

Certificate No:
E-11173
 File No:
827.10
 Job Id:
262.1-004504-3

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Power Cable

with type designation(s)

MOR Polyrad XT-125, Type P, C..PCP 0,6/1 kV, MOR Polyrad XT-125, Type P, C(OS)..PCP 0,6/1 kV

Issued to

General Cable
WILLIMANTIC CT, United States

is found to comply with

Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
IEEE 1580 (2010)
IEEE 45 1998
IEC 60332-3-22 (2009-02)

Application :

General power and lighting, control.
Mud resistant according to NEK606.

Type	Voltage class (kV)	Temp. class (°C)
MOR Polyrad XT-125, Type P, C..PCP 0,6/1 kV	0,6/1	95
MOR Polyrad XT-125, Type P, C(OS)..PCP 0,6/1 kV	0,6/1	95

This Certificate is valid until **2015-06-30**.

Issued at **Høvik** on **2014-08-26**

DNV GL local station: **New York**

for **DNV GL**

Approval Engineer: **Ivar Bull**

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Marit Laumann
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. If any person suffers loss or damage which is proven to have been caused by any negligent act or omission of the Society, then the Society shall pay compensation to such person for his proven direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question. The maximum compensation shall never exceed USD 2 million. In this provision the "Society" shall mean DNV GL AS as well as all its direct and indirect owners, affiliates, subsidiaries, directors, officers, employees, agents and any other person or entity acting on behalf of DNV GL AS.

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Product description

Type: MOR POLYRAD XT-125, Type P, C..PCP 0,6/1 kV
 MOR POLYRAD XT-125, Type P, C(O/S)..PCP 0,6/1 kV

Conductors:	Tinned stranded copper
Insulation:	XLPO(Cross-linked Polyethylene) (Type P)
Filler:	Flame Retardant, Non-hygroscopic Polypropylene (as needed)
Screen:	Aluminium/Mylar tape w/ tinned copper drain wire or a tinned Copper wire braid. (O/S only)
Sheath:	Chlorosulfonated Polyethylene (Type CP)

Number of cores x conductor cross- section		Overall diameter	
mm ²	AWG/ MCM	mm	inches
2 x 0,96	18	8,89	0,350
3 x 0,96	18	9,40	0,370
4 x 0,96	18	10,16	0,400
5 x 0,96	18	10,79	0,425
6 x 0,96	18	11,81	0,465
7 x 0,96	18	11,81	0,465
10 x 0,96	18	14,48	0,570
12 x 0,96	18	14,86	0,585
16 x 0,96	18	16,64	0,655
20 x 0,96	18	18,41	0,725
37 x 0,96	18	24,00	0,945
44 x 0,96	18	26,80	1,055
45 x 0,96	18	27,30	1,075
60 x 0,96	18	29,59	1,165
61 x 0,96	18	29,59	1,165
91 x 0,96	18	35,43	1,395
2 x 1,31	16	9,40	0,370
3 x 1,31	16	9,65	0,380
4 x 1,31	16	10,41	0,410
5 x 1,31	16	11,30	0,445
6 x 1,31	16	12,19	0,480
7 x 1,31	16	12,19	0,480
8 x 1,31	16	13,08	0,515
10 x 1,31	16	15,62	0,615
12 x 1,31	16	16,00	0,630
14 x 1,31	16	18,29	0,720
20 x 1,31	16	18,92	0,745
24 x 1,31	16	20,95	0,825
37 x 1,31	16	25,02	0,985
40 x 1,31	16	26,03	1,025
44 x 1,31	16	27,81	1,095
60 x 1,31	16	30,99	1,220
91 x 1,31	16	37,72	1,485
2 x 1,94	14	10,03	0,395
3 x 1,94	14	10,54	0,415
4 x 1,94	14	11,56	0,455
5 x 1,94	14	12,45	0,490
6 x 1,94	14	13,46	0,530
7 x 1,94	14	13,46	0,530

Number of cores x conductor cross- section		Overall diameter	
mm ²	AWG/ MCM	mm	inches
8 x 1,94	14	14,60	0,575
10 x 1,94	14	16,76	0,660
12 x 1,94	14	17,53	0,690
14 x 1,94	14	17,02	0,670
19 x 1,94	14	20,45	0,805
20 x 1,94	14	20,95	0,825
24 x 1,94	14	24,76	0,975
30 x 1,94	14	26,42	1,040
37 x 1,94	14	28,07	1,105
40 x 1,94	14	29,46	1,160
44 x 1,94	14	31,88	1,255
60 x 1,94	14	35,31	1,390
91 x 1,94	14	44,20	1,740
2 x 3,08	12	11,05	0,435
3 x 3,08	12	11,68	0,460
4 x 3,08	12	12,57	0,495
5 x 3,08	12	13,97	0,550
6 x 3,08	12	14,86	0,585
7 x 3,08	12	14,86	0,585
8 x 3,08	12	16,13	0,635
10 x 3,08	12	18,67	0,735
12 x 3,08	12	19,68	0,775
14 x 3,08	12	20,32	0,800
19 x 3,08	12	23,75	0,935
20 x 3,08	12	25,02	0,985
37 x 3,08	12	31,50	1,240
40 x 3,08	12	33,27	1,310
60 x 3,08	12	39,88	1,570
2 x 5,52	10	12,57	0,495
3 x 5,52	10	13,21	0,520
4 x 5,52	10	14,48	0,570
5 x 5,52	10	16,00	0,630
6 x 5,52	10	17,14	0,675
7 x 5,52	10	17,14	0,675
8 x 5,52	10	18,54	0,730
9 x 5,52	10	19,94	0,785
10 x 5,52	10	23,24	0,915
12 x 5,52	10	24,00	0,945
20 x 5,52	10	29,34	1,155

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Number of cores x conductor cross- section		Overall diameter	
mm ²	AWG/ MCM	mm	inches
37 x 5,52	10	37,34	1,470
3 x 0,62	20	9,52	0,375
4 x 0,62	20	10,16	0,400
5 x 0,62	20	10,79	0,425
6 x 0,62	20	11,68	0,460
3 x 0,96	18	9,91	0,390
4 x 0,96	18	10,67	0,420
6 x 0,96	18	12,45	0,490
7 x 0,96	18	12,45	0,490
12 x 0,96	18	15,62	0,615
20 x 0,96	18	18,92	0,745
25 x 0,96	18	22,61	0,890
3 x 1,22	16	10,41	0,410
4 x 1,22	16	11,18	0,440

Number of cores x conductor cross- section		Overall diameter	
mm ²	AWG/ MCM	mm	inches
12 x 1,22	16	16,51	0,650
15 x 1,22	16	18,03	0,710
2 x 1,94	14	10,67	0,420
3 x 1,94	14	11,30	0,445
5 x 1,94	14	13,08	0,515
6 x 1,94	14	14,22	0,560
7 x 1,94	14	14,22	0,560
14 x 1,94	14	18,16	0,715
19 x 1,94	14	20,95	0,825
30 x 1,94	14	26,80	1,055
44 x 1,94	14	32,38	1,275
60 x 1,94	14	35,94	1,415
91 x 1,94	14	44,70	1,760
4 x 5,52	10	15,11	0,595

Application/Limitation

The requirements of SOLAS Amendments 1981 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

Type tests according to IEEE 45, IEC 60092-3 and IEC 60332-3 cat. A

Marking of product

MOR POLYRAD XT-125, Type P, C..PCP, size, 0,6/1 kV or MOR POLYRAD XT-125, Type P, C(O/S)..PCP, size, 0,6/1 kV – IEC 60332-3-22 - Lot No.

Periodical assessment

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

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to 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.

Survey to be performed at least every second year.

END OF CERTIFICATE