



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **E-11420**

This is to certify that the
Electric Power Cable

with type designation(s)
TI 0,6/1 kV

Manufactured by
Draka
AMSTERDAM, Netherlands

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 (2009-02)
IEC 60332-3-24 (2009-02)
IEC 60754-1 (1994-01)
IEC 60754-2 (1997-04)
IEC 61034-2 (2005-04)

Application
General power and lighting, Control.
Flame retardant in bunch cat. A. Flame retardant. Halogen free. Low smoke.

Voltage class (kV) 0,6/1
Temp. class (°C) 90

Høvik, 2011-12-06
for **Det Norske Veritas AS**

This Certificate is valid until
2015-06-30

Marit Laumann
Head of Section

DNV local office:
Rotterdam

Ivar Bull
Surveyor

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.

Product description

Type: TI 0,6/1 kV
 Conductors: Plain, stranded copper
 Core insulation: XLPE
 Outer sheath: SHF1

Number of cores x conductor cross-section	Overall diameter
mm ²	mm
1 x 16	9,0±0,5
1 x 25	10,5±0,8
1 x 35	12,0±0,8
1 x 50	13,5±0,8
1 x 70	16,0±0,8
1 x 95	17,5±0,8
1 x 120	19,5±0,8
1 x 150	22,0±1,0
1 x 185	24,0±1,0
1 x 240	27,0±1,0
1 x 300	30,0±2,0
2 x 1,5	8,5±0,5
2 x 2,5	9,0±0,5
2 x 4	10,0±0,8
2 x 6	11,5±0,8
2 x 10	13,5±0,8
2 x 16	16,0±0,8
2 x 25	19,5±0,8
2 x 35	22,0±1,0
3 G 1,5	9,0±0,5
3 G 2,5	9,5±0,5
3 G 4	11,0±0,8
3 x 1,5	9,0±0,5

Number of cores x conductor cross-section	Overall diameter
mm ²	mm
3 x 2,5	9,5±0,5
3 x 4	11,0±0,8
3 x 6	12,5±0,8
3 x 10	14,5±0,8
3 x 16	17,0±0,8
3 x 25	21,0±1,0
3 x 35	23,5±1,0
3 x 50*	24,0±1,0
3 x 70*	27,0±1,0
3 x 95*	32,5±1,5
3 x 120*	34,5±1,5
3 x 150*	39,5±1,5
4 G 1,5	9,5±0,5
4 G 2,5	10,5±0,8
4 G 4	12,0±0,8
4 G 6	13,5±0,8
4 x 1,5	9,5±0,5
4 x 2,5	10,5±0,8
4 x 4	12,0±0,8
4 x 6	13,5±0,8
4 x 10	16,0±0,8
4 x 16	19,0±0,8
4 x 25	23,0±1,0
4 x 35	26,0±1,0

Number of cores x conductor cross-section	Overall diameter
mm ²	mm
4 x 50*	26,5±1,0
4 x 70*	32,0±1,5
4 x 95*	36,0±1,5
4 x 120*	39,0±1,5
5 G 1,5	10,5±0,8
5 x 1,5	10,5±0,8
5 x 2,5	11,5±0,8
7 x 1,5	11,5±0,8
7 x 2,5	12,5±0,8
10 x 1,5	14,5±0,8
12 x 1,5	15,0±0,8
12 x 2,5	17,0±0,8
14 x 1,5	16,0±0,8
16 x 1,5	17,0±0,8
19 x 1,5	18,0±0,8
24 x 1,5	21,0±1,0
27 x 1,5	21,5±1,0
37 x 1,5	24,5±1,0

G = with yellowgreen core * = Sector shaped

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 tested according to: IEC 60092-353, IEC 60332-3-22, IEC 60332-3-24, IEC 60754-1/2 and IEC 61034-1/2.

Marking of product

DRAKA 02 or 03 - TI - size - 0,6/1 kV – IEC 60332-3-22/24.

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