



Certificate number: 13070/E0 BV

File number: ACE 01/129/05

Product code: 2502H

This certificate is not valid when presented without the full attached schedule composed of 7 sections. Full certificate is to be requested to the manufacturer

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

PRYSMIAN CABLES SPAIN SA-PLANTA ABRERA

Abrera (Barcelona) - SPAIN

for the type of product

CABLES (MEDIUM/HIGH VOLTAGE)

Series EXZHELLENT-MAR DHDtC4Dt

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

IEC 60092-350 (2020), IEC 60092-354 (2020), IEC 60092-360 (2021)

IEC 60332-1-2 (2004), IEC 60332-3-22 (2018)

IEC 60754-1/2 (2013)

IEC 61034-2 (2013)

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 27 Jul 2031

For Bureau Veritas Marine & Offshore,

At BV BARCELONA, on 27 Jul 2026,

RHANDY RAFAEL PIÑERO GAUTIER

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Single and three-core power cables with extruded solid insulation, series **EXZHELLENT-MAR DHDtC4Dt**:
GGC Reference: 786xxxx

1.1 - Specifications:

Rated voltage:	3.6/6 to 18/30kV
Temperature class:	90°C
Flame retardant:	IEC 60332-1-2 & IEC 60332-3-22 (Cat.A)
Low smoke emission:	IEC 61034-2
Halogen Free:	IEC 60754-1/2

1.2 - Construction:

Conductors:	Plain, stranded copper, Class 2
Insulation:	EPR
Inner sheath:	SHF1
Conductor screen:	Copper tape
Armour:	Plain tinned copper wire braid
Outer sheath:	SHF1

1.3 - Product range:

Type	Number of cores	Cross sections	Rated voltage
EXZHELLENT-MAR DHDtC4Dt	1 or 3	10 to 150 mm ²	3.6/6 kV
		16 to 150 mm ²	6/10 kV
		25 to 150 mm ²	8.7/15 kV
		35 to 240 mm ²	12/20 kV
		10 to 300 mm ²	18/30 kV

2. DOCUMENTS AND DRAWINGS:

- General Cable Type Approval Dossier, ref. MA/CCP/IEN/10-049-03, dated 15/04/2003.
- General Cable Technical Data Sheet DHDtC4Dt 18/30 kV ref: CO/SGC/INF/CAL/10-002-11 dated 17/03/2011.

3. TEST REPORTS:

Cable 3.6/6 kV, 1x16 mm²:

- General Cable Test Report N° MA/CCP/IEN/10-058-03, dated 14/04/03.
- Laboratorio Fisico Central Test Report N° UP/LFC/IEN/10-333-01, dated 11/12/01.
- Laboratorio Quimico Central Test Report N° UP/LQC/IEN/24.61/02, dated 19/12/02, (cables 3.6/6 kV 1x16 mm², 12/20 kV 3x70 mm², 6/10 kV 3x120 mm²).
- General Cable Test Report N° MA/CCP/IEN/10-027-01, dated 4/12/01.

Cable 6/10 kV, 3x120 mm²:

- General Cable Test Report N° MA/CCP/IEN/10-060-03, dated 15/04/03.
- Laboratorio Fisico Central Test Report N° UP/LFC/IEN/10-334-01, dated 11/12/01.
- General Cable Test Report N° MA/CCP/IEN/10-028-01, dated 4/12/01.
- Laboratorio Fisico Central Test Report N° UP/LFC/IEN/10-340-01, dated 28/11/01.
- Laboratorio Fisico Central Test Report N° UP/LFC/IEN/10-347-01, dated 13/12/01.

Cable 12/20 kV, 3x70 mm²:

- General Cable Test Report N° MA/CCP/IEN/10-059-03, dated 14/04/03.
- Laboratorio Fisico Central Test Report N° UP/LFC/IEN/10-335-01, dated 11/12/01.
- General Cable Test Report N° MA/CCP/IEN/10-026-01, dated 4/12/01.

Cable 18/30 kV, 1 x 50 mm² and 1 x 300 mm².

- General Cable Test Report N°MA/SGC/IEN/CCP/010-027-11 dated 22/02/2011.

4. APPLICATION / LIMITATION:

- 4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships and IEC 60092 series.
- 4.2 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT** and **AUT-IMS**.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **PRYSMIAN CABLES SPAIN SA-PLANTA ABRERA** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **PRYSMIAN CABLES SPAIN SA-PLANTA ABRERA** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **PRYSMIAN CABLES SPAIN SA-PLANTA ABRERA** has declared to Bureau Veritas the following production sites:

PRYSMIAN CABLES SPAIN SA-PLANTA ABRERA
Poligon Can Sucarrats
Carrer del Metall,4
08630 Abrera (Barcelona)
SPAIN

PRYSMIAN CABLES SPAIN, S.A. -Planta SANTA PERPETUA DE MOGODA-
Carrer Can Vinyalets, 2
08130 Santa Perpetua de Mogoda
SPAIN

6. MARKING OF PRODUCT:

The cable shall be marked on the surface outer sheath, in a durable legible and visible manner, with the following information throughout the length of cable:

- Rated voltage
- Number of cores and cross-sectional area of the conductors
- Manufacturer's name or trademark
- Applicable standards to flame retardant and fire resistance (with the category if applicable)
- Code designation (optional)

7. OTHERS:

7.1 - It is **PRYSMIAN CABLES SPAIN SA-PLANTA ABRERA's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate N° 13070/D0 BV issued by the Society.

***** END OF CERTIFICATE *****