



Designed for water and liquid applications and equipment, including deep immersion

# POSEIDON®



# OUR HISTORY

**PATELEC GROUP** has over 60 years of technical experience in cords and cables production with worldwide homologations for industrial, professional and consumer applications.

Internal verticalized manufacturing and process, from copper to assembled power supply cordsets, enables a full control of our production chain.

We grant high full procedures control and the highest flexibility in terms of product range and batch size.

Our range includes **customized low voltage cables, cords, harnesses and cable assemblies** in order to offer to our customers high quality complete **connection systems**.



# OUR GLOBAL WORLD



**HEADQUARTERS**  
**PATELEC CORDS AND CABLES**  
**Cerrina (AL) - Italy**



**PATELEC**  
Italy



**PATELEC ELPENA**  
Poland



**PATELEC NINGBO**  
China



**PATELEC JIAXING**  
China

# OUR TECHNICAL KNOW HOW

**PATELEC GROUP** has a high technological **know-how** and a worldwide recognized experience in the production of electrical cables and power cords with a complete integrated vertical production. Patelec has been always investing in **technology** and **innovation** to ensure customized, certified products with high quality standards. By developing new conducting and insulation materials, Patelec continuously supports its customers in product development.



## OUR GLOBAL SALES NETWORK



Our Commercial Team is available to **technically** support and assist customers in choosing the most suitable products according to their needs. Patelec can rely on a well-established presence all over the world thanks to a global network. The current list of our agencies and sales managers can be found on our website: [www.patelec.eu](http://www.patelec.eu)

# OUR QUALITY AND CERTIFICATION

Patelec is committed to providing its customers with value-added products by using a continuous improvement approach.

For this reason Patelec follows a rigorous internal quality management system in compliance with all National and International regulations in force, in terms of Safety and Environment protection.

Our Quality and Environmental System is currently certified ISO 9001 and ISO 14001.



## OUR TESTING PROCESS

Patelec's fully-equipped laboratories with highly advanced instruments, allow a meticulous screening of the raw materials and grant the compliance of standard parameters in product manufacturing. Patelec is available to support its customers in new products development, starting from prototyping to the final product, by simulating the use in extreme conditions.

# VERTICALIZED PROCESS AND FLEXIBILITY

Our internal vertical production, from copper rod to cords, ensures full quality control. The integrated process enables us to develop customized solutions and to supply innovative products, in accordance with markets needs, assuring the highest flexibility in terms of batch sizes per plug and cable type.



## MARKETS AND APPLICATIONS

PATELEC is a perfect global partner, offering to the industrial, professional and consumer markets, a full range of products in terms of customer final applications and worldwide homologations. Our production covers a variety of markets:

from power tools to cleaning products and pumps, electro-medical instruments, from white industry to the professional lighting market, from small to large consumer and professional appliances.

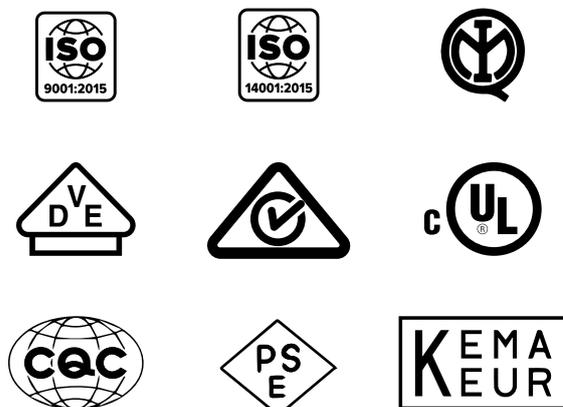


# OUR CORDS AND CABLE HOMOLOGATIONS

## CORDS



## CABLES



# OUR ATTENTION TO THE ENVIRONMENT

**Our Group is committed to limiting the environmental impact of our activities through a sustainable use of natural resources and raw materials which are constantly analyzed by Patelec's laboratories in terms of harmful substances with continuous research.**

**We work hard to prevent pollution in all different processes involved in our industrial operations with a continuous research. We support our customers in developing ecological and avant-garde new products, respecting the existing environmental rules and trying to anticipate new regulations.**

# OUR CABLES PRODUCT LINES for special applications



## POSEIDON®

Designed for water and liquid applications and equipment, including deep immersion and drinking water.

## HERCULES

Patent construction specially designed for extra heavy-duty applications, including oil and water environment.

## THOREX®

Specially designed for use in hazardous areas and suitable for ATEX environment.

## GHELIOS®

Special products developed for all applications that require low smoke generation and low toxicity.

# POSEIDON® SUBWATER CABLES

**POSEIDON® SUBWATER** cable lines have been specifically designed for low-voltage electrical connections for various applications in water and liquids. They have been upgraded beyond industry standard requirements in order to offer higher performance demanded by the field.

Our upgraded **H05RN-F** and **H07RN-F POSEIDON® SUBWATER** cable ranges are rubber sheathed, oil- and flame-resistant cables, highly suited to ensure safety in all applications, including ordinary applications in direct and/or permanent water immersion and not just for use in dry, humid and moist rooms. It finds its perfect usage in water pumps systems and similar water applications.

The **H07RN-F & H07RN8-F FLEX** and **SOFT** ranges are designed for applications and equipment connections subject to continuous mechanical stress requiring extra flexible performances. They are specialist cables for floating switch industries and similar applications.

The **POSEIDON® H07RN8-F** ranges are rubber-sheathed, oil- and flame-resistant cables intended for electrical connections in contaminated water, process water, cooling water, mine surface water, rainwater, waste water and ground water. It is AD-8 certified for immersion up to 10mt deep, suitable for heavy-duty applications.

Thanks to improved mechanical resistance, it provides robust performance up to 60 bar pressure (**600mt deep**) based on countries regulations usage in **ATEX** and hazardous environments.



It is suitable for industrial and agricultural workshops, building sites, industrial and agricultural machines and appliances, permanent outdoor and submerged pumps and similar applications.

The **H07BB-F POSEIDON® CLEAN SUBWATER** flexible cable ranges are approved by **French ACS** and **English WRAS** for direct contact with water and permanent immersion in drinking and clean water. The cables fulfil rigorous testing for appearance, water taste, transparency, colour, and absence of metals, toxic substances and bacterial growth.

The range is classified AD-8 and its usage is guaranteed **up to 600mt deep** withstanding up to 60 bar pressure. Patelec's unique harmonized cable for drinking water is also approved for usage in electric power supply power cords with over-moulded plugs; it's available in the **PATELEC CORDS** range in various country versions. The range supports a wide range of industries from drinking water pumps, processing and preserving food systems, to swimming pool lighting, water treatment and cleaning systems, aquarium equipment, fish-ponds and fountain equipment.

# SHEET INFORMATION

Please find below a little explanation how to read our catalogue

## PRODUCT NAME

Type, lines, performance level

## CERTIFICATIONS

Norm references and approvals

## APPLICATIONS

Main usage features and examples of suitable industries by icons. Please refer to your Patelec contact for specific severe applications (oil and acid features)

## CONSTRUCTION

Information about construction and material used

## INSTALLATION

Suggested installation following the norm directive

POSEIDON®

### POSEIDON® SUBWATER

#### H05RN-F POSEIDON® SUBWATER - 300 / 500V

Ordinary duty cable  
(EPR insulation and PCP or equivalent elastomer sheath)



[BACK TO INDEX](#)







#### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21

**RATED VOLTAGE**  
300/500V

**SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)

**CONDUCTOR OPERATING TEMP.**  
MAX +60°C (EN50565-1)

**INTERNAL BENDING RADIUS**  
MIN 3xD

#### APPLICATIONS

**H05RN-F POSEIDON® SUBWATER CABLE** is a flexible rubber-sheathed cable, oil and flame resistant for ordinary duty applications where cables are subject to low mechanical stress but in direct and for permanent water contact and shadow immersion. Find perfect usage in water pumps systems in various industries and similar water applications.

  
PUMPS  
INDUSTRY

  
INDUSTRIAL  
ENVIRONMENT

  
BUILDING

  
PROFESSIONAL  
LIGHTING

  
AGRICULTURE

#### CONSTRUCTION

<b>CONDUCTOR</b> Red Copper Stranded	<b>FLEXIBILITY</b> Class 5 (EN60228)
<b>INNER SHEATH</b> Ethylene-Propylene rubber EPR	<b>INNER SHEATH COLOR</b> H.D. 308
<b>OUTER SHEATH</b> Synthetic Elastomeric EM2	<b>OUTER SHEATH COLOUR</b> Black *
<b>SEPARATOR</b> Paper	<b>REINFORCEMENT</b>
<b>MARKING</b> PATELEC-CEM IEMMEQU <HAR> H05RN-F POSEIDON® SUBWATER	

#### INSTALLATION

  
**STORAGE TEMPERATURE**  
MAX +40°C

  
**INDOOR MOBILE**

  
**INSTALLATION & HANDLING**  
MIN -25°C (EN50565-2)

  
**WATER RESISTANT**

\* OTHER COLORS ON REQUEST

#### TECHNICAL FEATURES

-  **OIL RESISTANT**  
EN 60811-404
-  **FLAME RESISTANT**  
EN 60332-1-2
-  **COLD RESISTANT**  
-35°C - EN50363-2-1
-  **WATER IMMERSION**
-  **OZONE RESISTANT**
-  **LEAD FREE**
-  **SILICONE FREE**

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## MAIN CHARACTERISTICS

Technical data about tension, temperature, dielectric strength and other relevant data

## TECHNICAL FEATURES

Quick overview by icon of the product technical characteristics

# ICONS

## MAIN CHARACTERISTICS

-  **RATED VOLTAGE**  
450/750V
-  **SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)
-  **CONDUCTOR OPERATING TEMP.**  
MAX +90°C (EN50565-1)
-  **INTERNAL BENDING RADIUS**  
MIN 4xD

## INSTALLATION

-  **STORAGE TEMPERATURE**  
MAX +40°C
-  **INSTALLATION & HANDLING**  
MIN -40°C (EN50565-2)
-  **WATER RESISTANT**
-  **OUTDOOR FIX AND MOBILE**  
EN50565-2
-  **INDOOR MOBILE**
-  **UNDERGROUND TUBING**

## TECHNICAL FEATURES

-  **EXTRA-FLEXIBLE**
-  **OIL RESISTANT**
-  **FLAME RESISTANT**
-  **COLD RESISTANT**  
-40°C
-  **WATER IMMERSION**
-  **WATER IMMERSION**  
AD8
-  **DEEP IMMERSION**  
600 mt
-  **HEAVY-DUTY**
-  **WATER RESISTANT**
-  **OZONE RESISTANT**
-  **UV RESISTANT**
-  **LEAD-FREE**
-  **ATEX**  
EN 60079-14:2014 "Annex E"
-  **HALOGEN FREE**
-  **SILICONE FREE**

Our icons have been designed to provide a quick and brief information about the main product's characteristics in order to allow an overall classification of its main features.



# HAR POSEIDON® SUBWATER CABLES

	H05RN-F	H07RN-F	H07RN-F FLEX	H07RN-F SOFT	H07RN8-F	H07RN8-F FLEX	H07RN8-F SOFT	H07BB-F CLEAN
STANDARDS	EN 50525-2-21							
	300V 500V	450V 750V	450V 750V	450V 750V	450V 750V	450V 750V	450V 750V	450V 750V
	+200°C	+200°C	+200°C	+200°C	+200°C	+200°C	+200°C	+250°C
	+60°C	+60°C	+60°C	+60°C	+60°C	+60°C	+60°C	+90°C
	3xD	3xD	3xD	3xD	3xD	3xD	3xD	3xD
	●	●	●	●	●	●	●	
	●	●	●	●	●	●	●	
			●	●				
	●	●			●	●	●	●
					●	●	●	●
		●			●			
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
								●
					●	●		

# UL POSEIDON® SUBWATER CABLES

	SJTW	SJTOW	SJEW	SJOW	SJOOW	SOOW	SOW
STANDARDS	UL 62/1581						
	300V	300V	300V	300V	300V	600V	600V
	+60°C +75°C +90°C +105°C						
		●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
				●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
			●				
						●	●



# HAR POSEIDON® SUBWATER CABLES



**H05RN-F** **18**

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**H07RN-F** **20**

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**H07RN-F FLEX** **22**

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**H07RN-F SOFT** **24**

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**H07RN8-F** **26**

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**H07RN8-F FLEX** **28**

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**H07RN8-F SOFT** **30**

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**H07BB-F (CLEAN)** **32**

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# MARKING OF HAR CABLES

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2

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		<b>SPECIFICATION REFERENCE</b>
H	1	Cable according to harmonized specification
A		Recognized national type of cable
03	2	<b>RATED VOLTAGE <math>U_0/U</math></b> $U_0/U = 300/300$ V
05		$U_0/U = 300/500$ V
07		$U_0/U = 450/750$ V
V	3	<b>INSULATING MATERIALS</b> Poluvinyl-chloride
R		Syntetic rubber
G		EVA
Z1		Halogen Free
V	4	<b>SHEAT MATERIALS</b> Poluvinyl-chloride
B / R		Syntetic rubber
N		Polychloroprene
T		Textile braid
N4		Polychloroprene
N8		Polychloroprene
G		EVA
Q		Polyeurthane
Z1		Halogen Free
H	5	<b>SPECIAL CONSTRUCTIONS AND SHAPES</b> Flat construction of divisuble cables
H2		Flat construction of non-divisuble cables
F	6	<b>TYPE OF CONDUCTOR</b> Flexible conductor
H		High flexible conductor
	7	<b>NUMBERS OF CORES</b>
G	8	<b>PROTECTIVE CONDUCTOR</b> with green-yellow wire
X		without green-yellow wire
	9	<b>NOMINAL CROSS SECTION CONDUCTOR (mm<sup>2</sup>)</b>

# POSEIDON® SUBWATER

## H05RN-F POSEIDON® SUBWATER - 300 / 500V

Ordinary duty cable  
(EPR insulation and PCP or equivalent elastomer sheath)



### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21

**RATED VOLTAGE**  
300/500V

**SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)

**CONDUCTOR OPERATING TEMP.**  
MAX +60°C (EN50565-1)

**INTERNAL BENDING RADIUS**  
MIN 3xD

### APPLICATIONS

**H05RN-F POSEIDON® SUBWATER CABLE** is a flexible rubber-sheathed cable, oil and flame resistant for ordinary duty applications where cables are subject to low mechanical stress but in direct and /or permanent water contact and shadow immersion. Find perfect usage in water pumps systems in various industries and similar water applications.



### CONSTRUCTION

**CONDUCTOR**  
Red Copper Stranded

**FLEXIBILITY**  
Class 5 (EN60228)

**INNER SHEATH**  
Ethylene-Propylene rubber EI4

**INNER SHEATH COLOR**  
H.D. 308

**OUTER SHEATH**  
Synthetic Elastomeric EM2

**OUTER SHEATH COLOUR**  
Black \*

**SEPARATOR**  
Paper

**REINFORCEMENT**  
-

**MARKING**  
PATELEC-CEM IEMMEQU <HAR> H05RN-F POSEIDON® SUBWATER

### TECHNICAL FEATURES

**OIL RESISTANT**  
EN 60811-404

**FLAME RESISTANT**  
EN 60332-1-2

**COLD RESISTANT**  
-35°C - EN50363-2-1

**WATER IMMERSION**  
AD8

**OZONE RESISTANT**

**UV RESISTANT**

**LEAD-FREE**

**SILICONE FREE**

### INSTALLATION

**STORAGE TEMPERATURE**  
MAX +40°C

**INDOOR MOBILE**

**INSTALLATION & HANDLING**  
MIN -25°C (EN50565-2)

**WATER RESISTANT**

\* OTHER COLORS ON REQUEST

# POSEIDON® SUBWATER

## H05RN-F POSEIDON® SUBWATER - 300 / 500V - EN 50525-2-21

Ordinary duty cable  
(EPR insulation and PCP or equivalent elastomer sheath)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x0,75	5,7	7,4	0,6	0,8	0,21	26	53
2x1	6,1	8,0	0,6	0,9	0,21	19,5	62

### 3 CONDUCT

3G0,75	6,2	8,1	0,6	0,9	0,21	26	65
3G1	6,5	8,5	0,6	0,9	0,21	19,5	76

### 4 CONDUCT

4G0,75	6,8	8,8	0,6	0,9	0,21	26	80
4G1	7,1	9,3	0,6	0,9	0,21	19,5	96



# POSEIDON® SUBWATER

## H07RN-F POSEIDON® SUBWATER - 450 / 750V

Heavy duty cable  
(EPR insulation and PCP or equivalent elastomer sheath)



### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21



**RATED VOLTAGE**  
450/750V



**SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)



**CONDUCTOR OPERATING TEMP.**  
MAX +60°C (EN50565-1)



**INTERNAL BENDING RADIUS**  
MIN 3xD

### APPLICATIONS

**H07RN-F POSEIDON® SUBWATER CABLE** is a flexible rubber-sheathed cable, oil, flame and ozone resistant, suitable for out door and heavy duty applications as industrial and agricultural workshop, building sites, machines and appliances where cable are subject to medium mechanical stress, but in direct and /or permanent water contact and immersion. Find perfect usage in water pumps systems in various industries and similar applications requiring water protection.



**PUMPS  
INDUSTRY**



**INDUSTRIAL  
ENVIRONMENT**



**BUILDING**



**PROFESSIONAL  
LIGHTING**



**AGRICULTURE**

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

Class 5 (EN60228)

**INNER SHEATH**

Ethylene-Propylene rubber EI4

**INNER SHEATH COLOR**

H.D. 308

**OUTER SHEATH**

Synthetic Elastomeric EM2

**OUTER SHEATH COLOUR**

Black \*

**SEPARATOR**

Paper

**REINFORCEMENT**

-

**MARKING**

PATELEC-CEM IEMMEQU <HAR> H07RN-F POSEIDON® SUBWATER

### TECHNICAL FEATURES



**OIL RESISTANT**  
EN 60811-404



**FLAME RESISTANT**  
EN 60332-1-2



**COLD RESISTANT**  
-35°C - EN50363-2-1



**WATER IMMERSION**  
AD8



**HEAVY-DUTY**



**OZONE RESISTANT**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**

### INSTALLATION



**STORAGE TEMPERATURE**  
MAX +40°C



**OUTDOOR FIX AND MOBILE**  
EN50565-2



**INSTALLATION & HANDLING**  
MIN -25°C (EN50565-2)



**INDOOR MOBILE**



**WATER RESISTANT**

\* OTHER COLORS ON REQUEST

# POSEIDON® SUBWATER

## H07RN-F POSEIDON® SUBWATER - 450 / 750V - EN 50525-2-21

Heavy duty cable  
(EPR insulation and PCP or equivalent elastomer sheath)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x1	7,7	10	0,8	1,3	0,21	19,5	90
2x1,5	8,5	11	0,8	1,5	0,26	13,3	113
2x2,5	10,2	13,1	0,9	1,7	0,26	7,98	165
2x4	11,8	15,1	1	1,8	0,31	4,95	230
2x6	13,1	16,8	1	2	0,31	3,30	300

### 3 CONDUCT

3G1	8,3	10,7	0,8	1,4	0,21	19,5	107
3G1,5	9,2	11,9	0,8	1,6	0,26	13,3	135
3G2,5	10,9	14	0,9	1,8	0,26	7,98	195
3G4	12,7	16,2	1	1,9	0,31	4,95	270
3G6	14,1	18	1	2,1	0,31	3,30	360

### 4 CONDUCT

4G1	9,2	11,9	0,8	1,5	0,21	19,5	132
4G1,5	10,2	13,1	0,8	1,7	0,26	13,3	160
4G2,5	12,1	15,5	0,9	1,9	0,26	7,98	238
4G4	14	17,9	1	2	0,31	4,95	337
4G6	15,7	20	1	2,3	0,31	3,30	455

### 5 CONDUCT

5G1	10,2	13,1	0,8	1,6	0,21	19,5	167
5G1,5	11,2	14,4	0,8	1,8	0,26	13,3	213
5G2,5	13,3	17	0,9	2	0,26	7,98	305
5G4	15,6	19,9	1	2,2	0,31	4,95	450



# POSEIDON® SUBWATER

## H07RN-F POSEIDON® SUBWATER FLEX - 450 / 750V

Heavy duty cable for water immersion  
(EPR insulation and PCP or equivalent elastomer sheath)



### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21



**RATED VOLTAGE**  
450/750V



**SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)



**CONDUCTOR OPERATING TEMP.**  
MAX +60°C (EN50565-1)



**INTERNAL BENDING RADIUS**  
-

### APPLICATIONS

**H07RN-F POSEIDON® SUBWATER FLEX** is, thanks to special copper CL 6 construction, is suitable for applications and equipment connections subject to continuous mechanical stresses requiring high flexible performances. Usage in waste water and liquids with oil presence and hydrocarbons with mild acid components. Specialist cable for water floating switch industries and similar applications



FLOATING

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

Class 6 (EN60228)

**INNER SHEATH**

Ethylene-Propylene rubber EI7

**INNER SHEATH COLOR**

H.D. 308

**OUTER SHEATH**

Synthetic Elastomeric EM2

**OUTER SHEATH COLOUR**

Black \*

**SEPARATOR**

Paper

**REINFORCEMENT**

-

**MARKING**

PATELEC-CEM IEMMEQU <HAR> H07RN-F POSEIDON® SUBWATER FLEX

### TECHNICAL FEATURES



**EXTRA-FLEXIBLE**



**OIL RESISTANT**  
EN 60811-404



**FLAME RESISTANT**  
EN 60332-1-2



**COLD RESISTANT**  
-40°C



**WATER IMMERSION**



**OZONE RESISTANT**



**UV RESISTANT**



**SILICONE FREE**



**LEAD-FREE**

### INSTALLATION



**STORAGE TEMPERATURE**  
MAX +40°C



**INSTALLATION & HANDLING**  
MIN 0°C



**WATER RESISTANT**

\* OTHER COLORS ON REQUEST

# POSEIDON® SUBWATER

## H07RN-F POSEIDON® SUBWATER FLEX - 450 / 750V - EN 50525-2-21

Heavy duty cable for water immersion  
(EPR insulation and PCP or equivalent elastomer sheath)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x1	7,70	10,00	0,80	1,30	0,16	19,50	90
2x1,5	8,50	11,00	0,80	1,50	0,16	13,30	113

### 3 CONDUCT

3G1	8,30	10,70	0,80	1,40	0,16	19,50	107
3G1,5	9,20	11,90	0,80	1,60	0,16	13,30	135



# POSEIDON® SUBWATER

## H07RN-F POSEIDON® SUBWATER SOFT - 450 / 750V

Heavy duty cable for water immersion  
(EPR insulation and PCP or equivalent elastomer sheath)



### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21



**RATED VOLTAGE**  
450/750V



**SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)



**CONDUCTOR OPERATING TEMP.**  
MAX +60°C (EN50565-1)



**INTERNAL BENDING RADIUS**  
-

### APPLICATIONS

**H07RN-F POSEIDON® SUBWATER SOFT** thanks to special copper CL 6 construction and to special plasticity and low intrinsic hardness compound, is suitable for applications and equipment connections subject to continuous rapid mechanical stresses and requiring high flexible performances. Special construction grants high resistance to flex and high bending angle even at temperature close to zero. Usage in waste water and liquids with oil presence and hydrocarbons with mild acid components. Specialist cable for water floating switch industries and similar applications



FLOATING

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

Class 6 (EN60228)

**INNER SHEATH**

Ethylene-Propylene rubber EI7

**INNER SHEATH COLOR**

H.D. 308

**OUTER SHEATH**

Synthetic Elastomeric EM2

**OUTER SHEATH COLOUR**

Black \*

**SEPARATOR**

Paper

**REINFORCEMENT**

-

**MARKING**

PATELEC-CEM IEMMEQU <HAR> H07RN-F POSEIDON® SUBWATER SOFT

### INSTALLATION



**STORAGE TEMPERATURE**  
MAX +40°C



**INSTALLATION & HANDLING**  
MIN 0°C



**WATER RESISTANT**

\* OTHER COLORS ON REQUEST

### TECHNICAL FEATURES



**EXTRA-FLEXIBLE**



**OIL RESISTANT**  
EN 60811-404



**FLAME RESISTANT**  
EN 60332-1-2



**COLD RESISTANT**  
-40°C



**WATER IMMERSION**



**OZONE RESISTANT**



**UV RESISTANT**



**SILICONE FREE**



**LEAD-FREE**

# POSEIDON® SUBWATER

## H07RN-F POSEIDON® SUBWATER SOFT - 450 / 750V - EN 50525-2-21

Heavy duty cable for water immersion  
(EPR insulation and PCP or equivalent elastomer sheath)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x1	7,70	10,00	0,80	1,30	0,16	19,50	90
2x1,5	8,50	11,00	0,80	1,50	0,16	13,30	113

### 3 CONDUCT

3G1	8,30	10,70	0,80	1,40	0,16	19,50	107
3G1,5	9,20	11,90	0,80	1,60	0,16	13,30	135



# POSEIDON® SUBWATER

## H07RN8-F POSEIDON® SUBWATER - 450 / 750V

Heavy duty cable for deep immersion  
(EPR insulation and PCP or equivalent elastomer sheath)



### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21



**RATED VOLTAGE**  
450/750V



**SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)



**CONDUCTOR OPERATING TEMP.**  
MAX +60°C (EN50565-1)



**INTERNAL BENDING RADIUS**  
MIN 3xD

### APPLICATIONS

**H07RN8-F POSEIDON® SUBWATER** range is a rubber-sheathed cable oil and flame resistant intended for electrical connection contaminated water, process water, cooling water, mine surface water, rainwater, waste water and ground water. It is AD-8 certified for immersion up to 10mt depth, suitable to heavy duty applications. Thanks to improved mechanical resistance grants robust performances up to 60 bar pressure (**600mt depth**) and based on countries regulations usage in **ATEX** and hazardous environments. Suitable for industrial and agricultural workshops, building sites, industrial and agricultural and machines and appliances.



FLOATING



PUMPS  
INDUSTRY



INDUSTRIAL  
ENVIRONMENT



BUILDING



AGRICULTURE

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

Class 5 (EN60228)

**INNER SHEATH**

Ethylene-Propylene rubber EI7

**INNER SHEATH COLOR**

H.D. 308

**OUTER SHEATH**

Synthetic Elastomeric EM2

**OUTER SHEATH COLOUR**

Black \*

**SEPARATOR**

Paper

**REINFORCEMENT**

-

**MARKING**

PATELEC-CEM IEMMEQU <HAR> H07RN8-F POSEIDON® SUBWATER

### TECHNICAL FEATURES



**OIL RESISTANT**  
EN 60811-404



**FLAME RESISTANT**  
EN 60332-1-2



**COLD RESISTANT**  
-40°C - EN50363-2-1



**HEAVY-DUTY**



**WATER IMMERSION**  
AD8



**DEEP IMMERSION**  
600 mt



**OZONE RESISTANT**



**SILICONE FREE**



**LEAD-FREE**



**ATEX**  
EN 60079-14:2014 "Annex E"

### INSTALLATION



**STORAGE TEMPERATURE**  
MAX +40°C



**OUTDOOR FIX AND MOBILE**  
EN50565-2



**INSTALLATION & HANDLING**  
MIN -25°C (EN50565-2)



**INDOOR MOBILE**



**WATER RESISTANT**

\* OTHER COLORS ON REQUEST

# POSEIDON® SUBWATER

## H07RN8-F POSEIDON® SUBWATER - 450 / 750V - EN 50525-2-21

Heavy duty cable for deep immersion  
(EPR insulation and PCP or equivalent elastomer sheath)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x1	7,70	10,00	0,80	1,30	0,21	19,50	90
2x1,5	8,50	11,00	0,80	1,50	0,26	13,30	113
2x2,5	10,20	13,10	0,90	1,70	0,26	7,98	165
2x4	11,80	15,10	1,00	1,80	0,31	4,95	230
2x6	13,10	16,80	1,00	2,00	0,31	3,30	300

### 3 CONDUCT

3G1	8,30	10,70	0,80	1,40	0,21	19,50	107
3G1,5	9,20	11,90	0,80	1,60	0,26	13,30	135
3G2,5	10,90	14,00	0,90	1,80	0,26	7,98	195
3G4	12,70	16,20	1,00	1,90	0,31	4,95	270
3G6	14,10	18,00	1,00	2,10	0,31	3,30	360

### 4 CONDUCT

4G1	9,20	11,90	0,80	1,50	0,21	19,50	132
4G1,5	10,20	13,10	0,80	1,70	0,26	13,30	160
4G2,5	12,10	15,50	0,90	1,90	0,26	7,98	238
4G4	14,00	17,90	1,00	2,00	0,31	4,95	337
4G6	15,70	20,00	1,00	2,30	0,31	3,30	455

### 5 CONDUCT

5G1	10,20	13,10	0,80	1,60	0,21	19,50	167
5G1,5	11,20	14,40	0,80	1,80	0,26	13,30	213
5G2,5	13,30	17,00	0,90	2,00	0,26	7,98	305
5G4	15,60	19,90	1,00	2,20	0,31	4,95	450
5G6	17,50	22,20	1,00	2,50	0,31	3,30	585

### 6 CONDUCT

6G1,5	13,40	17,20	0,80	2,50	0,26	13,30	287
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# POSEIDON® SUBWATER

## H07RN8-F POSEIDON® SUBWATER FLEX - 450 / 750V

Heavy duty cable for deep immersion  
(EPR insulation and PCP or equivalent elastomer sheath)



### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21



**RATED VOLTAGE**  
450/750V



**SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)



**CONDUCTOR OPERATING TEMP.**  
MAX +60°C (EN50565-1)



**INTERNAL BENDING RADIUS**  
-

### APPLICATIONS

**H07RN8-F POSEIDON® SUBWATER FLEX** is, thanks to special copper CL 6 construction, suitable for applications and equipment connections subject to continuous mechanical stresses requiring high flexible performances. Usage in waste water and liquids with oil presence and hydrocarbons with mild acid components. It is AD-8 certified for immersion up to 10mt depth, suitable to heavy duty applications. Thanks to improved mechanical resistance grants robust performances up to 60 bar pressure (**600mt depth**) and based on countries regulations usage in **ATEX** and hazardous environments.



FLOATING

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

Class 6 (EN60228)

**INNER SHEATH**

Ethylene-Propylene rubber EI7

**INNER SHEATH COLOR**

H.D. 308

**OUTER SHEATH**

Synthetic Elastomeric EM2

**OUTER SHEATH COLOUR**

Black \*

**SEPARATOR**

Paper

**REINFORCEMENT**

-

**MARKING**

PATELEC-CEM IEMMEQU <HAR> H07RN8-F POSEIDON® SUBWATER FLEX

### TECHNICAL FEATURES



**EXTRA-FLEXIBLE**



**OIL RESISTANT**  
EN 60811-404



**FLAME RESISTANT**  
EN 60332-1-2



**COLD RESISTANT**  
-40°C



**WATER IMMERSION**  
AD8



**DEEP IMMERSION**  
600 mt



**OZONE RESISTANT**



**SILICONE FREE**



**LEAD-FREE**



**ATEX**  
EN 60079-14:2014 "Annex E"

### INSTALLATION



**STORAGE TEMPERATURE**  
MAX +40°C



**INSTALLATION & HANDLING**  
MIN 0°C



**WATER RESISTANT**

\* OTHER COLORS ON REQUEST

# POSEIDON® SUBWATER

## H07RN8-F POSEIDON® SUBWATER FLEX - 450 / 750V - EN 50525-2-21

Heavy duty cable for deep immersion  
(EPR insulation and PCP or equivalent elastomer sheath)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x1	7,70	10,00	0,80	1,30	0,16	19,50	90
2x1,5	8,50	11,00	0,80	1,50	0,16	13,30	113

### 3 CONDUCT

3G1	8,30	10,70	0,80	1,40	0,16	19,50	107
3G1,5	9,20	11,90	0,80	1,60	0,16	13,30	135



# POSEIDON® SUBWATER

## H07RN8-F POSEIDON® SUBWATER SOFT - 450 / 750V

Heavy duty cable for water immersion  
(EPR insulation and PCP or equivalent elastomer sheath)



### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21



**RATED VOLTAGE**  
450/750V



**SHORT CIRCUIT TEMP.**  
MAX +200°C (EN59565-2)



**CONDUCTOR OPERATING TEMP.**  
MAX +60°C (EN50565-1)



**INTERNAL BENDING RADIUS**  
-

### APPLICATIONS

**H07RN8-F POSEIDON® SUBWATER SOFT** thanks to special copper CL 6 construction and to special plasticity and low intrinsic hardness compound, is suitable for applications and equipment connections subject to continuous rapid mechanical stresses and requiring high flexible performances. Special construction grants high resistance to flex and high bending angle even at temperature close to zero. Usage in waste water and liquids with oil presence and hydrocarbons with mild acid components. It is AD-8 certified for immersion up to 10mt depth, suitable to heavy duty applications.



FLOATING

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

Class 6 (EN60228)

**INNER SHEATH**

Ethylene-Propylene rubber EI7

**INNER SHEATH COLOR**

H.D. 308

**OUTER SHEATH**

Synthetic Elastomeric EM2

**OUTER SHEATH COLOUR**

Black \*

**SEPARATOR**

Paper

**REINFORCEMENT**

-

**MARKING**

PATELEC-CEM IEMMEQU <HAR> H07RN8-F POSEIDON® SUBWATER SOFT

### TECHNICAL FEATURES



**EXTRA-FLEXIBLE**



**OIL RESISTANT**  
EN 60811-404



**FLAME RESISTANT**  
EN 60332-1-2



**COLD RESISTANT**  
-40°C



**WATER IMMERSION**  
AD8



**DEEP IMMERSION**  
600 mt



**OZONE RESISTANT**



**UV RESISTANT**



**SILICONE FREE**



**LEAD-FREE**

### INSTALLATION



**STORAGE TEMPERATURE**  
MAX +40°C



**INSTALLATION & HANDLING**  
MIN 0°C



**WATER RESISTANT**

\* OTHER COLORS ON REQUEST

# POSEIDON® SUBWATER

## H07RN8-F POSEIDON® SUBWATER SOFT - 450 / 750V - EN 50525-2-21

Heavy duty cable for water immersion  
(EPR insulation and PCP or equivalent elastomer sheath)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x1	7,70	10,00	0,80	1,30	0,16	19,50	90
2x1,5	8,50	11,00	0,80	1,50	0,16	13,30	113

### 3 CONDUCT

3G1	8,30	10,70	0,80	1,40	0,16	19,50	107
3G1,5	9,20	11,90	0,80	1,60	0,16	13,30	135



# POSEIDON® CLEAN SUBWATER

## H07BB-F POSEIDON® CLEAN SUBWATER- 450 / 750V

Heavy duty cable heat resistant 90°C  
(EPR insulation and sheath)



**PATELEC CORDS**

### MAIN CHARACTERISTICS

**STANDARD**  
EN 50525-2-21



**RATED VOLTAGE**  
450/750V



**SHORT CIRCUIT TEMP.**  
MAX +250°C (EN59565-2)



**CONDUCTOR OPERATING TEMP.**  
MAX +90°C (EN50565-1)



**INTERNAL BENDING RADIUS**  
MIN 3xD

### APPLICATIONS

**H07BB-F POSEIDON® CLEAN SUBWATER** flexible cable range is approved by **French ACS** and **English WRAS** for direct contact and permanent immersion in drinking and clean water, fulfilling rigorous testing for appearance, water taste, transparency, colour, and absence of metals and toxic substances and microbiological growth. It is classified AD-8 and its usage is granted up to 600mt depth withstanding up to 60 bar pressure. It supports a wide range of industries from drinking water pumps, processing and preserving food systems, swimming pool lighting, depuration and cleaning systems, aquarium equipment fish-ponds to fountains equipment.



### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

Class 5 (EN60228)

**INNER SHEATH**

Ethylene-Propylene rubber EI7

**INNER SHEATH COLOR**

H.D. 308

**OUTER SHEATH**

Synthetic Elastomeric EM6

**OUTER SHEATH COLOUR**

Blue

**SEPARATOR**

Talc

**REINFORCEMENT**

-

**MARKING**

PATELEC-CEM IEMMEQU <HAR> H07BB-F POSEIDON® CLEAN SUBWATER ACS WRAS

### TECHNICAL FEATURES



**COLD RESISTANT**  
-40°C - EN50363-2-1



**HALOGEN FREE**



**WATER IMMERSION**  
AD8



**DEEP IMMERSION**  
600 mt



**OZONE RESISTANT**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**

### INSTALLATION



**STORAGE TEMPERATURE**  
MAX +40°C



**OUTDOOR FIX AND MOBILE**  
EN50565-2



**INSTALLATION & HANDLING**  
MIN -40°C (EN50565-2)



**INDOOR MOBILE**



**WATER RESISTANT**

\* KTW in progress

# POSEIDON® CLEAN SUBWATER

## H07BB-F POSEIDON® CLEAN SUBWATER - 450 / 750V - EN 50525-2-21

Heavy duty cable heat resistant 90°C  
(EPR insulation and sheath)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x1	7,7	10	0,8	1,3	0,21	19,5	89
2x1,5	8,5	11	0,8	1,5	0,26	13,3	113
2x2,5	10,2	13,1	0,9	1,7	0,26	7,98	165
2x4	11,8	15,1	1	1,8	0,31	4,95	

### 3 CONDUCT

3G1	8,3	10,7	0,8	1,4	0,21	19,5	108
3G1,5	9,2	11,9	0,8	1,6	0,26	13,3	138
3G2,5	10,9	14	0,9	1,8	0,26	7,98	216
3G4	12,7	16,2	1	1,9	0,31	4,95	260

### 4 CONDUCT

4G1	9,2	11,9	0,8	1,5	0,21	19,5	134
4G1,5	10,2	13,1	0,8	1,7	0,26	13,3	171
4G2,5	12,1	15,5	0,9	1,9	0,26	7,98	248
4G4	14	17,9	1	2	0,31	4,95	330

### 5 CONDUCT

5G1	10,2	13,1	0,8	1,6	0,21	19,5	172
5G1,5	11,2	14,4	0,8	1,8	0,26	13,3	210
5G2,5	13,3	17	0,9	2	0,26	7,98	270
5G4	15,6	19,9	1	2,2	0,31	4,95	400





# UL POSEIDON® SUBWATER CABLES



**SJTW** **38**

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**SJTOW** **40**

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**SJEW** **42**

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**SJOW** **44**

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**SJOOW** **46**

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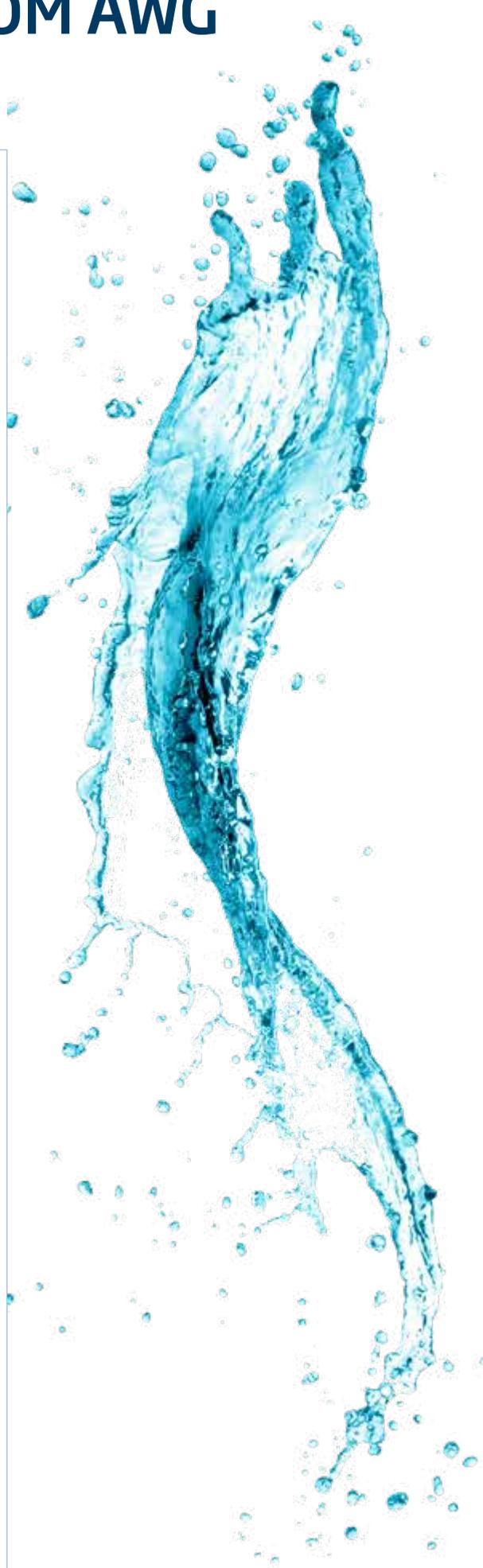
**SOOW** **48**

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**SOW** **50**

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# CONVERSION TABLE FROM AWG TO METRIC MEASURES



AWG	DIAMETER mm	SECTION mm <sup>2</sup>
42	0.0632	0.0031
41	0.0711	0.0040
40	0.0799	0.0050
39	0.0897	0.0063
38	0.1007	0.0080
37	0.1131	0.0100
36	0.1270	0.0127
35	0.1426	0.0160
34	0.1601	0.0201
33	0.1798	0.0254
32	0.2019	0.0320
31	0.2268	0.0404
30	0.2546	0.0509
29	0.2859	0.0642
28	0.3211	0.0810
27	0.3606	0.1021
26	0.4049	0.1288
25	0.4547	0.1624
24	0.5106	0.2047
23	0.5733	0.2582
22	0.6438	0.3255
21	0.7229	0.4104
20	0.8118	0.5176
19	0.9116	0.6527
18	1.024	0.8231
17	1.150	1.038
16	1.291	1.309
15	1.450	1.650
14	1.628	2.081
13	1.828	2.624
12	2.053	3.309
11	2.305	4.172
10	2.588	5.261
9	2.906	6.634
8	3.264	8.366
7	3.665	10.55
6	4.115	13.30
5	4.621	16.77
4	5.189	21.15
3	5.827	26.67
2	6.544	33.63
1	7.348	42.41
0	8.251	53.48
00	9.226	67.43
000	10.40	85.03
0000	11.68	107.20

# MARKING OF UL CABLES

1

2

3

4

5

6

7

8

	1	<b>SPECIFICATION REFERENCE</b> Cable according UL/CSA
300V 600V	2	<b>RATED VOLTAGE U<sub>0</sub>/U</b> Junior (300 V) Service (600 V)
60 C 75 C 90 C 105 C	3	<b>TEMPERATURE</b> 60° C 75° C 90° C 105° C
NR o IR SBR EP IIR CPE CR CSM TPE PVC PE XL FEP NBR	4	<b>INSULATING AND SHEAT MATERIALS</b> Natural rubber or polyisoprene rubber Styrene-butadiene rubber Ethylenepropylene rubber Isobutylene-isoprene rubber Chlorinated polyethylene Polychloroprene Chloro-sulphonyl-polyethylene Thermoplastic elastomer Polyvinyl chloride or copolymer of vinyl chloride and vinyl acetate Polyethylene Cross-linked polyethylene Fluorinated ethylene propylene Acrylonitrile butadiene rubber
SPT NSPT TPT-TST	5	<b>SPECIAL CONSTRUCTIONS AND SHAPES</b>
1 / 2	6	<b>NUMBERS OF CORES</b>
	7	<b>PROTECTIVE CONDUCTOR</b> with green wire (Grounding) without green wire (Grounded)
AWG	8	<b>NOMINAL CROSS SECTION CONDUCTOR (mm<sup>2</sup>)</b>

# POSEIDON® SUBWATER

## SJTW POSEIDON® SUBWATER - 300V

Junior hard service flexible cable water resistant  
(Temperature rating: 60-75-90-105 °C)



### MAIN CHARACTERISTICS

**STANDARD**  
UL 62/1581



**RATED VOLTAGE**  
300V



**CONDUCTOR OPERATING TEMP.**  
60-75-90-105 °C

### APPLICATIONS

**SJTW POSEIDON® SUBWATER CABLE** is a junior hard service UL listed flexible cord. It is PVC sheathed, resistant to. It is specifically suitable for damp location as portable tools, appliance for floor maintenance, cleaning devices, hospital equipment, washing machines, lamp and similar devices.



**PUMPS  
INDUSTRY**



**INDUSTRIAL  
ENVIRONMENT**



**BUILDING**



**PROFESSIONAL  
LIGHTING**



**AGRICULTURE**

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

UL 62 Table 2

**INNER SHEATH**

Ethylene-Propylene rubber

**INNER SHEATH COLOR**

UL 62

**OUTER SHEATH**

Synthetic Elastomeric

**OUTER SHEATH COLOUR**

Black

**SEPARATOR**

Powder

**REINFORCEMENT**

2 X 18 AWG ONLY

**MARKING**

SJTW WATER RESISTANT 60 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJTW WATER RESISTANT 75 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJTW WATER RESISTANT 90 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJTW WATER RESISTANT 105 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

### TECHNICAL FEATURES



**FLAME RESISTANT**  
UL 62/1581



**WATER RESISTANT**



**COLD RESISTANT**  
-40°C



**HEAVY-DUTY**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**

# POSEIDON® SUBWATER

## SJTW POSEIDON® SUBWATER - 300V - UL 62/1581

Junior hard service flexible cable water resistant  
(Temperature rating: 60-75-90-105 °C)

section (mm <sup>2</sup> )	min cable diameter (mm)	max cable diameter (mm)	average thickness insulation (mm)	average thickness sheath (mm)	max wires diameter (mm)	electrical resistance (Ω/km)	approximate weight cable (kg/km)
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### 2 CONDUCT

2x12	10,3	11,6	0,76	1,14	0,41	5,58	136
2x14	8,51	9,53	0,76	0,76	0,26	8,88	103
2x16	7,75	8,64	0,76	0,76	0,26	14,1	88
2x18	7,11	8,00	0,76	0,76	0,26	22,4	65

### 3 CONDUCT

3x12	10,8	12,1	0,76	1,14	0,41	5,58	200
3x14	9,14	10,0	0,76	0,76	0,26	8,58	141
3x16	8,26	9,14	0,76	0,76	0,26	14,1	108
3x18	7,62	8,51	0,76	0,76	0,26	22,4	83

### 4 CONDUCT

4x12	11,8	13,2	0,76	1,14	0,41	5,58	256
4x14	9,91	11	0,76	0,76	0,26	8,58	175
4x16	8,89	10	0,76	0,76	0,26	14,1	132
4x18	8,26	9,27	0,76	0,76	0,26	22,4	100

### 5 CONDUCT

5x12	13,4	15	0,76	1,14	0,41	5,58	465
5x14	11,5	12,9	0,76	0,76	0,26	8,58	344
5x16	10,2	11,4	0,76	0,76	0,26	14,1	183
5x18	9,1	10,2	0,76	0,76	0,26	22,4	138



# POSEIDON® SUBWATER

## SJTOW POSEIDON® SUBWATER- 300V

Junior hard service cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)



### MAIN CHARACTERISTICS

**STANDARD**  
UL 62/1581



**RATED VOLTAGE**  
300V



**CONDUCTOR OPERATING TEMP.**  
60-75-90-105 °C

### APPLICATIONS

**SJTOW POSEIDON® SUBWATER CABLE** is a junior hard service UL listed flexbile cord. It is PVC sheated, resistant to oil and water. It is specifically suitable for damp location as portable tools, appliance for floor maintenance, cleaning devices, hospital equipment, washing machines, lamp and similar devices. It can also be used in harzardous locations according to the specification of ART 502.140.



**PUMPS  
INDUSTRY**



**INDUSTRIAL  
ENVIRONMENT**



**BUILDING**



**PROFESSIONAL  
LIGHTING**



**AGRICULTURE**

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

UL 62 Table 2

**INNER SHEATH**

Ethylene-Propylene rubber

**INNER SHEATH COLOR**

UL 62

**OUTER SHEATH**

Synthetic Elastomeric

**OUTER SHEATH COLOUR**

Black

**SEPARATOR**

Powder

**REINFORCEMENT**

2 X 18 AWG ONLY

**MARKING**

SJTOW WATER RESISTANT 60 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJTOW WATER RESISTANT 75 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJTOW WATER RESISTANT 90 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJTOW WATER RESISTANT 105 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

### TECHNICAL FEATURES



**OIL RESISTANT**  
UL 62/1581



**FLAME RESISTANT**  
UL 62/1581



**WATER RESISTANT**



**COLD RESISTANT**  
-40°C - UL 62/1581



**HEAVY-DUTY**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**

# POSEIDON® SUBWATER

## SJTOW POSEIDON® SUBWATER - 300V UL 62/1581

Junior hard service cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x12	10,3	11,6	0,76	1,14	0,41	5,58	136
2x14	8,51	9,53	0,76	0,76	0,26	8,88	103
2x16	7,75	8,64	0,76	0,76	0,26	14,1	88
2x18	7,11	8,00	0,76	0,76	0,26	22,4	65

### 3 CONDUCT

3x12	10,8	12,1	0,76	1,14	0,41	5,58	200
3x14	9,14	10,0	0,76	0,76	0,26	8,58	141
3x16	8,26	9,14	0,76	0,76	0,26	14,1	108
3x18	7,62	8,51	0,76	0,76	0,26	22,4	83

### 4 CONDUCT

4x12	11,8	13,2	0,76	1,14	0,41	5,58	256
4x14	9,91	11	0,76	0,76	0,26	8,58	175
4x16	8,89	10	0,76	0,76	0,26	14,1	132
4x18	8,26	9,27	0,76	0,76	0,26	22,4	100

### 5 CONDUCT

5x12	13,4	15,0	0,76	1,14	0,41	5,58	465
5x14	11,5	12,9	0,76	0,76	0,26	8,58	344
5x16	10,2	11,4	0,76	0,76	0,26	14,1	183
5x18	9,1	10,2	0,76	0,76	0,26	22,4	138



# POSEIDON® SUBWATER

## SJEW POSEIDON® SUBWATER - 300V

EXTRA HEAVY DUTY FLEX® rubber sheathed cable for high performance



### MAIN CHARACTERISTICS

**STANDARD**  
UL 62/1581



**RATED VOLTAGE**  
300V



**CONDUCTOR OPERATING TEMP.**  
60-75-90-105 °C

### APPLICATIONS

**SJEW POSEIDON® SUBWATER CABLE** is suitable in industrial and agricultural workshops, building sites, heavy duty applications, supplying industrial and agricultural machines and appliances where cables are subject to medium mechanical stresses. Suitable for outdoor use, Water and Oil resistant.



MINE



PUMPS  
INDUSTRY



INDUSTRIAL  
ENVIRONMENT



BUILDING



PROFESSIONAL  
LIGHTING



AGRICULTURE

### CONSTRUCTION

#### CONDUCTOR

Red Copper Stranded

#### FLEXIBILITY

UL 62 Table 2

#### INNER SHEATH

Ethylene-Propylene rubber

#### INNER SHEATH COLOR

UL 62

#### OUTER SHEATH

Synthetic Elastomeric

#### OUTER SHEATH COLOUR

Black

#### SEPARATOR

Powder

#### REINFORCEMENT

2 X 18 AWG ONLY

#### MARKING

SJEW WATER RESISTANT 60 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJEW WATER RESISTANT 75 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJEW WATER RESISTANT 90 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJEW WATER RESISTANT 105 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

### TECHNICAL FEATURES



**OIL RESISTANT**  
UL 62/1581



**FLAME RESISTANT**  
UL 62/1581



**WATER RESISTANT**



**COLD RESISTANT**  
-40°C - UL 62/1581



**HEAVY-DUTY**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**



**HALOGEN FREE**

# POSEIDON® SUBWATER

## SJEW POSEIDON® SUBWATER - 300V - UL 62/1581

EXTRA HEAVY DUTY FLEX® rubber sheathed cable for high performance

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x12	10,3	11,6	0,76	1,14	0,41	5,58	138
2x14	8,51	9,53	0,76	0,76	0,26	8,88	115
2x16	7,75	8,64	0,76	0,76	0,26	14,1	85
2x18	7,11	8,00	0,76	0,76	0,26	22,4	69

### 3 CONDUCT

3x12	10,8	12,1	0,76	1,14	0,41	5,58	200
3x14	9,14	10,0	0,76	0,76	0,26	8,58	138
3x16	8,26	9,14	0,76	0,76	0,26	14,1	108
3x18	7,62	8,51	0,76	0,76	0,26	22,4	85

### 4 CONDUCT

4x12	11,8	13,2	0,76	1,14	0,41	5,58	261
4x14	9,91	11	0,76	0,76	0,26	8,58	177
4x16	8,89	10	0,76	0,76	0,26	14,1	131
4x18	8,26	9,27	0,76	0,76	0,26	22,4	100



# POSEIDON® SUBWATER

## SJOW POSEIDON® SUBWATER - 300V

Ordinary duty cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)



### MAIN CHARACTERISTICS

**STANDARD**  
UL 62/1581



**RATED VOLTAGE**  
300V



**CONDUCTOR OPERATING TEMP.**  
60-75-90-105 °C

### APPLICATIONS

**SJOW POSEIDON® SUBWATER CABLE** is a flexible UL listed cord suitable for outdoor usage in damp and wet location. It is thermoset oil-resistant and suitable for portable tool, equipment or for small engines and associated machinery, appliances, equipment exposed to oil, flame and moistures. All devices requiring flexibility.



**PUMPS  
INDUSTRY**



**INDUSTRIAL  
ENVIRONMENT**



**BUILDING**



**PROFESSIONAL  
LIGHTING**



**AGRICULTURE**

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

UL 62 Table 2

**INNER SHEATH**

Ethylene-Propylene rubber

**INNER SHEATH COLOR**

UL 62

**OUTER SHEATH**

Synthetic Elastomeric

**OUTER SHEATH COLOUR**

Black

**SEPARATOR**

Paper

**REINFORCEMENT**

2 X 18 AWG ONLY

**MARKING**

SJOW WATER RESISTANT 60 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJOW WATER RESISTANT 75 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJOW WATER RESISTANT 90 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJOW WATER RESISTANT 105 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

### TECHNICAL FEATURES



**OIL RESISTANT**  
UL 62/1581



**FLAME RESISTANT**  
UL 62/1581



**WATER RESISTANT**



**COLD RESISTANT**  
-40°C - UL 62/1581



**HEAVY-DUTY**



**OZONE RESISTANT**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**

# POSEIDON® SUBWATER

## SJOW POSEIDON® SUBWATER - 300V - UL 62/1581

Ordinary duty cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x12	10,3	11,6	0,76	1,14	0,41	5,58	166
2x14	8,51	9,53	0,76	0,76	0,26	8,88	115
2x16	7,75	8,64	0,76	0,76	0,26	14,1	86
2x18	7,11	8,00	0,76	0,76	0,26	22,4	71

### 3 CONDUCT

3x12	10,8	12,1	0,76	1,14	0,41	5,58	209
3x14	9,14	10,0	0,76	0,76	0,26	8,58	154
3x16	8,26	9,14	0,76	0,76	0,26	14,1	111
3x18	7,62	8,51	0,76	0,76	0,26	22,4	92

### 4 CONDUCT

4x12	11,8	13,2	0,76	1,14	0,41	5,58	272
4x14	9,91	11,0	0,76	0,76	0,26	8,58	197
4x16	8,89	10,0	0,76	0,76	0,26	14,1	137
4x18	8,26	9,27	0,76	0,76	0,26	22,4	111

### 5 CONDUCT

5x12	13,4	15,0	0,76	1,14	0,41	5,58	275
5x14	11,5	12,9	0,76	0,76	0,26	8,58	210
5x16	10,2	11,4	0,76	0,76	0,26	14,1	160
5x18	9,1	10,2	0,76	0,76	0,26	22,4	130



# POSEIDON® SUBWATER

## SJOOW POSEIDON® SUBWATER - 300V

Ordinary duty oil cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)



### MAIN CHARACTERISTICS

**STANDARD**  
UL 62/1581



**RATED VOLTAGE**  
300V



**CONDUCTOR OPERATING TEMP.**  
60-75-90-105 °C

### APPLICATIONS

**SJOOW POSEIDON® SUBWATER CABLE** is a junior hard service UL listed flexible cord suitable for outdoor usage in damp and wet location. It is thermoset oil-resistant and suitable for portable tools and equipment or for small engines. They can also be used in hazardous locations according to specification of Art 501.140 and 502.140.



**PUMPS  
INDUSTRY**



**INDUSTRIAL  
ENVIRONMENT**



**BUILDING**



**PROFESSIONAL  
LIGHTING**



**AGRICULTURE**

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

UL 62 Table 2

**INNER SHEATH**

Ethylene-Propylene rubber

**INNER SHEATH COLOR**

UL 62

**OUTER SHEATH**

Synthetic Elastomeric

**OUTER SHEATH COLOUR**

Black

**SEPARATOR**

Paper

**REINFORCEMENT**

2 X 18 AWG ONLY

**MARKING**

SJOOW WATER RESISTANT 60 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJOOW WATER RESISTANT 75 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJOOW WATER RESISTANT 90 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

SJOOW WATER RESISTANT 105 C PATELEC (UL) E66417 c(UL) FT2 300V  
POSEIDON® SUBWATER

### TECHNICAL FEATURES



**OIL RESISTANT**  
UL 62/1581



**FLAME RESISTANT**  
UL 62/1581



**WATER RESISTANT**



**COLD RESISTANT**  
-40°C - UL 62/1581



**HEAVY-DUTY**



**OZONE RESISTANT**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**

# POSEIDON® SUBWATER

## SJOOW POSEIDON® SUBWATER - 300V - UL 62/1581

Ordinary duty oil cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x12	10,3	11,6	0,76	1,14	0,41	5,58	166
2x14	8,51	9,53	0,76	0,76	0,26	8,88	115
2x16	7,75	8,64	0,76	0,76	0,26	14,1	86
2x18	7,11	8,00	0,76	0,76	0,26	22,4	71

### 3 CONDUCT

3x12	10,8	12,1	0,76	1,14	0,41	5,58	209
3x14	9,14	10,0	0,76	0,76	0,26	8,58	154
3x16	8,26	9,14	0,76	0,76	0,26	14,1	111
3x18	7,62	8,51	0,76	0,76	0,26	22,4	92

### 4 CONDUCT

4x12	11,8	13,2	0,76	1,14	0,41	5,58	272
4x14	9,91	11,0	0,76	0,76	0,26	8,58	197
4x16	8,89	10,0	0,76	0,76	0,26	14,1	137
4x18	8,26	9,27	0,76	0,76	0,26	22,4	111

### 5 CONDUCT

5x12	13,4	15,0	0,76	1,14	0,41	5,58	275
5x14	11,5	12,9	0,76	0,76	0,26	8,58	210
5x16	10,2	11,4	0,76	0,76	0,26	14,1	160
5x18	9,1	10,2	0,76	0,76	0,26	22,4	130



# POSEIDON® SUBWATER

## SOOW POSEIDON® SUBWATER - 600V

Extra hard usage flexible cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)



### MAIN CHARACTERISTICS

**STANDARD**  
UL 62/1581



**RATED VOLTAGE**  
600V



**CONDUCTOR OPERATING TEMP.**  
60-75-90-105 °C

### APPLICATIONS

**SOOW POSEIDON® SUBWATER CABLE** is a flexible stranded UL listed cord for extra hard usage for outdoor in damp and wet location and it is suitable for portable tools, equipment, small motors and associated machinery, appliances, industrial plants, steel mills, process facilities and construction sites equipment exposed to oils, solvents, flame moisture and abrasion. In general appliances requiring flexibility and durability. They can also be used in hazardous locations according to specification of Art 501.140 and 502.140.



**PUMPS  
INDUSTRY**



**INDUSTRIAL  
ENVIRONMENT**



**BUILDING**



**PROFESSIONAL  
LIGHTING**



**AGRICULTURE**

### CONSTRUCTION

**CONDUCTOR**

Red Copper Stranded

**FLEXIBILITY**

UL 62 Table 2

**INNER SHEATH**

Ethylene-Propylene rubber

**INNER SHEATH COLOR**

UL 62

**OUTER SHEATH**

Synthetic Elastomeric

**OUTER SHEATH COLOUR**

Black

**SEPARATOR**

Paper

**REINFORCEMENT**

-

**MARKING**

SOOW WATER RESISTANT 60 C PATELEC (UL) E66417 c(UL) FT2 600V  
POSEIDON® SUBWATER

SOOW WATER RESISTANT 75 C PATELEC (UL) E66417 c(UL) FT2 600V  
POSEIDON® SUBWATER

SOOW WATER RESISTANT 90 C PATELEC (UL) E66417 c(UL) FT2 600V  
POSEIDON® SUBWATER

SOOW WATER RESISTANT 105 C PATELEC (UL) E66417 c(UL) FT2 600V  
POSEIDON® SUBWATER

### TECHNICAL FEATURES



**OIL RESISTANT**  
UL 62/1581



**FLAME RESISTANT**  
UL 62/1581



**WATER RESISTANT**



**COLD RESISTANT**  
-40°C - UL 62/1581



**HEAVY-DUTY**



**OZONE RESISTANT**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**



**ATEX**  
EN 60079-14:2014 "Annex E"

# POSEIDON® SUBWATER

## SOOW POSEIDON® SUBWATER - 600V - UL 62/1581

Extra hard usage flexible cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)

section (mm <sup>2</sup> )	min cable diameter (mm)	max cable diameter (mm)	average thickness insulation (mm)	average thickness sheath (mm)	max wires diameter (mm)	electrical resistance (Ω/km)	approximate weight cable (kg/km)
-------------------------------	----------------------------	----------------------------	--------------------------------------	----------------------------------	----------------------------	---------------------------------	-------------------------------------

### 2 CONDUCT

2x12	14,4	15,0	0,76	1,14	0,41	5,58	308
2x14	12,6	14,0	0,76	0,76	0,26	8,88	238
2x16	9,3	10,4	0,76	0,76	0,26	14,1	131
2x18	8,6	9,8	0,76	0,76	0,26	22,4	115

### 3 CONDUCT

3x12	15,0	16,6	0,76	1,14	0,41	5,58	385
3x14	13,2	14,6	0,76	0,76	0,26	8,58	254
3x16	9,8	10,9	0,76	0,76	0,26	14,1	154
3x18	9,1	10,2	0,76	0,76	0,26	22,4	123

### 4 CONDUCT

4x12	16,3	18,0	0,76	1,14	0,41	5,58	431
4x14	14,2	15,7	0,76	0,76	0,26	8,58	331
4x16	10,4	11,7	0,76	0,76	0,26	14,1	185
4x18	9,8	10,9	0,76	0,76	0,26	22,4	169

### 5 CONDUCT

5x12	17,8	19,6	0,76	1,14	0,41	5,58	484
5x14	16,0	17,9	0,76	0,76	0,26	8,58	437
5x16	12,5	14,0	0,76	0,76	0,26	14,1	231
5x18	11,7	13,0	0,76	0,76	0,26	22,4	211



# POSEIDON® SUBWATER

## SOW POSEIDON® SUBWATER - 600V

Extra heavy duty cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)



### MAIN CHARACTERISTICS

**STANDARD**  
UL 62/1581



**RATED VOLTAGE**  
600V



**CONDUCTOR OPERATING TEMP.**  
60-75-90-105 °C

### APPLICATIONS

**SOW POSEIDON® SUBWATER CABLE** is a flexible water and oil resistant UL certified cable. Suitable for outdoor and indoor usage.



**PUMPS  
INDUSTRY**



**INDUSTRIAL  
ENVIRONMENT**



**BUILDING**



**PROFESSIONAL  
LIGHTING**



**AGRICULTURE**

### CONSTRUCTION

#### CONDUCTOR

Red Copper Stranded

#### FLEXIBILITY

UL 62 Table 2

#### INNER SHEATH

Ethylene-Propylene rubber

#### INNER SHEATH COLOR

UL 62

#### OUTER SHEATH

Synthetic Elastomeric

#### OUTER SHEATH COLOUR

Black

#### SEPARATOR

Paper

#### REINFORCEMENT

2 X 18 AWG ONLY

#### MARKING

SOW WATER RESISTANT 60 C PATELEC (UL) E66417 c(UL) FT2 600V  
POSEIDON® SUBWATER

SOW WATER RESISTANT 75 C PATELEC (UL) E66417 c(UL) FT2 600V  
POSEIDON® SUBWATER

SOW WATER RESISTANT 90 C PATELEC (UL) E66417 c(UL) FT2 600V  
POSEIDON® SUBWATER

SOW WATER RESISTANT 105 C PATELEC (UL) E66417 c(UL) FT2 600V  
POSEIDON® SUBWATER

### TECHNICAL FEATURES



**OIL RESISTANT**  
UL 62/1581



**FLAME RESISTANT**  
UL 62/1581



**WATER RESISTANT**



**COLD RESISTANT**  
-40°C - UL 62/1581



**HEAVY-DUTY**



**OZONE RESISTANT**



**UV RESISTANT**



**LEAD-FREE**



**SILICONE FREE**



**ATEX**  
EN 60079-14:2014 "Annex E"

# POSEIDON® SUBWATER

## SOW POSEIDON® SUBWATER - 600V - UL 62/1581

Extra heavy duty cable oil and water resistant  
(Temperature rating: 60-75-90-105 °C)

section	min cable diameter	max cable diameter	average thickness insulation	average thickness sheath	max wires diameter	electrical resistance	approximate weight cable
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)

### 2 CONDUCT

2x12	14,4	15,0	0,76	1,14	0,41	5,58	308
2x14	12,6	14,0	0,76	0,76	0,26	8,88	238
2x16	9,3	10,4	0,76	0,76	0,26	14,1	131
2x18	8,6	9,8	0,76	0,76	0,26	22,4	115

### 3 CONDUCT

3x12	15,0	16,6	0,76	1,14	0,41	5,58	385
3x14	13,2	14,6	0,76	0,76	0,26	8,58	254
3x16	9,8	10,9	0,76	0,76	0,26	14,1	154
3x18	9,1	10,2	0,76	0,76	0,26	22,4	123

### 4 CONDUCT

4x12	16,3	18,0	0,76	1,14	0,41	5,58	431
4x14	14,2	15,7	0,76	0,76	0,26	8,58	331
4x16	10,4	11,7	0,76	0,76	0,26	14,1	185
4x18	9,8	10,9	0,76	0,76	0,26	22,4	169

### 5 CONDUCT

5x12	17,8	19,6	0,76	1,14	0,41	5,58	484
5x14	16,0	17,9	0,76	0,76	0,26	8,58	437
5x16	12,5	14,0	0,76	0,76	0,26	14,1	231
5x18	11,7	13,0	0,76	0,76	0,26	22,4	211



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that our customers can rely on our products and services

