

# Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 12 273 - 10 HH

Company Corning Cable Systems GmbH & Co. KG  
Leipziger Str. 121  
10117 Berlin, GERMANY

Product Description Halogen free indoor / outdoor fibre optic cable with FRNC jacket

Type A-VQ(BN)H 2 - 24... TB3

Environmental Category None

Technical Data / Range of Application  
Fibres: Tight buffered fibres 0,9 mm: E9/125; G50/125; G62,5/125  
Cable construction: -Dielectric strength elements with swelling elements  
-Strength elements (aramid yarn), inner jacket FRNC only for 2 layers standard design  
-Swelling tape  
-Laminated glass yarn  
-Ripcord  
-Outer jacket FRNC

Technical data in detail according data sheet:

A-VQ(BN)H / November 2009

Test Standard ITU-T G651/G652, IEC60794-1-2:2003, 60793-1-40:2001, 60332-1-2:2004, 61034-2:2005, 60754-1/2:1994/97

Documents Test report : Corning, dated 2010-10-14; MPA No. 2008-B-3261 / 01 / 05  
Corning, dated 15.04.2011

Remarks Measures for limitation of the propagation of fire along cable bundles are required (fire stops)

Valid until 2016-05-23

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Hamburg, 2011-05-23

Germanischer Lloyd

Christoph Kutzner

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## Mechanical characteristics

Min. bending radius: acc. Data sheet

Max. tensile strength: 1500 N Fibre count 2 to 4  
2000 N Fibre count 6 to 8  
2700 N Fibre count 12 to 24

Max. crush resistance: 2000 N/10cm

Temperature range: Transport and storage -40°C to +70°C  
Laying + installation -5°C to +50°C  
Operation -20°C to +60°C

Place of production: Corning Cable Systems Sp. zo.o Polska in Strykow and Lublin  
Corning Kablo ve Sistemleri Ltd. Sti. (CCS Turkey) in Gebze-Kocaeli

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**Germanischer Lloyd**

*i.A. Christoph Kutzner*  
Christoph Kutzner

*i.A. Carsten Hunsalz*  
Carsten Hunsalz

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".