DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **E-11174**

This is to certify that the
Electric Power Cable

with type designation(s)
Polyrad XT-125, Type P, C..PCBS 0,6/1 kV, Polyrad XT-125, Type P, C(OS)..PCBS 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..PCBS 0,6/1 kV	0,6/1	95
Polyrad XT-125, Type P, C(OS)..PCBS 0,6/1 kV	0,6/1	95

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

This Certificate is valid until
2015-06-30

Marit Laumann
Head of Section

DNV local office:
New York

Ivar Bull
Surveyor

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 proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

Product description

Type: POLYRAD XT-125, Type P, C..PCPBS 0,6/1 kV
POLYRAD XT-125, Type P, C(O/S)..PCPBS 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)
Inner Sheath:	Chlorosulfonated Polyethylene (Type CP)
Metal covering:	Bronze or Aluminium wire braid
Outer 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	13,46	0,530
3 x 0,96	18	13,97	0,550
4 x 0,96	18	14,86	0,585
5 x 0,96	18	15,37	0,605
6 x 0,96	18	16,38	0,645
7 x 0,96	18	16,38	0,645
10 x 0,96	18	19,05	0,750
12 x 0,96	18	19,43	0,765
16 x 0,96	18	22,22	0,875
20 x 0,96	18	24,00	0,945
37 x 0,96	18	29,59	1,165
44 x 0,96	18	32,38	1,275
45 x 0,96	18	32,89	1,295
60 x 0,96	18	35,18	1,385
61 x 0,96	18	35,18	1,385
91 x 0,96	18	41,02	1,615
2 x 1,31	16	13,97	0,550
3 x 1,31	16	14,22	0,560
4 x 1,31	16	14,99	0,590
5 x 1,31	16	15,87	0,625
6 x 1,31	16	16,76	0,660
7 x 1,31	16	16,76	0,660
8 x 1,31	16	17,65	0,695
10 x 1,31	16	20,19	0,795
12 x 1,31	16	20,57	0,810
14 x 1,31	16	23,88	0,940
20 x 1,31	16	24,51	0,965
24 x 1,31	16	26,54	1,045
37 x 1,31	16	30,61	1,205
40 x 1,31	16	31,62	1,245
44 x 1,31	16	33,40	1,315
60 x 1,31	16	36,58	1,440
91 x 1,31	16	44,83	1,765
2 x 1,94	14	14,60	0,575
3 x 1,94	14	15,11	0,595
4 x 1,94	14	16,13	0,635
5 x 1,94	14	17,02	0,670
6 x 1,94	14	18,03	0,710

Number of cores x conductor cross- section		Overall diameter	
mm^2	AWG/ MCM	mm	inches
7 x 1,94	14	18,03	0,710
8 x 1,94	14	19,18	0,755
10 x 1,94	14	22,35	0,880
12 x 1,94	14	23,11	0,910
14 x 1,94	14	22,61	0,890
19 x 1,94	14	26,03	1,025
20 x 1,94	14	26,54	1,045
24 x 1,94	14	30,35	1,195
30 x 1,94	14	32,00	1,260
37 x 1,94	14	33,65	1,325
40 x 1,94	14	35,05	1,380
44 x 1,94	14	37,46	1,475
60 x 1,94	14	42,42	1,670
91 x 1,94	14	51,31	2,020
2 x 3,08	12	15,62	0,615
3 x 3,08	12	16,26	0,640
4 x 3,08	12	17,14	0,675
5 x 3,08	12	18,54	0,730
6 x 3,08	12	19,43	0,765
7 x 3,08	12	19,43	0,765
8 x 3,08	12	20,70	0,815
10 x 3,08	12	24,26	0,955
12 x 3,08	12	25,27	0,995
14 x 3,08	12	25,91	1,020
19 x 3,08	12	29,34	1,155
20 x 3,08	12	30,61	1,205
37 x 3,08	12	37,08	1,460
40 x 3,08	12	38,86	1,530
60 x 3,08	12	46,99	1,850
2 x 5,52	10	17,14	0,675
3 x 5,52	10	17,78	0,700
4 x 5,52	10	19,05	0,750
5 x 5,52	10	20,57	0,810
6 x 5,52	10	21,72	0,855
7 x 5,52	10	21,72	0,855
8 x 5,52	10	23,11	0,910
9 x 5,52	10	25,53	1,005
10 x 5,52	10	28,83	1,135

Number of cores x conductor cross- section		Overall diameter	
mm^2	AWG/ MCM	mm	inches
12 x 5,52	10	29,59	1,165
20 x 5,52	10	34,92	1,375
37 x 5,52	10	44,45	1,750
3 x 0,62	20	14,10	0,555
4 x 0,62	20	14,73	0,580
5 x 0,62	20	15,37	0,605
6 x 0,62	20	16,26	0,640
3 x 0,96	18	14,48	0,570
4 x 0,96	18	15,24	0,600
6 x 0,96	18	17,02	0,670
7 x 0,96	18	17,02	0,670
12 x 0,96	18	20,19	0,795
20 x 0,96	18	24,51	0,965
25 x 0,96	18	28,19	1,110
3 x 1,22	16	14,99	0,590
4 x 1,22	16	15,75	0,620
12 x 1,22	16	21,08	0,830

Number of cores x conductor cross- section		Overall diameter	
mm^2	AWG/ MCM	mm	inches
15 x 1,22	16	23,62	0,930
2 x 1,94	14	16,26	0,640
3 x 1,94	14	15,87	0,625
5 x 1,94	14	17,65	0,695
6 x 1,94	14	18,80	0,740
7 x 1,94	14	18,80	0,740
14 x 1,94	14	23,75	0,935
19 x 1,94	14	26,54	1,045
30 x 1,94	14	32,38	1,275
44 x 1,94	14	37,97	1,495
60 x 1,94	14	41,53	1,635
91 x 1,94	14	51,82	2,040
4 x 5,52	10	19,68	0,775

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 29.03.99
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..PCPBS, size, 0,6/1 kV or POLYRAD XT-125, Type P, C(O/S)..PCPBS, 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