

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Electric Power Cable**with type designation(s)
BOSTRIG-125 Type P,PCPE-

Issued to

Prysmian Cables and Systems USA, LLC
Highland Heights, KY, USA

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Instrumentation and communication. CPE outer sheath.****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Rated voltage (kV) 0,6/1****Temp. class (°C) 95**Issued at **Høvik** on **2020-11-17**This Certificate is valid until **2024-12-31**.for **DNV GL**DNV GL local station: **New York**Approval Engineer: **Ivar Bull****Marta Alonso Pontes**
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-007168-5**
Certificate No: **TAE00003D5**

Name and place of manufacturer

Prysmian Power Cables and Systems, Taunton, MA 02780, United States.

Product description

Construction:

Conductor: Tinned stranded copper

Insulation: XLPO (Type P)

Shield: Individual shield (I/S) and/or overall shield (OS) Aluminium
mylar with a drain wire Tinned copper wire braid

Filler: Flame Retardant, non hygroscopic (as needed)

Outer sheath: Thermoset type CPE

Number of cores x conductor cross-section		Type designation
mm2	AWG	
1 x 2 x 0,61	20	TP(OS)20PCPE-1
2 x 2 x 0,61	20	TP(I/S)20PCPE-2
3 x 2 x 0,61	20	TP(I/S)20PCPE-3
4 x 2 x 0,61	20	TP(I/S)20PCPE-4
5 x 2 x 0,61	20	TP(I/S)20PCPE-5
6 x 2 x 0,61	20	TP(I/S)20PCPE-6
7 x 2 x 0,61	20	TP(I/S)20PCPE-7
8 x 2 x 0,61	20	TP(I/S)20PCPE-8
10 x 2 x 0,61	20	TP(I/S)20PCPE-10
12 x 2 x 0,61	20	TP(I/S)20PCPE-12
16 x 2 x 0,61	20	TP(I/S)20PCPE-16
19 x 2 x 0,61	20	TP(I/S)20PCPE-19
20 x 2 x 0,61	20	TP(I/S)20PCPE-20
24 x 2 x 0,61	20	TP(I/S)20PCPE-24
25 x 2 x 0,61	20	TP(I/S)20PCPE-25
1 x 2 x 0,96	18	TP(OS)18PCPE-1
2 x 2 x 0,96	18	TP(I/S)18PCPE-2
3 x 2 x 0,96	18	TP(I/S)18PCPE-3
4 x 2 x 0,96	18	TP(I/S)18PCPE-4
5 x 2 x 0,96	18	TP(I/S)18PCPE-5
6 x 2 x 0,96	18	TP(I/S)18PCPE-6
7 x 2 x 0,96	18	TP(I/S)18PCPE-7
8 x 2 x 0,96	18	TP(I/S)18PCPE-8
10 x 2 x 0,96	18	TP(I/S)18PCPE-10
12 x 2 x 0,96	18	TP(I/S)18PCPE-12
14 x 2 x 0,96	18	TP(I/S)18PCPE-14
16 x 2 x 0,96	18	TP(I/S)18PCPE-16
20 x 2 x 0,96	18	TP(I/S)18PCPE-20
24 x 2 x 0,96	18	TP(I/S)18PCPE-24
1 x 2 x 1,23	16	TP(OS)16PCPE-1
2 x 2 x 1,23	16	TP(I/S)16PCPE-2
3 x 2 x 1,23	16	TP(I/S)16PCPE-3
4 x 2 x 1,23	16	TP(I/S)16PCPE-4
5 x 2 x 1,23	16	TP(I/S)16PCPE-5
6 x 2 x 1,23	16	TP(I/S)16PCPE-6
7 x 2 x 1,23	16	TP(I/S)16PCPE-7
8 x 2 x 1,23	16	TP(I/S)16PCPE-8
10 x 2 x 1,23	16	TP(I/S)16PCPE-10
12 x 2 x 1,23	16	TP(I/S)16PCPE-12
15 x 2 x 1,23	16	TP(I/S)16PCPE-15
16 x 2 x 1,23	16	TP(I/S)16PCPE-16
20 x 2 x 1,23	16	TP(I/S)16PCPE-20

Number of cores x conductor cross-section		Type designation
mm2	AWG	
22 x 2 x 1,23	16	TP(I/S)16PCPE-22
24 x 2 x 1,23	16	TP(I/S)16PCPE-24
1 x 2 x 1,94	14	TP(OS)14PCPE-1
2 x 2 x 1,94	14	TP(I/S)14PCPE-2
3 x 2 x 1,94	14	TP(I/S)14PCPE-3
4 x 2 x 1,94	14	TP(I/S)14PCPE-4
5 x 2 x 1,94	14	TP(I/S)14PCPE-5
6 x 2 x 1,94	14	TP(I/S)14PCPE-6
7 x 2 x 1,94	14	TP(I/S)14PCPE-7
8 x 2 x 1,94	14	TP(I/S)14PCPE-8
10 x 2 x 1,94	14	TP(I/S)14PCPE-10
12 x 2 x 1,94	14	TP(I/S)14PCPE-12
16 x 2 x 1,94	14	TP(I/S)14PCPE-16
20 x 2 x 1,94	14	TP(I/S)14PCPE-20
24 x 2 x 1,94	14	TP(I/S)14PCPE-24
1 x 3 x 0,96	18	TT(OS)18PCPE-1
2 x 3 x 0,96	18	TT(I/S)18PCPE-2
3 x 3 x 0,96	18	TT(I/S)18PCPE-3
4 x 3 x 0,96	18	TT(I/S)18PCPE-4
5 x 3 x 0,96	18	TT(I/S)18PCPE-5
6 x 3 x 0,96	18	TT(I/S)18PCPE-6
7 x 3 x 0,96	18	TT(I/S)18PCPE-7
8 x 3 x 0,96	18	TT(I/S)18PCPE-8
12 x 3 x 0,96	18	TT(I/S)18PCPE-12
16 x 3 x 0,96	18	TT(I/S)18PCPE-16
1 x 3 x 1,23	16	TT(OS)16PCPE-1
2 x 3 x 1,23	16	TT(I/S)16PCPE-2
3 x 3 x 1,23	16	TT(I/S)16PCPE-3
4 x 3 x 1,23	16	TT(I/S)16PCPE-4
5 x 3 x 1,23	16	TT(I/S)16PCPE-5
6 x 3 x 1,23	16	TT(I/S)16PCPE-6
8 x 3 x 1,23	16	TT(I/S)16PCPE-8
12 x 3 x 1,23	16	TT(I/S)16PCPE-12
16 x 3 x 1,23	16	TT(I/S)16PCPE-16
2 x 2 x 0,61	20	TP(I/S-OS)20PCPE-2
3 x 2 x 0,61	20	TP(I/S-OS)20PCPE-3
4 x 2 x 0,61	20	TP(I/S-OS)20PCPE-4
5 x 2 x 0,61	20	TP(I/S-OS)20PCPE-5
6 x 2 x 0,61	20	TP(I/S-OS)20PCPE-6
7 x 2 x 0,61	20	TP(I/S-OS)20PCPE-7

Number of cores x conductor cross-section		Type designation
mm2	AWG	
8 x 2 x 0,61	20	TP(I/S-OS)20PCPE-8
10 x 2 x 0,61	20	TP(I/S-OS)20PCPE-10
12 x 2 x 0,61	20	TP(I/S-OS)20PCPE-12
16 x 2 x 0,61	20	TP(I/S-OS)20PCPE-16
20 x 2 x 0,61	20	TP(I/S-OS)20PCPE-20
24 x 2 x 0,61	20	TP(I/S-OS)20PCPE-24
2 x 2 x 0,96	18	TP(I/S-OS)18PCPE-2
3 x 2 x 0,96	18	TP(I/S-OS)18PCPE-3
4 x 2 x 0,96	18	TP(I/S-OS)18PCPE-4
5 x 2 x 0,96	18	TP(I/S-OS)18PCPE-5
6 x 2 x 0,96	18	TP(I/S-OS)18PCPE-6
7 x 2 x 0,96	18	TP(I/S-OS)18PCPE-7
8 x 2 x 0,96	18	TP(I/S-OS)18PCPE-8
10 x 2 x 0,96	18	TP(I/S-OS)18PCPE-10
12 x 2 x 0,96	18	TP(I/S-OS)18PCPE-12
14 x 2 x 0,96	18	TP(I/S-OS)18PCPE-14
16 x 2 x 0,96	18	TP(I/S-OS)18PCPE-16
20 x 2 x 0,96	18	TP(I/S-OS)18PCPE-20
24 x 2 x 0,96	18	TP(I/S-OS)18PCPE-24
2 x 2 x 1,23	16	TP(I/S-OS)16PCPE-2
3 x 2 x 1,23	16	TP(I/S-OS)16PCPE-3
4 x 2 x 1,23	16	TP(I/S-OS)16PCPE-4
5 x 2 x 1,23	16	TP(I/S-OS)16PCPE-5
6 x 2 x 1,23	16	TP(I/S-OS)16PCPE-6
7 x 2 x 1,23	16	TP(I/S-OS)16PCPE-7
8 x 2 x 1,23	16	TP(I/S-OS)16PCPE-8
10 x 2 x 1,23	16	TP(I/S-OS)16PCPE-10
12 x 2 x 1,23	16	TP(I/S-OS)16PCPE-12
16 x 2 x 1,23	16	TP(I/S-OS)16PCPE-16
20 x 2 x 1,23	16	TP(I/S-OS)16PCPE-20
24 x 2 x 1,23	16	TP(I/S-OS)16PCPE-24
2 x 2 x 1,94	14	TP(I/S-OS)14PCPE-2
3 x 2 x 1,94	14	TP(I/S-OS)14PCPE-3
4 x 2 x 1,94	14	TP(I/S-OS)14PCPE-4
5 x 2 x 1,94	14	TP(I/S-OS)14PCPE-5
6 x 2 x 1,94	14	TP(I/S-OS)14PCPE-6
7 x 2 x 1,94	14	TP(I/S-OS)14PCPE-7
8 x 2 x 1,94	14	TP(I/S-OS)14PCPE-8
10 x 2 x 1,94	14	TP(I/S-OS)14PCPE-10
12 x 2 x 1,94	14	TP(I/S-OS)14PCPE-12
16 x 2 x 1,94	14	TP(I/S-OS)14PCPE-16
20 x 2 x 1,94	14	TP(I/S-OS)14PCPE-20
24 x 2 x 1,94	14	TP(I/S-OS)14PCPE-24
14 x 2 x 1,00	18	TP(I/S-OBS)18PCPE-14
2 x 3 x 0,96	18	TT(I/S-OS)18PCPE-2
3 x 3 x 0,96	18	TT(I/S-OS)18PCPE-3
4 x 3 x 0,96	18	TT(I/S-OS)18PCPE-4
5 x 3 x 0,96	18	TT(I/S-OS)18PCPE-5
6 x 3 x 0,96	18	TT(I/S-OS)18PCPE-6
7 x 3 x 0,96	18	TT(I/S-OS)18PCPE-7
8 x 3 x 0,96	18	TT(I/S-OS)18PCPE-8

Number of cores x conductor cross-section		Type designation
mm2	AWG	
12 x 3 x 0,96	18	TT(I/S-OS)18PCPE-12
16 x 3 x 0,96	18	TT(I/S-OS)18PCPE-16
2 x 3 x 1,23	16	TT(I/S-OS)16PCPE-2
3 x 3 x 1,23	16	TT(I/S-OS)16PCPE-3
4 x 3 x 1,23	16	TT(I/S-OS)16PCPE-4
5 x 3 x 1,23	16	TT(I/S-OS)16PCPE-5
6 x 3 x 1,23	16	TT(I/S-OS)16PCPE-6
8 x 3 x 1,23	16	TT(I/S-OS)16PCPE-8
12 x 3 x 1,23	16	TT(I/S-OS)16PCPE-12
16 x 3 x 1,23	16	TT(I/S-OS)16PCPE-16
2 x 2 x 0,61	20	TP(OS)20PCPE-2
3 x 2 x 0,61	20	TP(OS)20PCPE-3
4 x 2 x 0,61	20	TP(OS)20PCPE-4
5 x 2 x 0,61	20	TP(OS)20PCPE-5
6 x 2 x 0,61	20	TP(OS)20PCPE-6
7 x 2 x 0,61	20	TP(OS)20PCPE-7
8 x 2 x 0,61	20	TP(OS)20PCPE-8
10 x 2 x 0,61	20	TP(OS)20PCPE-10
12 x 2 x 0,61	20	TP(OS)20PCPE-12
16 x 2 x 0,61	20	TP(OS)20PCPE-16
20 x 2 x 0,61	20	TP(OS)20PCPE-20
24 x 2 x 0,61	20	TP(OS)20PCPE-24
2 x 2 x 0,96	18	TP(OS)18PCPE-2
3 x 2 x 0,96	18	TP(OS)18PCPE-3
4 x 2 x 0,96	18	TP(OS)18PCPE-4
5 x 2 x 0,96	18	TP(OS)18PCPE-5
6 x 2 x 0,96	18	TP(OS)18PCPE-6
7 x 2 x 0,96	18	TP(OS)18PCPE-7
8 x 2 x 0,96	18	TP(OS)18PCPE-8
10 x 2 x 0,96	18	TP(OS)18PCPE-10
12 x 2 x 0,96	18	TP(OS)18PCPE-12
14 x 2 x 0,96	18	TP(OS)18PCPE-14
16 x 2 x 0,96	18	TP(OS)18PCPE-16
20 x 2 x 0,96	18	TP(OS)18PCPE-20
24 x 2 x 0,96	18	TP(OS)18PCPE-24
2 x 2 x 1,23	16	TP(OS)16PCPE-2
3 x 2 x 1,23	16	TP(OS)16PCPE-3
4 x 2 x 1,23	16	TP(OS)16PCPE-4
5 x 2 x 1,23	16	TP(OS)16PCPE-5
6 x 2 x 1,23	16	TP(OS)16PCPE-6
7 x 2 x 1,23	16	TP(OS)16PCPE-7
8 x 2 x 1,23	16	TP(OS)16PCPE-8
10 x 2 x 1,23	16	TP(OS)16PCPE-10
12 x 2 x 1,23	16	TP(OS)16PCPE-12
16 x 2 x 1,23	16	TP(OS)16PCPE-16
20 x 2 x 1,23	16	TP(OS)16PCPE-20
24 x 2 x 1,23	16	TP(OS)16PCPE-24
2 x 2 x 1,94	14	TP(OS)14PCPE-2
3 x 2 x 1,94	14	TP(OS)14PCPE-3
4 x 2 x 1,94	14	TP(OS)14PCPE-4
5 x 2 x 1,94	14	TP(OS)14PCPE-5

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Number of cores x conductor cross-section mm2		Type designation
mm2	AWG	
6 x 2 x 1,94	14	TP(OS)14PCPE-6
7 x 2 x 1,94	14	TP(OS)14PCPE-7
8 x 2 x 1,94	14	TP(OS)14PCPE-8
10 x 2 x 1,94	14	TP(OS)14PCPE-10
12 x 2 x 1,94	14	TP(OS)14PCPE-12
16 x 2 x 1,94	14	TP(OS)14PCPE-16
20 x 2 x 1,94	14	TP(OS)14PCPE-20
24 x 2 x 1,94	14	TP(OS)14PCPE-24
2 x 2 x 0,61	20	TP(OBS)20PCPE-2
3 x 2 x 0,61	20	TP(OBS)20PCPE-3
4 x 2 x 0,61	20	TP(OBS)20PCPE-4
5 x 2 x 0,61	20	TP(OBS)20PCPE-5
6 x 2 x 0,61	20	TP(OBS)20PCPE-6
7 x 2 x 0,61	20	TP(OBS)20PCPE-7
8 x 2 x 0,61	20	TP(OBS)20PCPE-8
10 x 2 x 0,61	20	TP(OBS)20PCPE-10
12 x 2 x 0,61	20	TP(OBS)20PCPE-12
16 x 2 x 0,61	20	TP(OBS)20PCPE-16
20 x 2 x 0,61	20	TP(OBS)20PCPE-20
24 x 2 x 0,61	20	TP(OBS)20PCPE-24
1 x 2 x 0,96	18	TP(OBS)18PCPE-1
2 x 2 x 0,96	18	TP(OBS)18PCPE-2
3 x 2 x 0,96	18	TP(OBS)18PCPE-3
4 x 2 x 0,96	18	TP(OBS)18PCPE-4
5 x 2 x 0,96	18	TP(OBS)18PCPE-5
6 x 2 x 0,96	18	TP(OBS)18PCPE-6
7 x 2 x 0,96	18	TP(OBS)18PCPE-7
8 x 2 x 0,96	18	TP(OBS)18PCPE-8
9 x 2 x 0,96	18	TP(OBS)18PCPE-9
10 x 2 x 0,96	18	TP(OBS)18PCPE-10
12 x 2 x 0,96	18	TP(OBS)18PCPE-12
14 x 2 x 0,96	18	TP(OBS)18PCPE-14
15 x 2 x 0,96	18	TP(OBS)18PCPE-15
16 x 2 x 0,96	18	TP(OBS)18PCPE-16
20 x 2 x 0,96	18	TP(OBS)18PCPE-20
24 x 2 x 0,96	18	TP(OBS)18PCPE-24
2 x 2 x 1,23	16	TP(OBS)16PCPE-2
3 x 2 x 1,23	16	TP(OBS)16PCPE-3
4 x 2 x 1,23	16	TP(OBS)16PCPE-4
5 x 2 x 1,23	16	TP(OBS)16PCPE-5
6 x 2 x 1,23	16	TP(OBS)16PCPE-6
7 x 2 x 1,23	16	TP(OBS)16PCPE-7
8 x 2 x 1,23	16	TP(OBS)16PCPE-8
10 x 2 x 1,23	16	TP(OBS)16PCPE-10
12 x 2 x 1,23	16	TP(OBS)16PCPE-12
16 x 2 x 1,23	16	TP(OBS)16PCPE-16
20 x 2 x 1,23	16	TP(OBS)16PCPE-20
24 x 2 x 1,23	16	TP(OBS)16PCPE-24
2 x 2 x 1,94	14	TP(OBS)14PCPE-2
3 x 2 x 1,94	14	TP(OBS)14PCPE-3
4 x 2 x 1,94	14	TP(OBS)14PCPE-4
5 x 2 x 1,94	14	TP(OBS)14PCPE-5

Number of cores x conductor cross-section mm2		Type designation
mm2	AWG	
6 x 2 x 1,94	14	TP(OBS)14PCPE-6
7 x 2 x 1,94	14	TP(OBS)14PCPE-7
8 x 2 x 1,94	14	TP(OBS)14PCPE-8
10 x 2 x 1,94	14	TP(OBS)14PCPE-10
12 x 2 x 1,94	14	TP(OBS)14PCPE-12
16 x 2 x 1,94	14	TP(OBS)14PCPE-16
20 x 2 x 1,94	14	TP(OBS)14PCPE-20
24 x 2 x 1,94	14	TP(OBS)14PCPE-24
3 x 0,61	20	C20(OS)PCPE-3
4 x 0,61	20	C20(OS)PCPE-4
5 x 0,61	20	C20(OS)PCPE-5
6 x 0,61	20	C20(OS)PCPE-6
3 x 0,96	18	C18(OS)PCPE-3
4 x 0,96	18	C18(OS)PCPE-4
5 x 0,96	18	C18(OS)PCPE-5
6 x 0,96	18	C18(OS)PCPE-6
7 x 0,96	18	C18(OS)PCPE-7
12 x 0,96	18	C18(OS)PCPE-12
20 x 0,96	18	C18(OS)PCPE-20
25 x 0,96	18	C18(OS)PCPE-25
3 x 1,23	16	C16(OS)PCPE-3
4 x 1,23	16	C16(OS)PCPE-4
5 x 1,23	16	C16(OS)PCPE-5
6 x 1,23	16	C16(OS)PCPE-6
12 x 1,23	16	C16(OS)PCPE-12
15 x 1,23	16	C16(OS)PCPE-15
3 x 1,94	14	C14(OS)PCPE-3
4 x 1,94	14	C14(OS)PCPE-4
5 x 1,94	14	C14(OS)PCPE-5
6 x 1,94	14	C14(OS)PCPE-6
7 x 1,94	14	C14(OS)PCPE-7
14 x 1,94	14	C14(OS)PCPE-14
19 x 1,94	14	C14(OS)PCPE-19
30 x 1,94	14	C14(OS)PCPE-30
44 x 1,94	14	C14(OS)PCPE-44
60 x 1,94	14	C14(OS)PCPE-60
91 x 1,94	14	C14(OS)PCPE-91
4 x 5,53	10	C10(OS)PCPE-4
3 x 0,61	20	C20(OBS)PCPE-3
4 x 0,61	20	C20(OBS)PCPE-4
5 x 0,61	20	C20(OBS)PCPE-5
6 x 0,61	20	C20(OBS)PCPE-6
3 x 0,96	18	C18(OBS)PCPE-3
4 x 0,96	18	C18(OBS)PCPE-4
5 x 0,96	18	C18(OBS)PCPE-5
6 x 0,96	18	C18(OBS)PCPE-6
7 x 0,96	18	C18(OBS)PCPE-7
12 x 0,96	18	C18(OBS)PCPE-12
20 x 0,96	18	C18(OBS)PCPE-20

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Number of cores x conductor cross-section		Type designation
mm2	AWG	
25 x 0,96	18	C18(OBS)PCPE-25
3 x 1,23	16	C16(OBS)PCPE-3
4 x 1,23	16	C16(OBS)PCPE-4
5 x 1,23	16	C16(OBS)PCPE-5
6 x 1,23	16	C16(OBS)PCPE-6
12 x 1,23	16	C16(OBS)PCPE-12
15 x 1,23	16	C16(OBS)PCPE-15
2 x 1,94	14	C14(OBS)PCPE-2
3 x 1,94	14	C14(OBS)PCPE-3
4 x 1,94	14	C14(OBS)PCPE-4

Number of cores x conductor cross-section		Type designation
mm2	AWG	
5 x 1,94	14	C14(OBS)PCPE-5
6 x 1,94	14	C14(OBS)PCPE-6
7 x 1,94	14	C14(OBS)PCPE-7
14 x 1,94	14	C14(OBS)PCPE-14
19 x 1,94	14	C14(OBS)PCPE-19
30 x 1,94	14	C14(OBS)PCPE-30
44 x 1,94	14	C14(OBS)PCPE-44
60 x 1,94	14	C14(OBS)PCPE-60
91 x 1,94	14	C14(OBS)PCPE-91
4 x 5,53	10	C10(OBS)PCPE-4

Application/Limitation

The requirements of SOLAS Amendments Chapter II-1, Part D, Reg. 45, 5.2 (provision to be taken to limit Fire Propagation along Bunches of Cables or Wires) are fulfilled without any additional measures.

Type Approval documentation

Tests carried out

Test according to IEEE 45 (2002), IEEE 1580 (2010) and IEC 60332-3 cat. A.

Marking of product

Draka 32/BOSTRIG – 125 Type P – IEEE1580 (2010) - Type designation - number and size of conductors - Voltage.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) and selected type tests (ref. to applicable class programs) checked (if not available these tests shall be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE