

TYPE APPROVAL CERTIFICATE

DNV·GL

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

Certificate No. **99 412 - 97 HH**

Company **Nexans Deutschland GmbH**
Bonnenbroicher Str. 2 - 14
41238 Mönchengladbach, GERMANY

Product Description **Halogen free medium voltage shipboard power cable with EPR insulation and outer sheath of crosslinked halogen free compound SHF2**

Type **MMGSHX; MMGCHX; MMGSHXCHX**
MMGSEHX; MMGSEHXCHX

Environmental Category **None**

Technical Data / Range of Application
Rated voltage: 6/10 (12) kV
Max. operating conductor temperature: 90° C
Conductor: Plain or tinned copper, class 2 or class 5
Core insulation: Inner semi-conducting layer
EPR
Outer semi-conducting layer
Screen: Plain or tinned copper wires as a braid or as concentric wires
Inner sheath: SHF2 for HXCHX types
Armouring: Plain or tinned copper braid for HXCHX types
Outer sheath: SHF2
Number of cores: Cross-sectional area:
1 25 mm² to 300 mm²
3 25 mm² to 300 mm²

Test Standard **IEC 60092-350:2014; 60092-360:2014; 60092-354:2014; 60228:2004;**
IEC 60332-1:2004; 60332-3-22:2009; 60754-1/-2:2011; 60684-2:2011;
IEC 61034-2:2005

Documents **Test report : Alcatel KABEL, SRQ, dated 21.05.1997; and dated of 22.07.2003**
TMP-SRV-2015-77-05, -06, -07, -08 dated 03.11.2015
Emission reports 1071, 1072 dated 10.09.2015
Fire test report No.15091602-1, No.15091603-1, No.15091604-1,
No.15091605-1, No.15091605-2, dated 06.10.2015
Specification: MG-S-020, MG-S-023, dated 03.11.2015;
MG-S-030, dated 18.09.2015

Remarks **This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007 and the GL Type Approval Procedure for Shipboard Cables.**

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

Valid until **2020-12-01**

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File No. **I.N.01**

Hamburg, 2015-12-01

Type Approval Symbol



(Signature)
Arne Schaarmann

(Signature)
Carsten Hunsalz

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