DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **E-11177**

This is to certify that the
Electric Power Cable

with type designation(s)
Polyrad XT-125, Type P, DPCP & TPCP & FPCP & QPCP 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.

Voltage class (kV)	**0,6/1**
Temp. class (°C)	**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

Certificate No.: E-11177
File No.: 827.10
Job Id.: 262.1-004504-2

Product description

Type: POLYRAD XT-125, Type P, DPCP, TPCP, FPCP and QPCP 0,6/1 kV

Conductors:	Tinned stranded copper
Insulation:	XLPO(Cross-linked Polyethylene) (Type P)
Filler:	Flame Retardant, Non-hygroscopic Polypropylene (as needed)
Outer Sheath:	Chlorosulfonated Polyethylene (Type CP)

Number of cores x conductor cross- section		Overall diameter	
mm^2	AWG/ MCM	mm	inches
2 x 7,57	8	15,09	0,594
2 x 12,48	6	17,07	0,672
2 x 18,52	5	20,07	0,790
2 x 21,49	4	21,08	0,830
2 x 25,58	3	23,75	0,935
2 x 30,70	2	25,53	1,005
2 x 46,05	1	29,74	1,171
2 x 56,29	1/0	32,23	1,269
2 x 66,53	2/0	34,16	1,345
2 x 92,11	3/0	39,60	1,559
2 x 112,59	4/0	42,29	1,665
2 x 133,06	262	45,59	1,795
2 x 158,65	313	49,15	1,935
3 x 7,57	8	16,28	0,641
3 x 12,48	6	18,42	0,725
3 x 18,52	5	22,68	0,893
3 x 21,49	4	23,77	0,936
3 x 25,58	3	25,15	0,990
3 x 30,70	2	27,07	1,066
3 x 46,05	1	31,62	1,245
3 x 56,29	1/0	34,31	1,351
3 x 66,53	2/0	37,41	1,473
3 x 92,11	3/0	42,69	1,681
3 x 46,36	4/0	46,36	1,825
3 x 133,06	262	49,93	1,966
3 x 158,65	313	53,77	2,117
3 x 189,35	373	57,33	2,257
3 x 224,97	444	62,48	2,460
3 x 271,24	535	68,10	2,681
3 x 327,53	646	74,01	2,914

Number of cores x conductor cross- section		Overall diameter	
mm^2	AWG/ MCM	mm	inches
3 x 394,06	777	79,22	3,119
4 x 7,57	8	17,76	0,699
4 x 12,48	6	20,14	0,793
4 x 18,52	5	24,77	0,975
4 x 21,49	4	26,00	1,024
4 x 25,58	3	27,53	1,084
4 x 30,70	2	29,67	1,168
4 x 46,05	1	34,75	1,368
4 x 56,29	1/0	37,75	1,486
4 x 66,53	2/0	41,60	1,638
4 x 92,11	3/0	47,69	1,877
4 x 112,59	4/0	50,93	2,005
4 x 133,06	262	54,91	2,162
4 x 158,65	313	59,20	2,331
4 x 189,35	373	63,17	2,487
4 x 224,97	444	68,83	2,710
4 x 271,24	535	74,96	2,951
4 x 327,53	646	83,53	3,288
5 x 7,57	8	19,47	0,766
5 x 12,48	6	23,16	0,912
5 x 18,52	5	27,20	1,071
5 x 21,49	4	28,57	1,125
5 x 25,58	3	30,29	1,193
5 x 30,70	2	32,69	1,287
5 x 46,05	1	38,38	1,511
5 x 56,29	1/0	43,27	1,703
5 x 66,53	2/0	45,87	1,806
5 x 92,11	3/0	52,60	2,071
5 x 112,59	4/0	56,24	2,214

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, DPCP or TPCP or FPCP or QPCP, 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 TA Certificate.
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Survey to be performed at least every second year.

END OF CERTIFICATE