



Certificate no.:
TAE000057M

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Electric Power Cable

with type designation(s)

Earth 0,6/1 kV switchboard wire Type E

issued to

CCI Cable Service S.r.l.

Ferentino, FR, Italy

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Switchboard wires.

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Rated voltage (kV) 0,6/1

Temp. class (°C) 90

Issued at **Høvik** on **2026-02-13**

This Certificate is valid until **2031-02-12**.

for **DNV**

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Ivar Bull**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Earth 0,6/1 kV switchboard wire Type E

Construction:

Conductors: Plain or tinned annealed stranded copper class 2 or class 5.

Sheath material: SHF1 or SHF2

No of cores:	Cross sectional area [mm ²]
1	1,5 - 300

Application/Limitation

Only to be used as yellow/green earth conductor.

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

	Release	General description	Limitation
DNV-CP-0399	2021-08	Class Programme Electric cables	
IEC 60092-350	2020-01	General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications	
IEC 60092-360	2021-01	Electrical installations in ships - Part 360: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables.	Including: Ozone resistance
IEC 60092-353	2016-09	Electrical installations in ships - Part 353: Power cables for rated voltages 1 kV and 3 kV	Only to be used as yellow/green earth conductor
IEC 60332-3-22	2018-07	Tests on electric and optical fibre cables under fire conditions – Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category A	Bunch test Category A
IEC 60754-1	2019-11	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	Low Halogen: <0,5% Halogen
IEC 60754-2	2019-11	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity	Halogen free: pH > 4,3 Conductivity < 10µS/mm
IEC 61034-1/2	2019-11	Measurement of smoke density of cables burning under defined conditions – Test apparatus, procedure and requirements	Low smoke Light transmittance ≥60%
UL 1581	2023-11	UV test. Reference Standard for Electrical Wires, Cables, and Flexible Cords. Paragraph 1200.1: Sunlight resistance Carbon arc and Xenon arc test.	720h. Max tensile strength and elongation@break decay 20%.

Marking of product

CCI TYPE E 0,6/1kV sect mm² IEC 60092-353 IEC 60332-3-22 Cat A meter marking Year QA No.

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 Routine tests (RT) and selected type tests (ref. to applicable class programs) checked (if not available these tests shall 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.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

Manufactured by:

CCI Cable Service S.r.l.
Ferentino, FR
ITALY

END OF CERTIFICATE