

# TYPE APPROVAL CERTIFICATE

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.	<b>45 285 - 16 HH</b>
Company	<b>bedea Berkenhoff &amp; Drebes GmbH</b> <b>Herborner Str. 100</b> <b>35614 Asslar, Germany</b>
Product Description	<b>Radio frequency coaxial cables</b>
Type	<b>HFX 50 2776 FRNC</b>
Environmental Category	<b>None</b>
Technical Data / Range of Application	<b>Temperature range: -35 to 70 °C</b> <b>Inner conductor: Bare copper</b> <b>Insulation: Polyethylene CELL-PE</b> <b>Braid: Tinned copper + Aluminum foil</b> <b>Sheath: SHF 1</b> <b>Electrical data and characteristics: According to the manufacturer's data sheet</b>
Test Standard	<b>IEC 60096-0-1:2012, 61196-9-1:2015, 61196-9:2014, 60092-360:2014, IEC 60332-1-2:2004;</b>
Documents	<b>Test report : BEDEA dated 2016-04-06 witnessed by DNV GL</b> <b>BEDEA dated 1/2014</b> <b>Specification: FE-No.: 960380</b>
Remarks	<b>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.</b> <b>Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.</b>

Valid until **2021-04-26**

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

**Hamburg, 2016-04-27**

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Electrical Characteristics	Capacitance pF/m	Impedance Ω	Screen attenuation dB						
HFX 50 2776 FRNC	80 +-2,5	50 +- 2	>75						
<b>Attenuation max. dB/100m</b>									
Frequency MHz	5	50	100	200	400	900	1500	2000	2400
HFX 50 2776 FRNC	x	x	<4,5	<6,6	<9,7	<15,6	<21,3	<25,5	<28,7

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