

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Power Cable

with type designation(s)

SP(HD), SPCPE, DPCPE, TPCPE, FPCPE, QPCPE and C()PCPE

Issued to

AMERCABLE INCORPORATED dba Nexans AmerCable
Houston, TX, USA

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Type	Rated voltage (kV)	Temp. class (°C)
SP(HD)	2	95
SPCPE, DPCPE, TPCPE, FPCPE, QPCPE and C()PCPE	0,6/1	95

Issued at **Hamburg** on **2019-11-01**

This Certificate is valid until **2024-10-31**.

for **DNV GL**

DNV GL local station: **Houston**

Approval Engineer: **Carsten Hunsalz**

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Arne Schaarmann
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.



Product description

Type: SP(HD) 2 kV, SPCPE, DPCPE, TPCPE, QPCPE and C()PCPE 0,6/1 kV

Construction:

Conductor: Tinned stranded copper

Insulation: P95, cross-linked polyolefin (Type P)

Inner Sheath: CPE (not required for SP(HD) 2 kV cables)

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
2 kV				
1 x 112,6	4/0	18,52	0,729	-119
1 x 133,1	262	22,56	0,888	-120
1 x 158,7	313	24,23	0,954	-121
1 x 189,4	373	25,86	1,018	-122
1 x 225,2	444	27,79	1,094	-123
1 x 271,3	535	30,78	1,212	-124
1 x 327,6	646	33,02	1,300	-126
1 x 394,2	777	35,43	1,395	-127
1 x 563,1	1111	41,96	1,652	-129

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
1 x 4,0		6,94	0,273	-0191
1 x 16		10,97	0,432	-0192
1 x 70		18,16	0,715	-0193
2 x 0,97	18	8,76	0,345	-550
2 x 1,32	16	9,47	0,373	-501
2 x 2,08	14	10,24	0,403	-507
2 x 3,29	12	11,20	0,441	-515
2 x 5,53	10	12,22	0,481	-553
2 x 7,58	8	15,24	0,600	-209
2 x 12,5	6	17,27	0,680	-210
2 x 21,5	4	22,53	0,887	-594
2 x 56,3	1/0	31,09	1,224	-216
2 x 112,6	4/0	39,67	1,562	-219
3 x 0,97	18	9,19	0,362	-556
3 x 1,32	16	9,96	0,392	-502
3 x 2,08	14	10,77	0,424	-508
3 x 3,29	12	11,81	0,465	-516
3 x 5,53	10	12,90	0,508	-308
3 x 7,58	8	16,18	0,637	-309
3 x 12,5	6	18,36	0,723	-310
3 x 21,5	4	23,93	0,942	-312
3 x 30,7	2	27,53	1,084	-314
3 x 46,1	1	30,68	1,208	-315

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
3 x 56,3	1/0	33,17	1,306	-316
3 x 66,5	2/0	36,12	1,422	-317
3 x 92,1	3/0	38,81	1,528	-318
3 x 112,6	4/0	42,42	1,670	-319
3 x 133,1	262	49,50	1,949	-320
3 x 158,7	313	53,14	2,092	-321
3 x 189,4	373	56,67	2,231	-322
3 x 225,2	444	60,81	2,394	-323
3 x 271,3	535	66,98	2,637	-324
3 x 327,6	646	73,41	2,890	-326
3 x 394,2	777	79,02	3,111	-327
4 x 0,97	18	9,86	0,388	-557
4 x 1,32	16	10,74	0,423	-529
4 x 2,08	14	11,66	0,459	-509
4 x 3,29	12	17,42	0,686	-517
4 x 5,53	10	18,64	0,734	-408
4 x 7,58	8	23,39	0,921	-409
4 x 12,5	6	25,83	1,017	-410
4 x 21,5	4	31,95	1,258	-412
4 x 30,7	2	35,99	1,417	-414
4 x 46,1	1	39,50	1,555	-415
4 x 56,3	1/0	42,29	1,665	-416
4 x 66,5	2/0	47,22	1,859	-417
4 x 92,1	3/0	51,82	2,040	-418

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Certificate No: **TAE00003S9**

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
4 x 112,6	4/0	55,85	2,199	-419
4 x 133,1	262	62,00	2,441	-420
4 x 158,7	313	66,07	2,601	-421
4 x 158,6	313	66,29	2,610	-657
4 x 189,4	373	71,63	2,820	-422
4 x 225,2	444	76,25	3,002	-423
4 x 271,3	535	84,79	3,338	-424
4 x 327,6	646	90,17	3,550	-426
5 x 0,97	18	15,54	0,612	-558
5 x 1,32	16	16,23	0,639	-559
5 x 2,08	14	17,25	0,679	-510
5 x 3,29	12	18,57	0,731	-560
5 x 5,53	10	19,94	0,785	-561
5 x 7,58	8	25,10	0,988	-562
5 x 12,5	6	28,88	1,137	-563
5 x 21,5	4	34,54	1,360	-565
5 x 30,7	2	39,07	1,538	-566
5 x 46,1	1	44,60	1,756	-567
5 x 56,3	1/0	47,73	1,879	-568
5 x 66,5	2/0	53,04	2,088	-569
5 x 112,6	4/0	60,91	2,398	-701
6 x 2,08	14	13,69	0,539	-511
6 x 3,29	12	15,14	0,596	-547
7 x 1,32	16	13,08	0,515	-505
7 x 2,08	14	13,69	0,539	-521
7 x 7,58	8	22,48	0,885	-570
8 x 1,32	16	13,49	0,531	-503
10 x 1,32	16	15,62	0,615	-504
10 x 2,08	14	17,15	0,675	-512
10 x 3,29	12	19,08	0,751	-518
12 x 2,08	14	17,68	0,696	-583
14 x 2,08	14	18,57	0,731	-523

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
16 x 1,32	16	17,78	0,700	-546
20 x 1,32	16	19,63	0,773	-687
20 x 2,08	14	22,71	0,894	-513
20 x 3,29	12	25,27	0,995	-519
24 x 1,32	16	22,58	0,889	-525
24 x 2,08	14	25,12	0,989	-571
24 x 3,29	12	28,02	1,103	-572
30 x 2,08	14	26,54	1,045	-573
36 x 1,32	16	25,35	0,998	-710
36 x 2,08	14	28,02	1,103	-574
36 x 3,29	12	31,39	1,236	-575
37 x 1,32	16	25,91	1,020	-526
37 x 2,08	14	28,58	1,125	-514
37 x 3,29	12	31,95	1,258	-520
44 x 0,97	18	26,54	1,045	-576
44 x 1,32	16	27,84	1,096	-577
44 x 2,08	14	30,73	1,210	-578
60 x 1,32	16	32,05	1,262	-527
60 x 2,08	14	34,82	1,371	-579
91 x 0,97	18	38,02	1,497	-718
91 x 1,32	16	38,20	1,504	-581
91 x 2,08	14	42,39	1,669	-582
12 x 1,5 + 7 x 2,5 + 7 x 6,0		39,24	1,545	-656
8 x 1,5 + 7 x 16		39,50	1,555	-659

Application/Limitation

General power and lighting. Control.

The cable may be installed and sized according to IEC 60092-352, except for the 2 conditions listed below.

1. Cables with flexible rope stranded conductors are to be installed on continuous cable trays and, if horizontal, on the top of the tray giving support of the complete cable. Cables intended for flexing service may be installed on festooned systems or articulating cableways.
2. Cable ends with flexible rope stranded conductors are to be terminated using approved pressurized terminals suitable for these conductors.

Type Approval documentation

Tests carried out

Type tests according to IEEE1580-2010

Marking of product

AMERCABLE - SP(HD) 2 kV or SPCPE or DPCPE 0,6/1 kV or TPCPE 0,6/1 kV or QPCPE 0,6/1 kV or C()PCPE 0,6/1 kV - Size

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) checked (if not available tests according to 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.

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