

Cross-linked polyethylene insulated low smoke halogen free medium voltage marine power cables

Components	Code	Material/Description
Series code	C	Shipboard power cable
Conductor		IEC 60228 Class 2
Conductor screen		Extruded semiconductive layer
Insulation	J	XLPE,IEC 60092-360(XLPE)
Insulation screen		Extruded semiconductive layer and having copper tape over it
Laying up		Cores are laid up together and are identified by printed numbers
Inner sheath	PJ	Halogen-free flame retardant thermoset compound (SHF2)
	PF	Halogen-free flame retardant thermoplastic compound (SHF1)
Armor/screen	8	Tinned copper wire braid (TCWB)
	9	Galvanized steel wire braided (GSWB)
Outer sheath	5	Halogen-free flame retardant thermoset compound (SHF2)
	6	Halogen-free flame retardant thermoplastic compound (SHF1)
Outer sheath color		Red
Flammability	SC	LSHF Flame retardant,IEC60332-3-22(CATA)

CJPJ85/SC , CJPJ95/SC , CJPJ86/SC , CJPJ96/SC 3.6/6 (7.2) kV

No. of cores & Cross section	Overall diameter		Approx. weight	
	Nominal value	Maximum value	CJPJ85/SC	CJPJ95/SC
mm ²	mm		kg/km	
1×10	19.2	21.0	630	615
1×16	20.9	23.0	750	734
1×25	22.7	25.0	900	882
1×35	25.7	28.0	1050	1029
1×50	27.1	29.5	1230	1208
1×70	29.2	31.5	1510	1486
1×95	31.4	33.5	1840	1814
1×120	33.8	36.0	2170	2142
1×150	34.7	37.5	2490	2461
1×185	37.6	40.5	3040	3009
1×240	40.2	43.0	3710	3677
1×300	43.2	46.0	4430	4394
3×10	35.4	38.0	2540	2511
3×16	44.8	47.5	2900	2863
3×25	48.1	51.0	3470	3430
3×35	50.9	54.0	4050	4007
3×50	54.3	57.5	4720	4674
3×70	58.7	62.0	5800	5750
3×95	63.2	67.0	7050	6996
3×120	67.3	71.0	8230	8173
3×150	69.9	73.5	9460	9400
3×185	75.8	80.0	10630	10565
3×25+1×16	48.1	51.0	3960	3920
3×35+1×25	51.8	55.0	4740	4696
3×50+1×25	54.7	58.0	5410	5364
3×70+1×35	59.3	62.5	6620	6570
3×95+1×50	64.4	68.0	8110	8055
3×120+1×70	68.7	72.5	9550	9491
3×150+1×95	73.4	77.5	11100	11037

CJPJ85/SC , CJPJ95/SC , CJPF86/SC , CJPF96/SC 6/10 (12) kV

No. of cores & Cross section	Overall diameter		Approx. weight	
	Nominal value	Maximum value	CJPJ85/SC	CJPJ95/SC
mm ²	mm		kg/km	
1×16	23.7	26.0	820	801
1×25	25.2	27.5	950	930
1×35	26.5	28.5	1100	1079
1×50	27.9	30.0	1270	1248
1×70	30.1	32.5	1570	1546
1×95	32.1	34.1	1910	1884
1×120	33.8	36.0	2230	2202
1×150	36.2	39.0	2640	2601
1×185	38.4	41.0	3110	3068
1×240	40.8	43.5	3810	3765
1×300	43.7	47.0	4510	4462
3×16	46.7	50.0	3120	3068
3×25	50.1	53.5	3700	3644
3×35	52.8	56.0	4270	4211
3×50	55.9	59.5	4960	4897
3×70	60.3	64.0	6030	5962
3×95	65.1	69.5	7320	7247
3×120	68.9	73.0	8500	8422
3×150	72.8	77.5	9760	9677
3×185	77.6	82.5	11070	10982
3×25+1×16	50.1	53.5	4230	4174
3×35+1×25	53.3	56.5	4960	4901
3×50+1×25	56.2	59.5	5640	5577
3×70+1×35	60.8	64.5	6890	6822
3×95+1×50	65.7	69.5	8350	8276
3×120+1×70	70.3	74.5	9850	9770
3×150+1×95	75.2	80.0	11330	11245

CJPJ85/SC , CJPJ95/SC , CJPF86/SC , CJPF96/SC 8.7/15 (17.5) kV

No. of cores & Cross section	Overall diameter		Approx. weight	
	Nominal value	Maximum value	CJPJ85/SC	CJPJ95/SC
mm ²	mm		kg/km	
1×25	27.7	30.0	1080	1058
1×35	29.3	31.5	1240	1216
1×50	30.6	33.0	1430	1405
1×70	32.4	34.5	1720	1694
1×95	34.4	36.5	2070	2042
1×120	36.8	39.0	2490	2450
1×150	37.4	40.0	2840	2799
1×185	40.7	43.5	3280	3235
1×240	41.2	44.0	3990	3945
1×300	44.0	47.0	4720	4672
3×25	55.5	59.0	4350	4288
3×35	58.6	62.0	4970	4904
3×50	61.7	65.5	5670	5601
3×70	66.0	70.0	6780	6706
3×95	70.6	75.0	8110	8030
3×120	74.3	78.5	9330	9246
3×150	78.4	83.0	10630	10541
3×185	84.1	89.0	13460	13364
3×25+1×16	55.7	59.0	4840	4778
3×35+1×25	58.8	62.0	5480	5414
3×50+1×25	61.9	65.5	5960	5890
3×70+1×35	66.0	70.0	7035	6961
3×95+1×50	71.0	75.0	8375	8295
3×120+1×70	75.3	79.5	9745	9660
3×150+1×95	79.4	84.0	11640	11550

CJPJ85/SC,CJPJ95/SC,DJPF86/SC,DJPF96/SC 12/20(24)kV

No. of cores & Cross section	Overall diameter		Approx. weight	
	Nominal value	Maximum value	CJPJ85/SC	CJPJ95/SC
mm ²	mm		kg/km	
1×35	30.6	33.0	1600	1575
1×50	32.1	34.5	1805	1779
1×70	34.2	36.5	2205	2177
1×95	36.4	38.5	2600	2570
1×120	38.1	40.5	2930	2888
1×150	40.0	43.0	3415	3371
1×185	42.0	45.0	3895	3849
1×240	45.2	48.0	4650	4600
1×300	46.9	50.0	5425	5373
3×35	61.2	64.5	5025	4956
3×50	65.3	69.0	5700	5626
3×70	68.7	72.5	6735	6657
3×95	73.6	78.0	7985	7902
3×120	77.1	81.5	9110	9022
3×150	80.4	85.0	10640	10549
3×185	85.0	90.0	12235	12138
3×35+1×25	62.6	66.5	6020	5950
3×50+1×25	66.4	70.0	6750	6675
3×70+1×35	69.1	73.5	7790	7712
3×95+1×50	74.5	79.0	9150	9065
3×120+1×70	78.7	83.5	10570	10481
3×150+1×95	87.0	92.0	12145	12046