



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-8649
This Certificate consists of 3 pages

This is to certify that the
Electric Cable, Power Current
with type designation(s)
AFUMEX NAU XTA 0,6/1 kV, AFUMEX NAU XTCUA 0,6/1 kV

Manufactured by
Prysmian Cables y Sistemas S.L.
Vilanova i la Geltrú BARCELONA, Spain

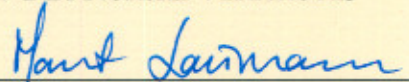
is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

IEC 60092-353 (2001-04)
IEC 60332-3-22 (2000-10)
IEC 60754-1 (1994-01)
IEC 60754-2 (1997-04)
IEC 61034-2 (2005-04)

Application
General power and lighting. Control. Halogen free. Low smoke.

Type	Voltage class (kV)	Temp. class (°C)
AFUMEX NAU XTA 0,6/1 kV	0,6/1	90
AFUMEX NAU XTCUA 0,6/1 kV	0,6/1	90


Place and date
Høvik, 2007-12-13
for DET NORSKE VERITAS AS


Marit Laumann
Head of Section



Local Office
DNV Barcelona

This Certificate is valid until
2010-12-31


Erik Hoffmann *Waber*
Surveyor

Notice: 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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: E-8649
File No.: 827.10

Product description

Type: AFUMEX NAU XTCUA & AFUMEX NAU XTA 0,6/1 kV
 Construction:
 Conductors: Plain or tinned, stranded copper. Class 2 or class 5
 Core insulation: HF XLPE
 Inner covering: Tape or Halogen free compound (for cables > 10 mm²)
 Metal covering: Plain or tinned copper wire braid (TCU) or Galv. steel wire braid (T)
 Outer sheath: SHF1

Number of cores x conductor cross-section mm ²	Overall diameter mm	Number of cores x conductor cross-section mm ²	Overall diameter mm	Number of cores x conductor cross-section mm ²	Overall diameter mm	Number of cores x conductor cross-section mm ²	Overall diameter mm
1 x 1	5,8	2 x 6	12,5	3 x 120	41,9	14 x 1,5	17,5
1 x 1,5	6,1	2 x 10	14,9	3 x 150	46,6	16 x 1,5	18,3
1 x 2,5	6,5	2 x 16	19,1	3 x 185	51,7	19 x 1,5	19,2
1 x 4	7,0	2 x 25	22,4			20 x 1,5	20,6
1 x 6	7,3	2 x 35	25,3	4 x 1	9,8	24 x 1,5	22,4
1 x 10	8,4	2 x 50	26,9	4 x 1,5	10,5	27 x 1,5	23,1
1 x 16	11,6	2 x 70	31,1	4 x 2,5	11,6	30 x 1,5	23,8
1 x 25	13,5	2 x 95	35,5	4 x 4	12,9	37 x 1,5	25,8
1 x 35	15,6	2 x 120	39,5	4 x 6	14,9		
1 x 50	16,1			4 x 10	17,4	5 x 2,5	12,6
1 x 70	18,1	3 x 1	9,2	4 x 16	21,7	7 x 2,5	13,7
1 x 95	20,1	3 x 1,5	9,8	4 x 25	26,5	10 x 2,5	17,9
1 x 120	21,7	3 x 2,5	10,7	4 x 35	29,6	12 x 2,5	18,5
1 x 150	23,8	3 x 4	12,0	4 x 50	31,5	14 x 2,5	19,3
1 x 185	26,2	3 x 6	13,2	4 x 70	37,3	16 x 2,5	20,4
1 x 240	28,9	3 x 10	15,8	4 x 95	42,0	19 x 2,5	21,5
1 x 300	31,6	3 x 16	20,1	4 x 120	46,5	20 x 2,5	22,7
		3 x 25	24,2			24 x 2,5	25,1
2 x 1	8,6	3 x 35	27,0	5 x 1,5	11,5	27 x 2,5	25,8
2 x 1,5	9,3	3 x 50	28,7	7 x 1,5	12,5	30 x 2,5	26,7
2 x 2,5	10,1	3 x 70	33,6	10 x 1,5	16,0	37 x 2,5	28,9
2 x 4	11,4	3 x 95	38,0	12 x 1,5	16,5		



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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

Data sheets
Test reports

Tests carried out

Type tests according to IEC 60092-353, IEC 60332-3-22, IEC 60754-1/2 and IEC 61034-1/2

Marking of product

Product marking: PRYSMIAN * - AFUMEX NAU XTCUA or AFUMEX NAU XTA - size - 0,6/1 kV

Certificate retention survey

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

The main elements of the survey 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.

Survey to be performed at least every second year.

END OF CERTIFICATE