Nr.	Material or Product	Type of activity	Internal reference number
		Electrical test	
1	Cables of rated voltage up to and including 450/750 V and having thermoplastic insulation Cables of rated voltages up to and including 450/750 V and having crosslinked insulation Power cables up to 1 kV Cables for control and signalisation Communication and data transmission cables Ship board cables	Determining resistance of conductors by means of using DC four-wire connection measurement	Procedure: I 5.04/101 conform IEC 60227-2, p.2.1, EN 50395, p.5,
2		Voltage test with AC power source	Procedure: I 5.04/102 conform IEC 60227-2, p. 2.2; p.2.3, EN 50395, p. p.6,7
3		Voltage test with DC power source	Procedure: I 5.04/102 conform EN 50395, p.9
4		Determining insulation resistance by means of two-wire ungrounded connection measurement	Procedure: I 5.04/104 conform IEC 60227-2, p 2.4, EN 50395, p 8
5		Determining capacitance at 1 kHz with AC bridge	Procedure: I 5.04/105 conform IEC 96-1

		Dimensional Test	
6	Cables of rated voltage up to and including 450/750 V and having thermoplastic insulation Cables of rated voltages up to and including 450/750 V and having crosslinked insulation Power cables up to 1 kV Cables for control and signalisation Communication and data transmission cables Ship board cables	Measurement of thickness by means of microscope	Procedure: I 5.04/201 conform EN 60811-1-1, p. 8.1; p. 8.2 BDS EN 60811-1-1,p. 8.1; p. 8.2
7		Measurement of diameter with micrometer or calliper-gauge	Procedure: I 5.04/201 conform EN 608811-1-1 , p. 8.3 BDS EN 60811-1-1, p. 8.3
8	Cables of rated voltage up to and including 450/750 V and having thermoplastic insulation Cables of rated voltages up to and including 450/750 V and having crosslinked insulation Cables for control and signalisation Communication and data transmission cables Ship board cables	Determining filling factor by measurement of geometrical parameters with micrometer and calliper –gauge and weight analysis	Procedure: I 5.04/202 conform IEC 96-1; IEC 92-350, p 10.6

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		Dynamical and climatical tests	
9	Cables of rated voltage up to and including 450/750 V and having thermoplastic insulation Cables of rated voltages up to and including 450/750 V and having crosslinked insulation Power cables up to 1 kV Cables for control and signalisation Communication and data transmission cables Ship board cables	Determination of mechanical properties of insulation and sheath by means of measurement tensile strength and elongation at break, before and after ageing with testing machine	Procedure:I 5.04/301;I 5.04/302 conform EN 60811-1-1, EN 608811-1-2, p 8.1, BDS EN 60811-1-1, BDS EN 60811-1-2,p 8.1
10		Oil immersion test by means of determining the tensile strength and elongation at break before and after staying in oil bath	Procedure: I 5.04/501 conform EN 60811-2-1, p. 10, BDS 60811-2-1, p. 10
11		Determination of loss of mass of insulation and sheath after thermal ageing in air oven at (70 to 120) °C	Procedure: I 5.04/303 conform EN 60811-3-2, p.8.1; p.8.2 BDS EN 60811-3-2, p.8.1; p.8.2
12		Pressure test at high temperature for insulation and sheath by means of determining the depth of indentation	Procedure: I 5.04/304 conform EN 60811-3-1, p. 8.1; p. 8.2 BDS EN 60811-3-1, p. 8.1; p. 8.2
13		Heath shock test in air oven (150°C)	Procedure: I 5.04/305 conform EN 60811-3-1, p. 9.1; p. 9.2 , BDS EN 60811-3-1, p. 9.1; p. 9.2
14		Bending test at low temperature (-30 to –15) °C	Procedure: I 5.04/306 conform EN 60811-1-4, p. 8.1; p. 8.2, BDS EN 60811-1-4, p. 8.1; p. 8.2
15		Impact test at low temperature (-30 to –15) °C	Procedure: I 5.04/306 conform EN 60811-1-4, p. 8.5, BDS EN 60811-1-4, p. 8.5
16		Thermal stability by means of measurement pH	Procedure: I 5.04/307 conform EN 60811-3-2, p. 9 BDS EN 60811-3-2, p. 9

17	Cables of rated voltage up to and including 450/750 V and having thermoplastic insulation Cables of rated voltages up to and including 450/750 V and having crosslinked insulation Cables for control and signalisation Communication and data transmission cables Ship board cables	Mechanical strength by means voltage test (1500 to 2500) V	Procedure: I 5.04/308 conform IEC 60227-2, p.3.1 EN 50396, p.6.2
		Test under fire condition	
18	Cables of rated voltage up to and including 450/750 V and having thermoplastic insulation Cables of rated voltages up to and including 450/750 V and having crosslinked insulation Power cables up to 1 kV Cables for control and signalisation Communication and data transmission cables Ship board cables	Flame retardance test by means of determining the distance between the lower edge of the top support and the onset of charring	Procedure: I 5.04/401;I 5.04/402 conform IEC 60332-1-1 BDS EN 60332-1-1 IEC 60332-1-2 BDS EN 60332-1-2 IEC 60332-2-1 BDS EN 60332-2-1 IEC 60332-2-2 BDS EN 60332-2-2

19		Test on bunched wires or cables by means of length of charring part	Procedure: I 5.04/403 conform IEC 60332-3-10 BDS EN 60332-3-10 IEC 60332-3-21 BDS EN 60332-3-21 IEC 60332-3-22 BDS EN 60332-3-22 IEC 60332-3-23 BDS EN 60332-3-23 IEC 60332-3-24 BDS EN 60332-3-24 IEC 60332-3-25 BDS EN 60332-3-25
20	Cables of rated voltage up to and including 450/750 V and having thermoplastic insulation Cables of rated voltages up to and including 450/750 V and having crosslinked insulation Power cables up to 1 kV Cables for control and signalisation Communication and data transmission cables Ship board cables	Test on cables burning under defined conditions by means of measurement of smoke density	Procedure: I 5.04/404 conform , IEC 61034-2, BDS EN 61034-2