



**TYPE APPROVAL CERTIFICATE**  
**No. ELE032514XG/001**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

|                             |   |
|-----------------------------|---|
| <i>Description</i>          | <b>ELECTRIC CABLES</b>  |
| <i>Type</i>                 | <b>TCC (1)</b>  |
| <i>Applicant</i>            | <b>NEXANS DEUTSCHLAND GMBH<br/>BONNENBROICHER STR. 2/14<br/>41238 MONCHENGLADBACH<br/>GERMANY</b> |
| <i>Manufacturer</i>         | <b>NEXANS DEUTSCHLAND GMBH<br/>BONNENBROICHER STR. 2/14<br/>41238 MONCHENGLADBACH<br/>GERMANY</b> |
| <i>Place of manufacture</i> | <b>GERMANY</b>  |
| <i>Reference standards</i>  | <b>IEC 60092-350; IEC 60092-376.</b>  |

Issued in **HAMBURG** on **January 14, 2015**. This Certificate is valid until **January 13, 2020**

*Signature*

RINA Services S.p.A.  
**Giuseppe Russo**



This certificate consists of this page and 1 enclosure

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Enclosure - Page 1 of 1  
TCX (I)

**Materials/Components**

Shipboard instrumentation and communication cables, flame retardant type, with small emission of smoke and toxic and corrosive gases.

Type: TCX (I)

Rated voltage: 150/250V

Marking: NEXANS - TCX(I) - 150/250V - n x s mm<sup>2</sup> - 90°C - IEC 60332-3-22 - year - metric marking

**Construction:**

conductor: tinned stranded copper or bare copper class 2 according to IEC 60228  
insulation: XLPE according to IEC 60092-360  
individual screen on each pairs or triples: AL/polyester tape with a drain wire  
armour: tinned or bare copper wires braid  
outer sheath: SHF1 or SHF2 according to IEC 60092-360

In accordance to IEC 60228 class 2; IEC 60092-350; IEC 60092-360; IEC 60092-376;  
IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2; IEC 60332-1; IEC 60332-3-22 cat.A.

Technical Specification: MG-S-103\_TCX(I)\_V1.1.pdf dated 20.11.2014

This certificate annuls and replaces the previous one n° ELE337311CS/001.

HAMBURG January 13, 2015



*Signature*