



RUSSIAN MARITIME REGISTER OF SHIPPING

CIRCULAR LETTER

No. 315-22-1705c

dated 17.02.2022

Re:

amendments to the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships, 2022, ND No. 2-020101-156-E

Item(s) of supervision:

Electrical equipment

Entry-into-force date:

01.04.2022

~~Cancels / amends / adds Circular Letter No.~~

~~dated~~

Number of pages: 1+3

Appendices:

Appendix 1: information on amendments introduced by the Circular Letter

Appendix 2: text of amendments to Section 10 of Part IV "Technical Supervision during Manufacture of Products"

Director General

Konstantin G. Palnikov

Text of CL:

We hereby inform that in connection with coming into force of IACS recommendation № 73 (Corr.1 Oct 2021) and the experience of technical supervision the Rules for Technical Supervision during Construction of Ships and Manufacture of Materials and Products for Ships shall be amended as specified in the Appendices to the Circular Letter.

It is necessary to do the following:

1. Bring the content of the Circular Letter to the notice of the RS surveyors, interested organizations and persons in the area of the RS Branch Offices' activity.
 2. Apply the provisions of the Circular Letter during review and approval of the technical documentation on products as well as when performing technical supervision during manufacture of products requested for manufacture on or after 01.04.2022.
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List of the amended and/or introduced paras/chapters/sections:

Part IV: Table 10.7.14.1 and para 10.7.17.3.5

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**Information on amendments introduced by the Circular Letter
(for inclusion in the Revision History to the RS Publication)**

Nos.	Amended paras/chapters/sections	Information on amendments	Number and date of the Circular Letter	Entry-into-force date
1	Table 10.7.14.1	Requirement for cables has been introduced	315-22-1705c of 17.02.2022	01.04.2022
2	Para 10.7.17.3.5	Requirements for plastic cable ladders protective trays/protective casings to be tested have been specified to be tested considering IACS Recommendation №73 (Corr.1 Oct 2021)	315-22-1705c of 17.02.2022	01.04.2022

**RULES FOR TECHNICAL SUPERVISION DURING CONSTRUCTION OF SHIPS
AND MANUFACTURE OF MATERIALS AND PRODUCTS FOR SHIPS, 2022,**

ND No. 2-020101-156-E

PART IV. TECHNICAL SUPERVISION DURING MANUFACTURE OF PRODUCTS

10 ELECTRICAL EQUIPMENT

1 **Table 10.7.14.1** is replaced by the following:

"Table 10.7.14.1

Cable products	Inspection and checks	Measurement of insulation resistance	Test of insulation strength	Tests for compliance with operational conditions onboard a ship	Test for resistance to sea water ¹	Test for resistance to oil products ^{1, 2} and to drill mud	Test for durability under repeated reverse bends by roller systems	Test for bend durability	Test for axial twisting durability	Test for durability to bending with axial twisting	Test for tension durability	Test for crushing durability	Test for flame resistance (flame retardance)	Special types of fire tests ³
Cables for connecting stationary electrical equipment	+	+	+	+	+	+	-	+	-	-	+	-	+	+
Cables for connecting mobile electrical equipment (including portable)	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Installation wires	+	+	+	+	+	+	-	-	-	+ ⁴	-	-	+	+
Fibre-optic cable	+	-	-	(+)	(+)	(+)	-	+	+	+	+	+	+	+
Subsea cable	+	+	+	(+)	+ ⁵	(+)	-	+	+	+	+	+	-	-
Cryocable	+ ⁶	+ ⁶	+	-	-	-	-	+	-	-	-	-	-	-

Symbols:
 "+" = test is needed;
 "(+)" = test performance depends on the particular product;
 "-" = test is not needed.

¹ To testing are subject the products specially designed for operation on open decks of ships. The test is performed on both insulation and sheathing specimens (refer to 10.7.14.1), and cable specimens.
² To testing are subject the products both specially designed for operation in engine rooms, and not having such restriction. The test is carried out only on insulation and sheathing specimens (refer to 10.7.14.12).
³ Tests for the fire resistance, halogen content, smoke emission etc. are referred to special fire tests in relation to purpose of cables.
⁴ Related to particularly flexible wires.
⁵ When testing subsea cables for seawater resistance it is necessary to consider the value of hydrostatic pressure corresponding to the ultimate depth of use of cable.
⁶ Tests shall be carried out in compliance with national, international and manufacturers' standards.

2 **Para 10.7.17.3.5** is replaced by the following text:

".5 resistivity test.

Cable trays/protective casings passing through a hazardous area shall be electrically conductive.

The volume resistivity level of the cable trays/protective casings and fittings shall be below 10^5 ohm·meter [Ωm] and the surface resistivity shall be below 10^6 ohm [Ω].

The cable tray/protective casings shall be tested in accordance with IEC 62631-3-1:2016 and IEC 62631-3-2:2015.

Note 2. The resistance to earth from any point in these appliances shall not exceed 10^6 ohm [Ω]."