



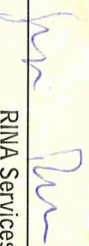
TYPE APPROVAL CERTIFICATE
No. ELE032514XG/006

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>	ELECTRIC CABLES
<i>Type</i>	TCX (D) 331
<i>Applicant</i>	NEXANS DEUTSCHLAND GMBH BONNENBROICHER STR. 2/14 41238 MONCHENGLADBACH GERMANY
<i>Manufacturer</i>	NEXANS DEUTSCHLAND GMBH
<i>Place of manufacture</i>	BONNENBROICHER STR. 2/14 41238 MONCHENGLADBACH GERMANY
<i>Reference standards</i>	IEC 60092-350; IEC 60092-376; IEC 60331-21.

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




RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE
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Enclosure - Page 1 of 1
TCX (I) 331

Materials/Components

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

Type: TCX (I)331

Rated voltage: 150/250V

Marking: NEXANS - TCX(I) 331 - 150/250V - n x s mm2 - 90°C - IEC 60332-3-22 - year - metric marking

Construction:

conductor: tinned stranded copper or bare copper class 2 according to IEC 60228
mica tape on the conductor
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 60331-21; IEC 60332-1; IEC 60332-3-22 cat.A.

Technical Specification: MG-S-107_TCX(I)331_V1.1.pdf dated 06.11.2014

This certificate annuls and replaces the previous one n° ELE337311CS/006.

HAMBURG January 13, 2015



Signature