DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **E-11173**

This is to certify that the
Electric Power Cable

with type designation(s)
Polyrad XT-125, Type P, C..PCP 0,6/1 kV, Polyrad XT-125, Type P, C(OS)..PCP 0,6/1 kV

Manufactured by
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 45 1998

Application
General power and lighting, control.

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

Høvik, 2011-06-22
for **Det Norske Veritas AS**

Marit Laumann
Marit Laumann
Head of Section

DNV local office:
New York

This Certificate is valid until
2015-06-30

Ivar Bull
Ivar Bull
Surveyor

Product description

Type: POLYRAD XT-125, Type P, C..PCP 0,6/1 kV
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
8 x 1,94	14	14,60	0,575
10 x 1,94	14	16,76	0,660

Number of cores x conductor cross- section		Overall diameter	
mm^2	AWG/ MCM	mm	inches
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
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

Number of cores x conductor cross- section		Overall diameter	
mm^2	AWG/ MCM	mm	inches
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
12 x 1,22	16	16,51	0,650
15 x 1,22	16	18,03	0,710

Number of cores x conductor cross- section		Overall diameter	
mm^2	AWG/ MCM	mm	inches
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

Data sheets: BR-782 dated 20.03.99
Test reports: ITS No: J97007096-001 dated 09.09.97.

Tests carried out

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

Marking of product

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

Certificate retention survey

The scope of the retention/renewal survey 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