DNV·GL

Certificate No:
TAE00003SC

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Power Cable

with type designation(s)
TP()(IS-OS)PCPEBS, TT()(IS-OS)PCPEBS, C()(OS)PCPEBS, C()(OBS)PCPEBS

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)
TP()(IS-OS)PCPEBS	0,6/1	95
TT()(IS-OS)PCPEBS	0,6/1	95
C()(OS)PCPEBS	0,6/1	95
C()(OBS)PCPEBS	0,6/1	95

Issued at **Hamburg** on **2019-11-01**
This Certificate is valid until **2024-10-31**.
DNV GL local station: **Houston**

Approval Engineer: **Carsten Hunsalz**

for **DNV GL**

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.

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Job Id: **262.1-019612-3**
Certificate No: **TAE00003SC**

Product description

Type: TP()(IS-OS)PCPEBS, TT()(IS-OS)PCPEBS, C()(OS)PCPEBS, C()(OBS)PCPEBS 0,6/1 kV

Construction:

Conductor:	Tinned stranded copper
Insulation:	P95, cross-linked polyolefin (Type P)
Screen:	Poly/Aluminium tape w/drain wire or Copper wire braid
Inner Sheath:	CPE
Metal covering:	Copper or Bronze or Aluminum wire braid
Outer sheath:	CPE

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
Individual Screen				
1 pair 0,97	18	15,42	0,607	-601YY
2 pair 0,97	18	19,46	0,766	-602YY
3 pair 0,97	18	20,22	0,796	-603YY
4 pair 0,97	18	21,46	0,845	-604YY
5 pair 0,97	18	22,86	0,900	-605YY
7 pair 0,97	18	24,31	0,957	-606YY
8 pair 0,97	18	25,78	1,015	-607YY
10 pair 0,97	18	29,16	1,148	-608YY
12 pair 0,97	18	29,90	1,177	-609YY
16 pair 0,97	18	32,54	1,281	-645YY
18 pair 0,97	18	33,99	1,338	-641YY
24 pair 0,97	18	38,84	1,529	-646YY
1 pair 1,0		13,79	0,543	-671YY
1 pair 1,0		13,84	0,545	-544YY
3 pair 1,0		20,29	0,799	-672YY
3 pair 1,0		23,75	0,935	-530YYBR
5 pair 1,0		25,40	1,000	-531YY
7 pair 1,0		28,70	1,130	-532YY
7 pair 1,0		28,70	1,130	-673YY
12 pair 1,0		32,08	1,263	-674YY
12 pair 1,0		34,10	1,343	-533YY
1 pair 1,32	16	15,93	0,627	-610YY
2 pair 1,32	16	20,32	0,800	-611YY
3 pair 1,32	16	21,13	0,832	-612YY
4 pair 1,32	16	22,50	0,886	-613YY
5 pair 1,32	16	24,00	0,945	-614YY
7 pair 1,32	16	25,58	1,007	-615YY
8 pair 1,32	16	27,20	1,071	-616YY
10 pair 1,32	16	30,86	1,215	-617YY
12 pair 1,32	16	31,67	1,247	-618YY
16 pair 1,32	16	34,54	1,360	-619YY
18 pair 1,32	16	36,12	1,422	-626YY
20 pair 1,32	16	39,42	1,552	-688YY
24 pair 1,32	16	41,40	1,630	-699YY

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
1 pair 2,08	14	14,96	0,589	-620YY
2 pair 2,08	14	19,86	0,782	-621YY
3 pair 2,08	14	20,78	0,818	-622YY
4 pair 2,08	14	23,39	0,921	-623YY
5 pair 2,08	14	25,07	0,987	-624YY
7 pair 2,08	14	27,91	1,099	-625YY
8 pair 2,08	14	29,72	1,170	-629YY
10 pair 2,08	14	33,83	1,332	-627YY
12 pair 2,08	14	34,75	1,368	-628YY
1 triad 0,97	18	14,25	0,561	-647YY
2 triads 0,97	18	20,45	0,805	-681YY
3 triads 0,97	18	22,48	0,885	-648YY
4 triads 0,97	18	24,10	0,949	-682YY
5 triads 0,97	18	25,88	1,019	-649YY
7 triads 0,97	18	28,80	1,134	-650YY
8 triads 0,97	18	30,68	1,208	-683YY
12 triads 0,97	18	35,97	1,416	-640YY
12 triads 1,0		38,99	1,535	-905YY
1 triad 1,32	16	14,81	0,583	-668YY
3 triads 1,32	16	23,67	0,932	-669YY
4 triads 1,32	16	25,43	1,001	-698YY
6 triads 1,32	16	30,43	1,198	-676YY
7 triads 1,32	16	30,43	1,198	-670YY
8 triads 1,32	16	33,32	1,312	-677YY
Collective Al/Mylar screen				
3 x 0,97	18	13,49	0,531	-630YY
4 x 0,97	18	14,22	0,560	-631YY
4 x 1,32	16	14,76	0,581	-632YY
Collective braid screen				
2 x 0,97	18	13,69	0,539	-633YY
4 x 0,97	18	14,86	0,585	-634YY
7 x 0,97	18	16,48	0,649	-635YY
12 x 0,97	18	19,71	0,776	-636YY
20 x 0,97	18	23,95	0,943	-637YY
2 x 2,08	14	14,91	0,587	-638YY
3 x 2,08	14	15,44	0,608	-639YY

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
5 x 2,08	14	17,30	0,681	-708YY
7 x 2,08	14	18,31	0,721	-709YY
14 x 2,08	14	24,13	0,950	-642YY
19 x 2,08	14	27,15	1,069	-643YY
30 x 2,08	14	31,95	1,258	-644YY

Number of cores x conductor cross-section		Overall diameter		Part Number
mm2	AWG	mm	inches	37-102-XXX
2 x 21,5 + 2 x2x 2,08 + 4 x 5,53 + 4 x 3,29 + 11 x 2,08	4 14 10 12 14	47,63	1,875	-580YY

Application/Limitation

Instrumentation and communication.

The cable may be installed and sized according to IEC 92-352, 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 - TP()(IS-OS)PCPEBS or TT()(IS-OS)PCPEBS or C()(OS)PCPEBS or C()(OBS)PCPEBS - Size - 0,6/1 kV

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