

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Power Cable

with type designation(s)
SP 2000 V

Issued to

Conductores Monterrey, S.A. de C.V. /Viakon
SAN NICOLAS DE LOS GARZA NUEVO LEÓN, Mexico

is found to comply with

Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det
Norske Veritas' Offshore Standards
IEEE 1580 (2010)

Application :

Switchboard wires.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Voltage class (kV) 2
Temp. class (°C) 95

This Certificate is valid until **2019-06-30**.

Issued at **Høvik** on **2015-07-27**

DNV GL local station: **Long Beach**

Approval Engineer: **Marta Alonso Pontes**

for **DNV GL**

Marit Laumann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-018970-2**
Certificate No: **TAE000006U**

Product description

Type: SP 2000 V
Construction:
Conductors: Tinned stranded copper flexible
Core insulation: Type P (XLPO)

Number of cores	Cross-section	Overall diameter Nominal
	AWG or MCM	mm
1	14	4,2
1	12	4,7
1	10	5,5
1	8	6,5
1	6	8,0
1	4	9,4
1	2	10,8
1	1	13,0
1	1/0	14,0
1	2/0	15,4

Number of cores	Cross-section	Overall diameter Nominal
	AWG or MCM	mm
1	3/0	17,6
1	4/0	21,0
1	262	22,3
1	313	24,0
1	373	25,7
1	444	27,6
1	535	30,5
1	646	32,7
1	777	35,3
1	1111	41,0

Application/Limitation

Type Approval documentation

Tests carried out

Type test according to IEEE 1580-10

Marking of product

Product Marking: CME WIRE AND CABLE SP – kcmil – 2 kV HD⁽¹⁾

(1) Optional for Heavy Duty insulations

Periodical assessment

The scope of the periodical is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at least every second year.

END OF CERTIFICATE