

# CKEPJ/SC Series,CKEPF/SC Series

150/250V

乙丙橡胶绝缘低烟无卤船用控制电缆

EPR insulated halogen-free low-smoke shipboard control cable

图例 Example:

CKEPJ85/SC  
19X2.5



型号: CKEPJ/SC  
Type: CKEPJ80/SC  
CKEPJ90/SC  
CKEPJ85/SC  
CKEPJ95/SC  
CKEPF/SC  
CKEPF80/SC  
CKEPF90/SC  
CKEPF86/SC  
CKEPF96/SC

## 用途 Application

船用控制电缆可用于河海各种船舶及海上石油平台等水上建筑的电力照明和一般控制装置之用。对冶金、化工、电力等工矿企业亦同样适用。

The cable is intended for control system of shipboard and off-shore building and it is also available to metallurgical industry, chemical works, power plant and mining factory.

## 执行标准 Standards applied

IEC 60092-376	- 设计	Design
IEC 60228 Class2	- 导体	Conductor
IEC 60092-351	- 绝缘	Insulation
IEC 60092-359	- 护套	Sheath
IEC 60332-3-22	- 阻燃	Flame Retardant
IEC 60754	- 无卤	Halogen Free
IEC 61034	- 低烟	Low Smoke

## 结构 Construction

组分 Components	代号 Code	材料/描述 Material/Description
系列代号 Series code	CK	船用控制电缆 Shipboard control cable
导体 Conductor		绞合镀锡退火铜, IEC 60228 Class 2 Stranded tinned annealed copper (STC), IEC 60228 Class 2
绝缘 Insulation	E	乙丙橡胶 EPR, IEC 60092-351
内护套 Inner sheath	PJ	无卤阻燃热固性材料 Halogen-free flame retardant thermoset compound (SHF2)
	PF	无卤阻燃热塑性材料 Halogen-free flame retardant thermoplastic compound (SHF1)
铠装 Armor	8	镀锡铜丝编织 Tinned copper wire braid (TCWB)
	9	镀锌钢丝编织 Galvanized steel wire braided (GSWB)
外护套 Outer sheath	0	无外护套 Without outer sheath
	5	无卤阻燃热固性材料 Halogen-free flame retardant thermoset compound (SHF2)
	6	无卤阻燃热塑性材料 Halogen-free flame retardant thermoplastic compound (SHF1)
外护套颜色 Outer sheath color		黑色(如有) Black, if any
燃烧特性 Flammability	SC	低烟无卤阻燃 LSHF Flame retardant, IEC60332-3-22(CAT.A)

CKEPJ/SC, CKEPF/SC

(CKEF/SA, CHEV/SA Series参照使用)

芯数x截面 No. of cores x sectional area	CKEPJ/SC, CKEPF/SC			CKEPJ80/SC, CKEPF80/SC CKEPJ90/SC, CKEPF90/SC				CKEPJ85/SC, CKEPF86/SC CKEPJ95/SC, CKEPF96/SC				
	外径		约重	外径		约重		外径		约重		
	Over diam. mm		Approx. weight	Over diam. mm		Approx. weight			Over diam. mm		Approx. weight	
	标称 Nom.	最大 Max.	weight kg/km	标称 Nom.	最大 Max.	80系列 kg/km	90系列 kg/km			标称 Nom.	最大 Max.	85系列 kg/km
No. x mm <sup>2</sup>												
2 x 0.75	7.8	8.9	66	8.9	10.0	113	108	10.8	12.0	152	146	
3 x 0.75	8.2	9.4	82	9.3	10.5	133	127	11.3	12.5	173	167	
4 x 0.75	9.1	10.5	104	10.2	11.5	161	154	12.2	13.5	205	198	
5 x 0.75	9.8	11.5	123	10.9	12.5	184	177	12.9	14.5	231	224	
7 x 0.75	10.6	12.0	155	12.2	13.5	254	242	14.3	16.0	307	296	
10 x 0.75	13.4	15.0	220	15.0	16.5	344	330	17.2	19.0	412	398	
12 x 0.75	13.8	16.0	250	15.4	17.5	379	365	17.7	19.5	449	435	
14 x 0.75	14.7	16.5	289	16.3	18.0	427	412	18.6	20.5	502	487	
16 x 0.75	15.4	17.5	322	17.0	19.0	468	452	19.3	21.5	545	529	
19 x 0.75	16.2	18.5	370	17.8	20.0	524	507	20.2	22.5	606	589	
24 x 0.75	19.0	21.5	467	20.6	23.0	648	629	23.1	25.5	747	728	
27 x 0.75	19.6	22.0	520	21.2	23.5	709	689	23.8	26.0	811	791	
30 x 0.75	20.3	22.5	568	21.9	24.0	765	744	24.5	27.0	870	849	
33 x 0.75	21.0	23.5	615	22.6	25.0	820	799	25.2	27.5	929	907	
37 x 0.75	21.8	24.5	677	23.4	26.0	892	869	26.1	28.5	1004	982	
2 x 1	8.2	9.4	75	9.3	10.5	125	119	11.3	12.5	166	160	
3 x 1	8.8	10.0	98	9.9	11.5	153	147	11.9	13.0	195	189	
4 x 1	9.6	11.0	121	10.7	12.0	180	174	12.7	14.0	227	220	
5 x 1	10.4	12.0	143	12.0	13.5	239	228	14.1	15.5	292	281	
7 x 1	11.2	13.0	182	12.8	14.5	287	275	14.9	16.5	342	331	
10 x 1	14.4	16.0	264	16.0	18.0	399	384	18.3	20.0	473	458	
12 x 1	14.8	16.5	302	16.4	18.5	441	426	18.7	20.5	516	500	
14 x 1	15.5	17.5	341	17.1	19.0	488	472	19.4	21.5	566	550	
16 x 1	16.4	18.5	382	18.0	20.0	538	521	20.4	22.5	621	604	
19 x 1	17.4	19.5	447	19.0	21.0	615	597	21.4	23.5	702	684	
24 x 1	20.4	22.5	564	22.0	24.5	762	741	24.6	27.0	868	847	
27 x 1	20.8	23.0	618	22.4	24.5	822	801	25.0	27.5	929	907	
30 x 1	21.5	24.0	676	23.1	25.5	888	866	25.7	28.5	998	975	
33 x 1	22.6	25.0	745	24.2	26.5	969	946	26.9	29.5	1086	1063	
37 x 1	23.4	26.0	820	25.0	27.5	1055	1031	27.7	30.5	1175	1151	
2 x 1.5	9.2	10.5	96	10.3	11.5	153	147	12.3	13.5	198	192	
3 x 1.5	9.7	11.0	123	10.8	12.0	184	177	12.8	14.0	230	224	
4 x 1.5	10.5	12.0	152	12.1	13.5	249	238	14.2	15.5	302	291	
5 x 1.5	11.6	13.0	186	13.2	14.5	294	282	15.4	17.0	353	341	
7 x 1.5	12.6	14.0	240	14.2	16.0	359	346	16.4	18.0	421	408	
10 x 1.5	16.0	18.0	340	17.6	19.5	491	474	20.0	22.0	573	556	
12 x 1.5	16.5	18.5	391	18.1	20.0	548	531	20.5	22.5	631	614	
14 x 1.5	17.5	19.5	451	19.1	21.0	620	602	21.5	23.5	708	690	
16 x 1.5	18.4	20.5	505	20.0	22.0	684	665	22.5	24.5	776	757	
19 x 1.5	19.6	22.0	593	21.2	23.5	785	765	23.8	26.0	883	863	
24 x 1.5	23.0	25.5	747	24.6	27.0	975	951	27.3	30.0	1095	1071	
27 x 1.5	23.5	26.0	822	25.1	27.5	1058	1034	27.8	30.5	1178	1154	
30 x 1.5	24.3	27.0	899	25.9	28.5	1145	1120	28.7	31.5	1270	1245	
33 x 1.5	25.4	28.0	989	27.0	29.5	1249	1223	29.8	32.5	1379	1353	
37 x 1.5	26.4	29.0	1092	28.0	30.5	1365	1338	30.9	33.5	1500	1473	
2 x 2.5	10.0	11.5	125	11.1	12.5	187	180	13.1	14.5	236	229	
3 x 2.5	10.6	12.0	164	12.2	13.5	263	252	14.3	15.5	316	305	
4 x 2.5	11.7	13.0	211	13.3	15.0	320	308	15.5	17.0	379	366	
5 x 2.5	12.7	14.5	253	14.3	16.0	373	359	16.5	18.0	435	422	
7 x 2.5	13.8	15.5	331	15.4	17.0	464	449	17.7	19.5	530	516	
10 x 2.5	17.8	20.0	477	19.4	21.5	650	632	21.9	24.0	739	721	
12 x 2.5	18.4	20.5	553	20.0	22.0	734	715	22.5	24.5	824	805	
14 x 2.5	19.3	21.5	630	20.9	23.0	822	803	23.4	25.5	916	896	
16 x 2.5	20.5	22.5	718	22.1	24.5	924	903	24.7	27.0	1023	1002	
19 x 2.5	21.6	24.0	833	23.2	25.5	1054	1031	25.9	28.5	1157	1135	
24 x 2.5	25.6	28.0	1062	27.2	29.5	1327	1301	30.1	32.5	1456	1430	
27 x 2.5	26.1	29.0	1172	27.7	30.5	1447	1420	30.6	33.5	1575	1548	
30 x 2.5	27.1	30.0	1287	28.7	31.5	1575	1548	31.6	34.5	1708	1680	
33 x 2.5	28.3	31.0	1415	29.9	32.5	1719	1691	32.9	35.5	1858	1829	
37 x 2.5	29.4	32.5	1567	31.0	34.0	1887	1858	34.0	37.0	2030	2000	

注: 上述参数仅供参考, 如需采用须经我司技术部门确认。上述任何参数修改恕不另行通知。

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150/250V

乙丙橡胶绝缘低烟无卤船用控制电缆

EPR insulated halogen-free low-smoke shipboard control cable

图例 Example:

CKEFPF86/SC  
19X2.5



型号: CKEJP/SC  
Type: CKEJP80/SC  
CKEJP90/SC  
CKEJP85/SC  
CKEJP95/SC  
CKEFPF/SC  
CKEFPF80/SC  
CKEFPF90/SC  
CKEFPF86/SC  
CKEFPF96/SC

## 用途 Application

船用控制电缆可用于河海各种船舶及海上石油平台等水上建筑的电力照明和一般控制装置之用。对冶金、化工、电力等工矿企业亦同样适用。

The cable is intended for control system of shipboard and off-shore building and it is also available to metallurgical industry, chemical works, power plant and mining factory.

## 执行标准 Standards applied

- |                  |      |                 |
|------------------|------|-----------------|
| IEC 60092-376    | - 设计 | Design          |
| IEC 60228 Class2 | - 导体 | Conductor       |
| IEC 60092-351    | - 绝缘 | Insulation      |
| IEC 60092-359    | - 护套 | Sheath          |
| IEC 60332-3-22   | - 阻燃 | Flame Retardant |
| IEC 60754        | - 无卤 | Halogen Free    |
| IEC 61034        | - 低烟 | Low Smoke       |

## 结构 Construction

组分 Components	代号 Code	材料/描述 Material/Description
系列代号 Series code	CK	船用控制电缆 Shipboard control cable
导体 Conductor		绞合镀锡退火铜, IEC 60228 Class 2 Stranded tinned annealed copper (STC), IEC 60228 Class 2
绝缘 Insulation	E	乙丙橡胶 EPR, IEC 60092-351
内护套 Inner sheath	PJ	无卤阻燃热固性材料 Halogen-free flame retardant thermoset compound (SHF2)
	PF	无卤阻燃热塑性材料 Halogen-free flame retardant thermoplastic compound (SHF1)
单芯屏蔽 Individual screen	P	镀锡铜丝编织 Tinned copper wire braided
铠装 Armor	8	镀锡铜丝编织 Tinned copper wire braid (TCWB)
	9	镀锌钢丝编织 Galvanized steel wire braided (GSWB)
外护套 Outer sheath	0	无外护套 Without outer sheath
	5	无卤阻燃热固性材料 Halogen-free flame retardant thermoset compound (SHF2)
	6	无卤阻燃热塑性材料 Halogen-free flame retardant thermoplastic compound (SHF1)
外护套颜色 Outer sheath color		黑色(如有) Black, if any
燃烧特性 Flammability	SC	低烟无卤阻燃 LSHF Flame retardant, IEC60332-3-22(CAT.A)

**CKEPJP/SC, CKEPFP/SC (CKEFP/SA, CHEVP/SA Series参照使用)**

芯数x截面 No. of cores x sectional area	CKEPJP/SC, CKEPFP/SC			CKEPJP80/SC, CKEPFP80/SC CKEPJP90/SC, CKEPFP90/SC				CKEPJP85/SC, CKEPFP86/SC CKEPJP95/SC, CKEPFP96/SC			
	外径 Over diam. mm		约重 Approx. weight	外径 Over diam. mm		约重 Approx. weight		外径 Over diam. mm		约重 Approx. weight	
	标称 Nom.	最大 Max.	kg/km	标称 Nom.	最大 Max.	80系列 kg/km	90系列 kg/km	标称 Nom.	最大 Max.	85系列 kg/km	95系列 kg/km
	No. x mm <sup>2</sup>										
2 x 0.75	9.6	11.0	104	10.7	12.0	163	156	12.7	14.0	210	203
3 x 0.75	10.1	11.5	133	11.7	13.0	226	215	13.8	15.0	277	267
4 x 0.75	11.0	12.5	164	12.6	14.5	266	254	14.7	16.5	322	310
5 x 0.75	12.2	14.0	202	13.8	15.5	315	303	16.0	17.5	377	364
7 x 0.75	13.2	15.0	260	14.8	16.5	385	371	17.0	18.5	450	436
10 x 0.75	17.0	19.0	376	18.6	20.5	537	520	21.0	23.0	625	607
12 x 0.75	17.5	19.5	432	19.1	21.0	600	582	21.5	23.5	688	670
14 x 0.75	18.4	20.5	490	20.0	22.0	668	649	22.5	24.5	761	742
16 x 0.75	19.6	22.0	559	21.2	23.5	750	730	23.8	26.0	850	829
19 x 0.75	20.6	23.0	644	22.2	24.5	848	827	24.8	27.0	951	930
24 x 0.75	24.2	27.0	812	25.8	28.5	1053	1029	28.6	31.5	1181	1157
27 x 0.75	24.7	27.5	894	26.3	29.0	1143	1118	29.1	32.0	1272	1246
30 x 0.75	25.8	28.5	991	27.4	30.0	1254	1228	30.3	33.0	1389	1362
33 x 0.75	26.8	29.5	1078	28.4	31.5	1353	1325	31.3	34.5	1493	1465
37 x 0.75	28.0	31.0	1203	29.6	32.5	1494	1465	32.6	35.5	1640	1612
2 x 1	9.8	11.0	112	10.9	12.0	173	166	12.9	14.0	220	214
3 x 1	10.4	12.0	145	12.0	13.5	242	231	14.1	15.5	294	283
4 x 1	11.5	13.0	186	13.1	14.5	293	281	15.2	16.5	351	338
5 x 1	12.5	14.0	222	14.1	15.5	339	326	16.3	18.0	402	389
7 x 1	13.5	15.0	288	15.1	16.5	416	402	17.3	19.0	482	468
10 x 1	17.4	19.5	416	19.0	21.0	582	564	21.4	23.5	671	653
12 x 1	18.0	20.0	480	19.6	21.5	654	635	22.1	24.0	744	726
14 x 1	18.8	21.0	545	20.4	22.5	729	709	22.9	25.0	822	803
16 x 1	20.1	22.0	621	21.7	24.0	819	799	24.3	26.5	920	899
19 x 1	21.1	23.5	718	22.7	25.0	929	907	25.3	27.5	1033	1011
24 x 1	25.0	27.5	917	26.6	29.0	1169	1144	29.4	32.0	1299	1274
27 x 1	25.5	28.0	1009	27.1	29.5	1271	1245	29.9	32.5	1401	1375
30 x 1	26.4	29.0	1106	28.0	30.5	1379	1352	30.9	33.5	1514	1487
33 x 1	27.7	30.5	1217	29.3	32.0	1506	1478	32.3	35.0	1649	1621
37 x 1	28.7	31.5	1344	30.3	33.0	1648	1619	33.3	36.0	1795	1765
2 x 1.5	10.6	12.0	133	12.2	13.5	230	219	14.3	15.5	285	274
3 x 1.5	11.2	13.0	174	12.8	14.5	278	266	14.9	16.5	334	323
4 x 1.5	12.4	14.0	223	14.0	15.5	340	327	16.2	18.0	402	389
5 x 1.5	13.5	15.0	268	15.1	16.5	396	382	17.3	19.0	463	448
7 x 1.5	14.9	16.5	358	16.5	18.0	501	485	18.8	20.5	574	558
10 x 1.5	19.0	21.0	507	20.6	23.0	691	671	23.1	25.5	788	768
12 x 1.5	19.8	22.0	595	21.4	23.5	790	769	24.0	26.0	889	869
14 x 1.5	20.8	23.0	678	22.4	24.5	885	863	25.0	27.0	988	967
16 x 1.5	21.9	24.5	762	23.5	26.0	982	959	26.2	28.5	1091	1068
19 x 1.5	23.3	25.5	894	24.9	27.0	1132	1108	27.6	30.0	1247	1223
24 x 1.5	27.4	30.5	1127	29.0	32.0	1410	1382	31.9	35.0	1553	1525
27 x 1.5	28.2	31.0	1257	29.8	32.5	1553	1524	32.8	35.5	1698	1670
30 x 1.5	29.2	32.0	1379	30.8	33.5	1688	1659	33.8	36.5	1838	1808
33 x 1.5	30.5	33.5	1515	32.6	35.5	1928	1886	35.7	38.5	2091	2049
37 x 1.5	31.7	34.5	1676	33.8	37.0	2110	2067	37.0	40.0	2278	2235
2 x 2.5	11.8	13.0	173	13.4	15.0	282	269	15.6	17.0	342	330
3 x 2.5	12.5	14.0	229	14.1	15.5	346	333	16.3	18.0	409	396
4 x 2.5	13.6	15.0	288	15.2	17.0	417	403	17.5	19.0	484	470
5 x 2.5	15.1	17.0	355	16.7	18.5	500	484	19.0	20.5	574	558
7 x 2.5	16.4	18.5	467	18.0	20.0	628	611	20.4	22.5	707	690
10 x 2.5	21.2	23.5	673	22.8	25.0	883	861	25.4	27.5	990	968
12 x 2.5	21.9	24.5	782	23.5	26.0	1002	980	26.2	28.5	1111	1088
14 x 2.5	23.2	25.5	904	24.8	27.0	1141	1118	27.5	30.0	1255	1231
16 x 2.5	24.5	27.0	1018	26.1	28.5	1272	1247	28.9	31.5	1392	1367
19 x 2.5	26.0	28.5	1195	27.6	30.0	1470	1443	30.5	33.0	1596	1570
24 x 2.5	30.8	33.5	1521	32.9	35.5	1937	1895	36.0	39.0	2103	2060
27 x 2.5	31.5	34.5	1682	33.6	36.5	2114	2071	36.8	39.5	2280	2237
30 x 2.5	32.6	35.5	1847	34.7	38.0	2299	2255	37.9	41.0	2469	2424
33 x 2.5	34.1	37.0	2030	36.2	39.5	2507	2461	39.5	42.5	2686	2639
37 x 2.5	35.4	39.0	2249	37.5	41.0	2751	2703	40.9	44.5	2935	2887

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150/250V

乙丙橡胶绝缘低烟无卤船用控制电缆

EPR insulated halogen-free low-smoke shipboard control cable

图例 **Example:**

**CKEPJ85/NC**  
**19X2.5**



型号: **CKEPJ/NC**  
Type: **CKEPJ80/NC**  
**CKEPJ90/NC**  
**CKEPJ85/NC**  
**CKEPJ95/NC**  
**CKEPF/NC**  
**CKEPF80/NC**  
**CKEPF90/NC**  
**CKEPF86/NC**  
**CKEPF96/NC**

## 用途 Application

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IEC 60228 Class2	- 导体	Conductor
IEC 60092-351	- 绝缘	Insulation
IEC 60092-359	- 护套	Sheath
IEC 60331	- 耐火	Fire Resistant
IEC 60332-3-22	- 阻燃	Flame Retardant
<b>IEC 60754</b>	- 无卤	Halogen Free
IEC 61034	- 低烟	Low Smoke

## 结构 Construction

组分 Components	代号 Code	材料/描述 Material/Description
系列代号 Series code	CK	船用控制电缆 Shipboard control cable
导体 Conductor		绞合镀锡退火铜, IEC 60228 Class 2 Stranded tinned annealed copper (STC), IEC 60228 Class 2
绝缘 Insulation	E	耐火云母带+乙丙橡胶 Mica glass tape + EPR, IEC 60092-351
内护套 Inner sheath	PJ	无卤阻燃热固性材料 Halogen-free flame retardant thermoset compound (SHF2)
	PF	无卤阻燃热塑性材料 Halogen-free flame retardant thermoplastic compound (SHF1)
铠装 Armor	8	镀锡铜丝编织 Tinned copper wire braided (TCWB)
	9	镀锌钢丝编织 Galvanized steel wire braided (GSWB)
外护套 Outer sheath	0	无外护套 Without outer sheath
	5	无卤阻燃热固性材料 Halogen-free flame retardant thermoset compound (SHF2)
	6	无卤阻燃热塑性材料 Halogen-free flame retardant thermoplastic compound (SHF1)
外护套颜色 Outer sheath color		黑色(如有) Black, if any
燃烧特性 Flammability	NC	低烟无卤耐火 LSHF Fire resistant, IEC60331

CKEPJ/NC, CKEPF/NC

(CKEF/NA, CHEV/NA Series参照使用)

芯数x截面 No. of cores x sectional area	CKEPJ/NC, CKEPF/NC			CKEPJ80/NC, CKEPF80/NC CKEPJ90/NC, CKEPF90/NC				CKEPJ85/NC, CKEPF86/NC CKEPJ95/NC, CKEPF96/NC				
	外径		约重	外径		约重		外径		约重		
	Over diam. mm		Approx. weight	Over diam. mm		Approx. weight			Over diam. mm		Approx. weight	
	标称 Nom.	最大 Max.	kg/km	标称 Nom.	最大 Max.	80系列 kg/km	90系列 kg/km			标称 Nom.	最大 Max.	85系列 kg/km
No. x mm <sup>2</sup>												
2 x 0.75	9.2	10.5	85	10.3	11.5	141	135	12.3	13.5	187	181	
3 x 0.75	9.7	11.0	107	10.8	12.0	166	160	12.8	14.0	214	207	
4 x 0.75	10.5	12.0	130	12.1	13.5	226	215	14.2	15.5	280	269	
5 x 0.75	11.6	13.0	159	13.2	14.5	265	253	15.4	17.0	325	313	
7 x 0.75	12.6	14.0	201	14.2	16.0	318	305	16.4	18.0	382	369	
10 x 0.75	16.0	18.0	284	17.6	19.5	433	416	20.0	22.0	517	501	
12 x 0.75	16.5	18.5	324	18.1	20.0	478	461	20.5	22.5	565	548	
14 x 0.75	17.5	19.5	374	19.1	21.0	539	521	21.5	23.5	630	612	
16 x 0.75	18.4	20.5	417	20.0	22.0	591	572	22.5	24.5	688	669	
19 x 0.75	19.6	22.0	487	21.2	23.5	675	655	23.8	26.0	778	758	
24 x 0.75	23.0	25.5	614	24.6	27.0	835	812	27.3	30.0	962	938	
27 x 0.75	23.5	26.0	672	25.1	27.5	900	876	27.8	30.5	1028	1004	
30 x 0.75	24.3	27.0	733	25.9	28.5	971	946	28.7	31.5	1104	1079	
33 x 0.75	25.4	28.0	806	27.0	29.5	1057	1031	29.8	32.5	1196	1170	
37 x 0.75	26.4	29.0	887	28.0	30.5	1150	1123	30.9	33.5	1295	1268	
2 x 1	9.6	11.0	95	10.7	12.0	154	147	12.7	14.0	201	194	
3 x 1	10.1	11.5	120	11.7	13.0	212	201	13.8	15.0	265	254	
4 x 1	11.0	12.5	147	12.6	14.5	248	236	14.7	16.5	305	293	
5 x 1	12.2	14.0	180	13.8	15.5	293	280	16.0	17.5	356	343	
7 x 1	13.2	15.0	230	14.8	16.5	353	340	17.0	18.5	420	406	
10 x 1	17.0	19.0	334	18.6	20.5	492	475	21.0	23.0	582	564	
12 x 1	17.5	19.5	381	19.1	21.0	546	528	21.5	23.5	637	619	
14 x 1	18.4	20.5	431	20.0	22.0	606	587	22.5	24.5	702	683	
16 x 1	19.6	22.0	490	21.2	23.5	678	658	23.8	26.0	781	761	
19 x 1	20.6	23.0	563	22.2	24.5	762	741	24.8	27.0	870	849	
24 x 1	24.2	27.0	710	25.8	28.5	945	921	28.6	31.5	1079	1054	
27 x 1	24.7	27.5	779	26.3	29.0	1022	997	29.1	32.0	1156	1131	
30 x 1	25.8	28.5	863	27.4	30.0	1119	1093	30.3	33.0	1260	1234	
33 x 1	26.8	29.5	936	28.4	31.5	1205	1177	31.3	34.5	1352	1324	
37 x 1	28.0	31.0	1044	29.6	32.5	1328	1299	32.6	35.5	1482	1453	
2 x 1.5	10.4	12.0	114	12.0	13.5	209	198	14.1	15.5	263	252	
3 x 1.5	11.0	12.5	146	12.6	14.0	247	236	14.7	16.0	304	292	
4 x 1.5	12.2	13.5	187	13.8	15.0	299	287	16.0	17.5	362	349	
5 x 1.5	13.3	15.0	223	14.9	16.5	346	332	17.1	18.5	414	400	
7 x 1.5	14.6	16.5	294	16.2	18.0	431	416	18.5	20.0	505	490	
10 x 1.5	18.6	20.5	415	20.2	22.0	591	572	22.7	24.5	690	670	
12 x 1.5	19.2	21.5	477	20.8	23.0	661	641	23.3	25.5	761	741	
14 x 1.5	20.4	22.5	551	22.0	24.0	748	727	24.6	26.5	855	834	
16 x 1.5	21.5	23.5	617	23.1	25.0	826	804	25.7	28.0	939	917	
19 x 1.5	22.8	25.0	722	24.4	26.5	947	923	27.1	29.5	1066	1043	
24 x 1.5	26.8	29.5	909	28.4	31.0	1176	1149	31.3	34.0	1325	1297	
27 x 1.5	27.4	30.5	1000	29.0	32.0	1276	1248	31.9	35.0	1426	1398	
30 x 1.5	28.6	31.5	1108	30.2	33.0	1399	1370	33.2	36.0	1556	1527	
33 x 1.5	29.7	32.5	1204	31.3	34.0	1509	1478	34.4	37.5	1673	1643	
37 x 1.5	31.0	34.0	1342	33.1	36.0	1752	1709	36.2	39.0	1928	1886	
2 x 2.5	11.2	13.0	144	12.8	14.5	246	235	14.9	16.5	304	292	
3 x 2.5	12.1	13.5	195	13.7	15.0	307	294	15.9	17.5	368	356	
4 x 2.5	13.2	14.5	243	14.8	16.5	367	353	17.0	18.5	433	419	
5 x 2.5	14.5	16.0	298	16.1	18.0	435	420	18.4	20.0	507	492	
7 x 2.5	15.8	17.5	389	17.4	19.0	541	524	19.8	21.5	619	602	
10 x 2.5	20.4	22.5	561	22.0	24.0	758	737	24.6	26.5	864	843	
12 x 2.5	21.1	23.0	648	22.7	25.0	856	834	25.3	27.5	963	942	
14 x 2.5	22.3	24.5	748	23.9	26.0	970	947	26.6	29.0	1084	1061	
16 x 2.5	23.5	26.0	840	25.1	27.5	1076	1052	27.8	30.0	1196	1172	
19 x 2.5	25.0	27.5	985	26.6	29.0	1241	1215	29.4	32.0	1368	1342	
24 x 2.5	29.4	32.0	1241	31.0	33.5	1545	1515	34.0	37.0	1704	1674	
27 x 2.5	30.0	33.0	1369	31.6	34.5	1684	1654	34.7	37.5	1844	1813	
30 x 2.5	31.3	34.0	1516	33.4	36.5	1938	1895	36.6	39.5	2109	2067	
33 x 2.5	32.5	35.5	1650	34.6	38.0	2092	2047	37.8	41.0	2270	2226	
37 x 2.5	34.0	37.0	1842	36.1	39.0	2309	2263	39.4	42.5	2496	2449	

注: 上述参数仅供参考, 如需采用须经我司技术部门确认。上述任何参数修改恕不另行通知。

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# CKEJP/NC Series,CKEFP/NC Series

150/250V

乙丙橡胶绝缘低烟无卤船用控制电缆

**EPR insulated halogen-free low-smoke shipboard control cable**

图例 **Example:**

**CKEFP86/NC  
19X2.5**



- 型号: **CKEJP/NC**  
 Type: **CKEJP80/NC**  
**CKEJP90/NC**  
**CKEJP85/NC**  
**CKEJP95/NC**  
**CKEFP/NC**  
**CKEFP80/NC**  
**CKEFP90/NC**  
**CKEFP86/NC**  
**CKEFP96/NC**

## 用途 Application

船用控制电缆可用于河海各种船舶及海上石油平台等水上建筑的电力照明和一般控制装置之用。对冶金、化工、电力等工矿企业亦同样适用。

The cable is intended for control system of shipboard and off-shore building and it is also available to metallurgical industry, chemical works, power plant and mining factory.

## 执行标准 Standards applied

- |                  |      |                 |
|------------------|------|-----------------|
| IEC 60092-376    | - 设计 | Design          |
| IEC 60228 Class2 | - 导体 | Conductor       |
| IEC 60092-351    | - 绝缘 | Insulation      |
| IEC 60092-359    | - 护套 | Sheath          |
| IEC 60331        | - 耐火 | Fire Resistant  |
| IEC 60332-3-22   | - 阻燃 | Flame Retardant |
| IEC 60754        | - 无卤 | Halogen Free    |
| IEC 61034        | - 低烟 | Low Smoke       |

## 结构 Construction

组分 Components	代号 Code	材料/描述 Material/Description
系列代号 Series code	CK	船用控制电缆 Shipboard control cable
导体 Conductor		绞合镀锡退火铜, IEC 60228 Class 2 Stranded tinned annealed copper (STC), IEC 60228 Class 2
绝缘 Insulation	E	耐火云母带+乙丙橡胶 Mica glass tape + EPR, IEC 60092-351
内护套 Inner sheath	PJ	无卤阻燃热固性材料 Halogen-free flame retardant thermoset compound (SHF2)
	PF	无卤阻燃热塑性材料 Halogen-free flame retardant thermoplastic compound (SHF1)
单芯屏蔽 Individual screen	P	镀锡铜丝编织 Tinned copper wire braided
铠装 Armor	8	镀锡铜丝编织 Tinned copper wire braid (TCWB)
	9	镀锌钢丝编织 Galvanized steel wire braided (GSWB)
外护套 Outer sheath	0	无外护套 Without outer sheath
	5	无卤阻燃热固性材料 Halogen-free flame retardant thermoset compound (SHF2)
	6	无卤阻燃热塑性材料 Halogen-free flame retardant thermoplastic compound (SHF1)
外护套颜色 Outer sheath color		黑色(如有) Black, if any
燃烧特性 Flammability	NC	低烟无卤耐火 LSHF Fire resistant, IEC60331

CKEPJP/NC, CKEPFP/NC

(CKEFP/NA, CHEVP/NA Series参照使用)

芯数x截面 No. of cores x sectional area	CKEJP/NC, CKEPFP/NC			CKEJP80/NC, CKEPFP80/NC CKEJP90/NC, CKEPFP90/NC				CKEJP85/NC, CKEPFP86/NC CKEJP95/NC, CKEPFP96/NC			
	外径		约重	外径		约重		外径		约重	
	Over diam. mm		Approx. weight	Over diam. mm		Approx. weight		Over diam. mm		Approx. weight	
	标称 Nom.	最大 Max.	weight kg/km	标称 Nom.	最大 Max.	80系列 kg/km	90系列 kg/km	标称 Nom.	最大 Max.	85系列 kg/km	95系列 kg/km
No. x mm <sup>2</sup>											
2 x 0.75	10.8	12.0	132	12.4	14.0	231	219	14.5	16.0	287	275
3 x 0.75	11.6	13.0	177	13.2	14.5	284	272	15.4	17.0	344	331
4 x 0.75	12.7	14.0	221	14.3	16.0	339	326	16.5	18.0	403	390
5 x 0.75	13.8	15.5	264	15.4	17.0	394	380	17.7	19.5	464	449
7 x 0.75	15.2	17.0	352	16.8	18.5	497	481	19.1	21.0	572	556
10 x 0.75	19.6	21.5	507	21.2	23.0	696	675	23.8	26.0	798	778
12 x 0.75	20.2	22.5	584	21.8	24.0	781	761	24.4	26.5	885	864
14 x 0.75	21.2	23.5	665	22.8	25.0	874	852	25.4	27.5	982	960
16 x 0.75	22.6	25.0	757	24.2	26.5	982	959	26.9	29.0	1098	1075
19 x 0.75	23.8	26.0	876	25.4	27.5	1117	1092	28.2	30.5	1238	1213
24 x 0.75	28.2	31.0	1117	29.8	32.5	1405	1376	32.8	35.5	1558	1529
27 x 0.75	28.8	31.5	1231	30.4	33.0	1530	1500	33.4	36.0	1683	1653
30 x 0.75	29.8	33.0	1349	31.4	34.5	1662	1631	34.5	37.5	1820	1789
33 x 0.75	31.2	34.0	1483	33.3	36.0	1902	1859	36.5	39.5	2074	2031
37 x 0.75	32.4	35.5	1639	34.5	37.5	2079	2034	37.7	41.0	2257	2212
2 x 1	11.0	12.5	141	12.6	14.0	241	230	14.7	16.0	298	287
3 x 1	11.9	13.5	190	13.5	15.0	301	289	15.7	17.0	361	349
4 x 1	12.9	14.5	237	14.5	16.0	358	345	16.7	18.5	423	409
5 x 1	14.3	16.0	292	15.9	17.5	427	412	18.2	19.5	498	484
7 x 1	15.5	17.0	380	17.1	19.0	529	513	19.4	21.0	605	589
10 x 1	20.0	22.0	548	21.6	23.5	742	721	24.2	26.0	846	825
12 x 1	20.7	23.0	634	22.3	24.5	837	816	24.9	27.0	943	921
14 x 1	21.7	24.0	722	23.3	25.5	938	916	26.0	28.5	1048	1025
16 x 1	23.1	25.5	822	24.7	27.0	1054	1031	27.4	29.5	1171	1148
19 x 1	24.3	27.0	952	25.9	28.5	1201	1176	28.7	31.5	1323	1298
24 x 1	28.8	31.5	1213	30.4	33.0	1512	1482	33.4	36.0	1665	1636
27 x 1	29.4	32.0	1339	31.0	33.5	1648	1618	34.0	37.0	1802	1772
30 x 1	30.7	33.5	1483	32.8	35.5	1896	1854	35.9	39.0	2063	2021
33 x 1	31.9	35.0	1615	34.0	37.0	2048	2004	37.2	40.0	2221	2178
37 x 1	33.3	36.5	1802	35.4	38.5	2259	2214	38.7	42.0	2440	2394
2 x 1.5	12.0	13.5	169	13.6	15.0	279	266	15.8	17.0	341	328
3 x 1.5	12.7	14.0	222	14.3	16.0	340	327	16.5	18.0	404	391
4 x 1.5	13.9	15.5	278	15.5	17.0	410	395	17.8	19.5	479	465
5 x 1.5	15.4	17.0	343	17.0	18.5	489	473	19.3	21.0	566	550
7 x 1.5	16.9	18.5	457	18.5	20.5	621	604	20.9	22.5	704	686
10 x 1.5	21.6	24.0	647	23.2	25.5	859	837	25.9	28.0	972	949
12 x 1.5	22.5	24.5	760	24.1	26.5	985	962	26.8	29.0	1100	1077
14 x 1.5	23.6	26.0	867	25.2	27.5	1106	1082	28.0	30.5	1226	1201
16 x 1.5	25.2	27.5	988	26.8	29.0	1245	1220	29.6	32.0	1374	1348
19 x 1.5	26.5	29.0	1145	28.1	30.5	1421	1394	31.0	33.5	1555	1528
24 x 1.5	31.4	34.0	1457	33.5	36.5	1877	1834	36.7	39.5	2053	2010
27 x 1.5	32.1	35.0	1610	34.2	37.0	2044	2001	37.4	40.5	2220	2177
30 x 1.5	33.4	36.5	1781	35.5	38.5	2239	2193	38.8	42.0	2422	2376
33 x 1.5	34.8	38.0	1942	36.9	40.0	2422	2375	40.2	43.5	2613	2566
37 x 1.5	36.3	39.5	2166	38.4	41.5	2674	2624	41.8	45.0	2872	2823
2 x 2.5	13.0	14.5	205	14.6	16.0	325	311	16.8	18.5	392	378
3 x 2.5	13.8	15.5	274	15.4	17.0	404	389	17.7	19.5	473	458
4 x 2.5	15.3	17.0	353	16.9	18.5	499	483	19.2	21.0	575	559
5 x 2.5	16.9	18.5	434	18.5	20.5	597	580	20.9	22.5	681	663
7 x 2.5	18.4	20.5	572	20.0	22.0	754	735	22.5	24.5	843	824
10 x 2.5	23.8	26.0	823	25.4	27.5	1061	1037	28.2	30.5	1185	1160
12 x 2.5	24.6	27.0	956	26.2	28.5	1208	1182	29.0	31.5	1332	1307
14 x 2.5	26.1	28.5	1106	27.7	30.0	1377	1350	30.6	33.0	1509	1482
16 x 2.5	27.7	30.5	1258	29.3	32.0	1549	1521	32.3	35.0	1690	1662
19 x 2.5	29.2	32.0	1462	30.8	33.5	1776	1746	33.8	36.5	1922	1892
24 x 2.5	34.6	37.5	1858	36.7	39.5	2332	2285	40.0	43.0	2525	2478
27 x 2.5	35.4	38.5	2056	37.5	41.0	2549	2501	40.9	44.0	2742	2694
30 x 2.5	36.9	40.0	2277	39.0	42.0	2797	2746	42.4	45.5	2997	2947
33 x 2.5	38.5	42.0	2500	40.6	44.0	3048	2996	44.1	47.5	3257	3205
37 x 2.5	40.0	43.5	2770	42.1	45.5	3348	3293	45.7	49.0	3564	3509

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