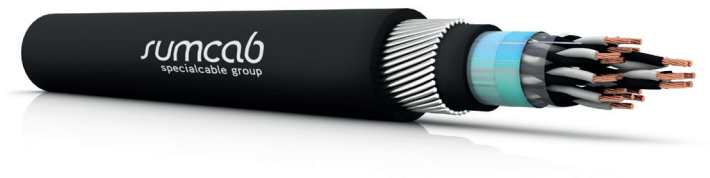
CABLES FOR HAZARDOUS ATMOSPHERES

Petrosumsave®

OIL & GAS INDUSTRY

Z1OZ1MZ1-K RH UIC 895-OR 300/500V Cca

RE-H(St)HSWAH · Cu/LSZH/OS/LSZH/SWA/LSZH



CPR · Cca · s1b · d1 · a1 · UIC 895 OR

Application: Instrumentation and Control Cable for signal transmission and interconnection between field instruments and measurement equipments. Specially designed and approved for the Oil & Gas industry, with a high resistance to hydrocarbons. It is the indicated product for fixed installations, protected or not, where there are or may be gases,vapors or other substances in sufficient quantity to produce explosive or flammable atmospheres.

Areas of application can be highlighted:

- Petrochemical plants
- Liquefied Gas Plants
- Fuel refueling points
- Combined Cycle Plants

Technical data

Design standard	According to EN 50288-7
Rated voltage	300/500 V
Test voltage	2.000 V C.A.
Operating temperature	-25°C to +70°C (fixed installation)
Maximum temperature on the conductor	+70°C
Maximum temperature of shortcircuit	160 °C
Temperature of transportation, storage and installation	0°C to 40°C
Minimum bending radius	10 x Outer diameter in fixed installation
Resistance to the impacts	Very strong (AG4)
Chemical resistance	Excellent
UV resistance	Good

Design

Conductor	Flexible electrolytic bare or tinned copper conductor (Class 5) according to UNE-EN 60228, EN 60228 & IEC 60228
Insulation	Thermoplastic halogen free polyolefin type TI-6 according to UNE-EN 50525-3-11 & EN 50525-3-11
Overall screen	Aluminum/Polyester + tinned copper drain
Bedding	Thermoplastic halogen free polyolefin type TM-7 according to UNE-EN 50525-3-11 & EN 50525-3-11-HR
Armour	Steel wires + counter helix steel tape helically applied
Outer sheath	Thermoplastic halogen free polyolefin type TM-7 according to UNE-EN 50525-3-11 & EN 50525-3-11-HR
Color	Blue or black

General properties

Flame retardant according to UNE-EN 60332-1-2, EN 60332-1-2 & IEC 60332-1-2
No fire propagation, heat emission and rate of fire growth and dropping of inflamed particles according to EN 50399
Halogen free according to UNE-EN 50267, EN 50267 & IEC 60754
Low emission of corrosive gases according to UNE-EN 50267, EN 50267 & IEC 60754 (conductivity < 2,5 µS/mm & pH > 4,3)
Smoke transmittance according to UNE-EN 61034-2, EN 61034-2 & IEC 61034-2
Resistance to mineral oils & hydrocarbons according to UIC-895-OR

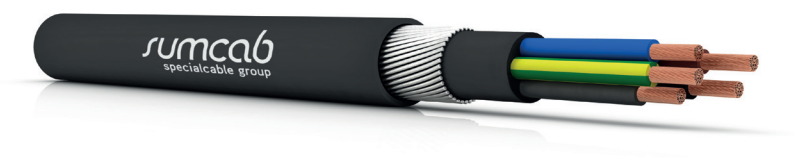
CABLES FOR HAZARDOUS ATMOSPHERES

Petrosumsave®

OIL & GAS INDUSTRY

RZ1MZ1-K RH UIC 895-OR 0,6/1kV Cca

2XHSWAH · Cu/XLPE/LSZH/SWA/LSZH



Cca s1b d1 a1 UIC 895 OR

Application: Power cable for power distribution in LV, connections and lighting. Specially designed and approved for the Oil & Gas industry, with a high resistance to hydrocarbons. It is the indicated product for fixed installations, protected or not, where there are or may be gases, vapors or other substances in sufficient quantity to produce explosive or flammable atmospheres.

Areas of application can be highlighted:

- Petrochemical plants
- Liquefied Gas Plants
- Fuel refueling points
- Combined Cycle Plants

Technical data

Design standard	According to IEC 60502-1 & UNE 21123-4
Rated voltage	0,6/1 kV
Test voltage	3.500 V C.A.
Operating temperature	-25°C a +70°C (fixed installation)
Maximum temperature on the conductor	+90°C
Maximum temperature of shortcircuit	250 °C
Temperature of transportation, storage and installation	0°C to 40°C
Minimum bending radius	10 x Outer diameter in fixed installation
Resistance to the impacts	Very strong (AG4)
Chemical resistance	Excellent
UV resistance	Good

Design

Conductor	Flexible electrolityc bare copper (Class 5) according to UNE-EN 60228, EN 60228 & IEC 60228
Insulation	Cross-linked polyethylene (XLPE) type DIX 3 according to UNE 21123, HD 603 S1 & IEC 60502-1
Identification	Cores code according to UNE 21089 & HD 308 S2
Bedding	Thermoplastic halogen free polyolefin according to UNE 21123 & UNE-HD 603-1-HR
Armour	Steel wires + counter helix steel tape helically applied Minimum coverage 90% according to IEC 60502-1. For single core cables, armour of Aluminium wires + counter helix Aluminium tape
Outer sheath	Thermoplastic halogen free polyolefin type DMZ-E according to UNE 21123 & UNE-HD 603-1-HR
Color	Black

General properties

Flame retardant according to UNE-EN 60332-1-2, EN 60332-1-2 & IEC 60332-1-2
No fire propagation, heat emission and rate of fire growth and dropping of inflamed particles according to EN 50399
Halogen free according to UNE-EN 50267, EN 50267 & IEC 60754
Low emission of corrosive gases according to UNE-EN 50267, EN 50267 & IEC 60754 (conductivity < 2,5 µS/mm & pH > 4,3)
Smoke transmitance according to UNE-EN 61034-2, EN 61034-2 & IEC 61034-2
Resistance to oil materials & hydrocarbons according to UIC-895-OR

CABLES FOR HAZARDOUS ATMOSPHERES

Sumsave®

RZ1MZ1-K 0,6/1kV Cca

2XHSWAH · Cu/XLPE/LSZH/SWA/LSZH

OTHER INDUSTRIES

CPR Cca s1b d1 a1

Application: Power cable for power distribution in LV, connections and lighting. Specially designed and approved for other industries. Indicated for fixed installations, protected or not, where there is or might be flammable dust in sufficient quantity to produce explosions or flammable atmospheres.

Areas of application can be highlighted:

- Handling and storage of grains and derivatives in the food industry
- Processing of wood such as carpentry, sawmills, etc.
- Paper industry
- Fiber manufacturing and processing plants (textile)

Design

Conductor	Flexible electrolityc bare copper (Class 5) according to UNE-EN 60228, EN 60228 & IEC 60228
Insulation	Cross-linked polyethylene (XLPE) type DIX 3 according to UNE 21123, HD 603 S1 & IEC 60502-1
Identification	Conductors according to UNE 21089 & HD 308 S2
Bedding	Thermoplastic halogen free polyolefin according to UNE 21123 & UNE-HD 603-1
Armour	Steel wires + counter-helix steel tape helically applied Minimum coverage 90% according to IEC 60502-1 . For single core cables, armour of Aluminium wires + counter helix Aluminium tape
Outer sheath	Thermoplastic halogen free polyolefin type DMZ-E according to UNE 21123 & UNE-HD 603-1
Color	Green

Technical data

Design standards	According to IEC 60502-1 & UNE 21123-4
Rated voltage	0,6/1 kV
Test voltage	3.500 V C.A.
Operating temperature:	-25°C to +70°C (fixed installation)
Maximum temperature on the conductor	+90°C
Maximum temperature of shortcircuit	250 °C
Temperature of transportation, storage and installation	0°C to 40°C
Minimum bending radius	10 x Outer diameter in fixed instalation
Resistance to the impacts	Very strong (AG4)
Chemical resistance	Good

General properties

Flame retardant according to UNE-EN 60332-1-2, EN 60332-1-2 & IEC 60332-1-2
No fire propagation, heat emission and rate of fire growth and dropping of inflamed particles according to EN 50399
Halogen free accorging to UNE-EN 50267, EN 50267 & IEC 60754
Low emission of corrosive gases according to UNE-EN 50267, EN 50267 & IEC 60754 (conductivity < 2,5 µS/mm & pH > 4,3)
Smoke transmitance according to UNE-EN 61034-2, EN 61034-2 & IEC 61034-2
Resistance to oil according to ICEA S-73-532

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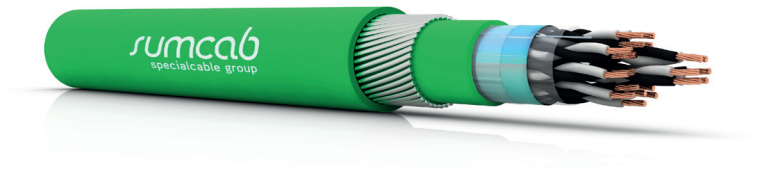
CABLES FOR HAZARDOUS ATMOSPHERES

Sumsave®

OTHER INDUSTRIES

Z1OZ1MZ1-K 300/500V Cca

RE-H(St)HSWAH · Cu/LSZH/OS/LSZH/SWA/LSZH



CPR · Cca · s1b · d1 · a1

Application: Instrumentation and Control Cable for signal transmission and interconnection between field instruments and measurement equipments. Specially designed and approved for other industries, being the one indicated for fixed installations, protected or not, where there is or may be flammable dust in sufficient quantity to produce explosive or flammable atmospheres.

Areas of application can be highlighted:

- Handling and storage of grains and derivatives in the food industry
- Processing of wood such as carpentry, sawmills, etc.
- Paper industry
- Fiber manufacturing and processing plants (textile)

Design

Conductor	Flexible electrolityc bare copper (Class 5) according to UNE-EN 60228, EN 60228 & IEC 60228
Insulation	Thermoplastic halogen free polyolefin type TI-6 according to UNE-EN 50525-3-11 & EN 50525-3-11
Overall screen	Aluminum/Polyester + tinned copper drain
Bedding	Thermoplastic halogen free polyolefin type TM-7 according to UNE-EN 50525-3-11 & EN 50525-3-11
Armour	Steel wires+ counter helix steel tape helically applied
Outer sheath	Thermoplastic halogen free polyolefin type TM-7 according to UNE-EN 50525-3-11 & EN 50525-3-11
Color	Green

Technical data

Design standard	According to EN 50288-7
Rated voltage	300/500 V
Test voltage	2.000 V C.A.
Operating temperature	-25°C to +70°C (fixed installation)
Maximum temperature on the conductor	+70°C
Maximum temperature of shortcircuit	160 °C
Temperature of transportation, storage and installation	0°C to 40°C
Minimum bending radius	10 x Outer diameter in fixed installation
Resistance to the impacts	Very strong (AG4)
Chemical resistance	Good

General properties

Flame retardant according to UNE-EN 60332-1-2, EN 60332-1-2 & IEC 60332-1-2
No fire propagation, heat emission and rate of fire growth and dropping of inflamed particles according to EN 50399
Halogen free according to UNE-EN 50267, EN 50267 & IEC 60754
Low emission of corrosive gases according to UNE-EN 50267, EN 50267 & IEC 60754 Conductivity < 2,5 µS/mm & pH > 4,3)
Smoke transmittance according to UNE-EN 61034-2, EN 61034-2 & IEC 61034-2
Resistance to oil according to ICEA S-73-532

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20 AÑOS
A LA VANGUARDIA
DE LA INDUSTRIA
DEL CABLE

THANK
YOU!

Expect High Performance

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