DNV·GL

Certificate No:
TAE0000074

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Power Cable

with type designation(s)
SPCPE, DPCPE, TPCPE, QPCPE & FPCPE 0,6/1 kV

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)
IEC 60332-3-22 (2009-02)

Application :

General power and lighting.

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

Voltage class (kV) **0,6/1**
Temp. class (°C) **95**

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

Issued at **Høvik** on **2015-07-27**

for **DNV GL**

DNV GL local station: **Long Beach**

Approval Engineer: **Marta Alonso Pontes**

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.

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Job Id: **262.1-018970-2**
Certificate No: **TAE0000074**

Product description

Type: SPCPE, DPCPE, TPCPE, QPCPE & FPCPE 0,6/1 kV
Construction:
Conductors: Tinned stranded copper flexible
Core insulation: Type P (XLPO)
Inner sheath: Type CPE

Number of cores	Cross-section	Overall diameter Nominal
	AWG or MCM	mm
SPCPE		
1	18	5,1
1	16	5,3
1	14	5,7
1	12	6,2
1	10	7,0
1	8	8,3
1	6	9,8
1	4	11,2
1	2	12,6
1	1	15,5
1	1/0	16,5
1	2/0	17,9
1	3/0	20,1
1	4/0	22,6
1	263	24,4
1	313	26,0
1	374	27,7
1	444	29,6
1	535	32,5
1	646	34,7
1	777	37,4
1	1111	46,1
DPCPE		
2	8	15,2
2	6	18,1
2	4	22,1
2	2	24,9
2	1	29,1
2	1/0	31,1
2	2/0	33,9
2	3/0	38,4
2	4/0	41,2
2	262	46,3
2	313	49,6
2	373	53,0
2	444	56,8
2	535	62,6
2	646	67,0
2	777	73,8
TPCPE		
3	8	16,1
3	6	19,3

Number of cores	Cross-section	Overall diameter Nominal
	AWG or MCM	mm
3	4	23,4
3	2	26,5
3	1	31,1
3	1/0	33,2
3	2/0	36,2
3	3/0	41,0
3	4/0	45,6
3	262	49,5
3	313	53,0
3	373	56,6
3	444	60,8
3	535	67,0
3	646	73,3
3	777	79,0
FPCPE		
4	8	17,7
4	6	22,2
4	4	25,8
4	2	29,2
4	1	34,3
4	1/0	36,7
4	2/0	40,1
4	3/0	47,0
4	4/0	50,4
4	262	54,7
4	313	58,7
4	373	62,7
4	444	67,4
4	535	75,8
4	646	81,3
4	777	87,6
QPCPE		
5	8	19,4
5	6	24,4
5	4	28,3
5	2	32,1
5	1	37,9
5	1/0	40,5
5	2/0	45,8
5	3/0	51,9
5	4/0	55,7
5	262	60,5

Number of cores	Cross-section	Overall diameter Nominal
	AWG or MCM	mm
5	313	65,0
5	373	71,0
5	444	76,2

Number of cores	Cross-section	Overall diameter Nominal
	AWG or MCM	mm
5	535	84,0
5	646	90,0
5	777	97,2

Application/Limitation

The requirements of SOLAS Amendments Chapter II-1, Part D, Reg. 45, 5.2 (provision to be taken to limit Fire Propagation along Bunches of Cables or Wires) are fulfilled without any additional measures.

Type Approval documentation

Tests carried out

Type test according to IEEE 1580-2010 and IEC 60332-22

Marking of product

Product marking: CME WIRE AND CABLE SPCPE or DPCPE or TPCPE or QPCPE or FPCPE– kcmil – 600/1000 V

Periodical assessment

The scope of the periodical assessment 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