



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-9688
This Certificate consists of 3 pages

This is to certify that the
Electric Cable, Power Current
with type designation(s)
HULTO-EMC 0,6/1 kV

Manufactured by
Draka
AMSTERDAM, Netherlands

is found to comply with
Det Norske Veritas' Rules for Classification of Ships and Mobile Offshore Units
IEC 60092-353
IEC 60332-3-22
IEC 60754-1/2
IEC 61034-1/2

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

Type	HULTO-EMC 0,6/1 kV
Voltage class (kV)	0,6/1
Temp. class (°C)	90

Place and date
Høvik, 2009-09-28
for DET NORSKE VERITAS AS

Marit Laumann
Marit Laumann
Head of Section



Local Office
DNV Rotterdam (Barendrecht)

This Certificate is valid until
2012-12-31

Ivar Bull
Ivar Bull
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-9688
File No.: 827.10
Job Id.: 262.1-006680-1

Product description

Type HULTO EMC 0,6/1 kV

Construction:

Conductor: Plain stranded copper
Core insulation: XLPE
Inner sheath: SHF1
Metal covering: Copper foil and copper wire braid
Outer sheath: SHF1

Number of cores x conductor cross section mm ²	Overall diameter Nominal mm
3 x 1,5	14,0
3 x 2,5	15,0
3 x 4	16,1
3 x 6	17,5
3 x 10	19,7

Number of cores x conductor cross section mm ²	Overall diameter Nominal mm
3 x 16	22,2
3 x 25	26,3
3 x 35	29,2
3 x 50	34,4
3 x 70	39,4

Number of cores x conductor cross section mm ²	Overall diameter Nominal mm
3 x 95	44,5
3 x 120	49,3
3 x 150	54,1

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 sheet: HULTO EMC dated 2004-04-02
Test report: Draka Type test 2003.01.124182 dated 2003-03-14

Tests carried out

Type tests according to IEC 60092-350, IEC 60332-3-22 and IEC 60096-0-1

Marking of product

Product marking: DRAKA 02 - HULTO EMC - size - 0,6/1 kV



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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