



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **E-12935**

This is to certify that the
Fire Protective Systems for Cables

with type designation(s)
CP 679 A

Issued to
Hilti Corporation
Schaan, Liechtenstein

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
Det Norske Veritas' interpretation of SOLAS 1974 Convention as amended
IEC 60332-3 cat. A

Application
Approved for use as an ablative fire protective coating on indoor and outdoor cables.

This Certificate is valid until **2017-12-31**.

Issued at **Høvik** on **2013-12-10**

DNV local station: **Essen CMC Southern Germany**

Approval Engineer: **Ivar Bull**



for **Det Norske Veritas AS**
Digitally Signed By: Laumann, Marit

Location: DNV Høvik, Norway

Signing Date: 2013-12-10

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.

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

CP 679 A"

Ablative fire protective coating for cables.

Average thickness of coating 1.0mm.

Application/Limitation

The cable or the bunched cables to be coated on all sides. In enclosed and semi-enclosed spaces cable runs to be coated at least 1 metre in every 14 metres for horizontal runs and to entire length of vertical runs.

This approval is only valid for coating applied by Hilti Corp. or according to Hilti Corp. application instructions.

Type Approval documentation

Certification in accordance with Certification Note No. 1.2, Type Approval, December 1996.

Test report No. U97 087 dated 15 January 1998 from iBMB, Braunschweig, Germany.

Tested according to Category A of IEC publication 332-3, 1982.

Retention survey report dated 06.06.2013.

Marking of product

The product or packing is to be marked with name of manufacturer and type designation.

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 of 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 every second year.