



CABLE STRUCTURE

Conductor	Soft annealed flexible stranded tinned copper wire acc. to IEEE 1580 Table 11
Separator	A suitable separator tape may be applied to the conductor (optional for manufacturer)
Insulation	Cross-linked polyolefin compound, in accordance with Type P of IEEE 1580 and Type X110 of UL 1309/CSA C22.2 No.245.
Separator Sheath	A suitable separator tape may be applied (optional for manufacturer) Thermoset chlorinated polyethylene, CPE compound, in accordance with IEEE 1580 and UL 1309/CSA C22.2 No.245

STANDARDS & MAIN CHARACTERISTICS

Reference Standards	IEEE 1580, UL 1309, CSA C22.2 No.245, IEEE 45
Insulation Material	IEEE 1580, UL 1309, CSA C22.2 No.245
Sheath Material	IEEE 1580, UL 1309, CSA C22.2 No.245
Conductor Material	ASTM B 33
Conductor Resistance	IEEE 1580 Table 11
Flame Propagation	IEEE 1202, IEC 60332-3
Cold Bend (-40)	CSA C22.2
Cold Impact (-35)	CSA C22.2
Temperature Rating IEEE 1580	100°C (Single Core 125°C)
Temperature Rating UL 1309	110°C (Single Core 125°C)

OPERATING CHARACTERISTICS

Rated Voltage	600/1000 V	Min. Bending Radius	
Test Voltage	IEEE 1580 Table 19	<i>For D≤25 mm</i>	4 x D
		<i>For D>25 mm</i>	6 x D
		Current Carrying Capacity	IEEE 45.8

VISUAL AND MARKING

Sheath Color	Black (other colours on request)	2 Core	Black-White
Core Colours	IEEE 1580	3 Core	Black-White-Red
1 Core	Black	4 Core	Black-White-Red-Green
		5 Core	Black-White-Red-Green-Orange

APPLICATION

These cables are intended for use as power cables aboard ship and on off-shore oil rigs. The cables are constructed in accordance with the recommended practice for marine cable for use on fixed or floating facilities, IEEE 1580. Excellent resistance to oil, abrasion petrochem fluids, moisture salty water and sunlight.



FLAME RETARDANT



RATED VOLTAGE



TEST VOLTAGE



MIN. BENDING RADIUS

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CAN*	Cable Type	Cross-Section	Outer Sheath Diameter			Approx. Cable Weight (kg/km)	Min. Bending Radius (mm)	Current Carrying Capacity 100°C (**) (A)	Current Carrying Capacity 110°C (**) (A)	Max. Electrical Resistance at 20°C (ohm/km)
			Min. (mm)	Nom. (mm)	Max. (mm)					
6413.1	SPCPE-2	1x18 AWG	5,2	5,7	6,5	39	26	16	17	20,384
6413.2	SPCPE-3	1x16 AWG	5,2	5,9	7,0	43	28	23	25	15,778
6413.3	SPCPE-4	1x14 AWG	5,6	6,2	7,0	53	28	37	40	9,996
6413.4	SPCPE-7	1x12 AWG	6,0	6,7	7,5	68	30	45	48	6,292
6413.5	SPCPE-10	1x10 AWG	6,8	7,5	8,5	98	34	58	62	3,538
6413.6	SPCPE-17	1x8 AWG	8,2	9,0	10,0	138	40	72	77	2,46
6413.7	SPCPE-26	1x6 AWG	9,2	10,0	11,0	195	44	96	103	1,539
6413.8	SPCPE-33	1x5 AWG	10,0	11,0	12,0	262	48	109	117	1,137
6413.9	SPCPE-42	1x4 AWG	11,0	11,8	13,0	301	52	128	137	0,902
6413.10	SPCPE-53	1x3 AWG	11,5	12,6	14,0	364	56	146	156	0,715
6413.11	SPCPE-66	1x2 AWG	12,5	13,3	14,5	425	58	169	181	0,568
6413.12	SPCPE-84	1x1 AWG	15,0	16,4	18,0	623	72	194	208	0,412
6413.13	SPCPE-106	1x1/0 AWG	16,0	17,1	18,5	697	74	227	243	0,363
6413.14	SPCPE-133	1x2/0 AWG	17,5	18,5	20,0	862	80	262	281	0,284
6413.15	SPCPE-168	1x3/0 AWG	19,0	20,4	22,0	1.100	88	300	321	0,206
6413.16	SPCPE-212	1x4/0 AWG	21,5	22,8	24,5	1.345	98	351	376	0,171
6413.17	SPCPE-262	1x262 kcmil	23,0	24,8	26,5	1.613	159	407	436	0,148
6413.18	SPCPE-313	1x313 kcmil	24,5	26,2	28,0	1.845	168	455	487	0,123
6413.19	SPCPE-373	1x373 kcmil	26,0	27,8	30,0	2.153	180	516	553	0,103
6413.20	SPCPE-444	1x444 kcmil	28,0	29,6	31,5	2.534	189	588	630	0,086
6413.21	SPCPE-535	1x535 kcmil	30,5	32,4	34,5	3.042	207	630	676	0,072
6413.22	SPCPE-597	1x597 kcmil	31,5	33,6	36,0	3.345	216	670	678	0,07
6413.23	SPCPE-646	1x646 kcmil	33,0	34,8	37,0	3.648	222	731	783	0,06
6413.24	SPCPE-777	1x777 kcmil	35,0	37,2	39,5	4.301	237	822	881	0,05
6413.25	SPCPE-1111	1x1111 kcmil	43,0	45,2	48,0	6.235	288	1.025	1.098	0,035
6413.26	DPCPE-2	2x18 AWG	8,0	8,6	10,0	90	40	14	15	20,384
6413.27	DPCPE-3	2x16 AWG	8,2	9,0	10,0	100	40	19	20	15,778
6413.28	DPCPE-4	2x14 AWG	9,0	9,7	11,0	125	44	31	33	9,996
6413.29	DPCPE-7	2x12 AWG	9,5	10,7	12,0	162	48	40	43	6,292
6413.30	DPCPE-10	2x10 AWG	11,0	12,2	13,5	235	54	49	52	3,538
6413.31	DPCPE-17	2x8 AWG	15,0	16,0	17,5	375	70	64	69	2,46
6413.32	DPCPE-26	2x6 AWG	16,5	18,1	19,5	521	78	85	91	1,539
6413.33	DPCPE-33	2x5 AWG	18,5	20,1	22,0	693	88	101	108	1,137
6413.34	DPCPE-42	2x4 AWG	21,5	22,8	24,5	849	98	110	118	0,902

** Ambient air temperature at 45 °C

* CAN : Cable Article Number

* This can numbers for Black outer sheath

CAN*	Cable Type	Cross-Section	Outer Sheath Diameter			Approx. Cable Weight (kg/km)	Min. Bending Radius (mm)	Current Carrying Capacity 100 °C (**) (A)	Current Carrying Capacity 110 °C (**) (A)	Max. Electrical Resistance at 20 °C (ohm/km)
			Min. (mm)	Nom. (mm)	Max. (mm)					
6413.35	DPCPE-53	2x3 AWG	23,0	24,5	26,5	1.013	159	132	141	0,715
6413.36	DPCPE-66	2x2 AWG	24,0	25,9	28,0	1.172	168	149	160	0,568
6413.37	DPCPE-84	2x1 AWG	28,5	30,3	32,5	1.642	195	174	186	0,412
6413.38	DPCPE-106	2x1/0 AWG	30,0	31,8	34,0	1.831	204	199	213	0,363
6413.39	DPCPE-133	2x2/0 AWG	32,5	34,5	37,0	2.252	222	242	259	0,284
6413.40	DPCPE-168	2x3/0 AWG	36,0	38,2	41,0	2.862	246	265	284	0,206
6413.41	DPCPE-212	2x4/0 AWG	38,5	40,9	43,5	3.363	261	307	329	0,171
6413.42	DPCPE-262	2x262 kcmil	44,0	46,5	49,5	4.194	297	358	383	0,148
6413.43	DPCPE-313	2x313 kcmil	46,5	49,1	52,5	4.785	315	391	419	0,123
6413.44	DPCPE-373	2x373 kcmil	49,5	52,4	55,5	5.564	333	442	473	0,103
6413.45	DPCPE-444	2x444 kcmil	53,0	56,0	59,5	6.528	357	504	540	0,086
6413.46	DPCPE-535	2x535 kcmil	58,5	61,5	65,5	7.864	393	538	576	0,072
6413.47	DPCPE-597	2x597 kcmil	61,0	64,0	68,0	8.631	408	580	585	0,07
6413.48	DPCPE-646	2x646 kcmil	63,0	66,4	70,5	9.394	423	632	677	0,06
6413.49	DPCPE-777	2x777 kcmil	69,5	73,0	77,5	11.280	465	684	733	0,05
6413.50	DPCPE-1111	2x1111 kcmil	82,0	85,9	91,0	15.951	546	854	855	0,035
6413.51	TPCPE-2	3x18 AWG	8,4	9,1	10,5	105	42	12	13	20,384
6413.52	TPCPE-3	3x16 AWG	8,6	9,5	10,5	118	42	16	17	15,778
6413.53	TPCPE-4	3x14 AWG	9,4	10,3	11,5	151	46	25	27	9,996
6413.54	TPCPE-7	3x12 AWG	10,5	11,3	12,5	198	50	31	33	6,292
6413.55	TPCPE-10	3x10 AWG	12,0	12,9	14,5	295	58	41	44	3,538
6413.56	TPCPE-17	3x8 AWG	15,5	17,0	18,5	464	74	52	56	2,46
6413.57	TPCPE-26	3x6 AWG	18,0	19,2	21,0	657	84	70	75	1,539
6413.58	TPCPE-33	3x5 AWG	20,0	21,4	23,0	886	92	82	88	1,137
6413.59	TPCPE-42	3x4 AWG	22,5	24,2	26,0	1.075	156	92	99	0,902
6413.60	TPCPE-53	3x3 AWG	24,5	26,0	28,0	1.293	168	108	116	0,715
6413.61	TPCPE-66	3x2 AWG	26,0	27,5	29,5	1.505	177	122	131	0,568
6413.62	TPCPE-84	3x1 AWG	30,5	32,3	34,5	2.118	207	143	153	0,412
6413.63	TPCPE-106	3x1/0 AWG	32,0	33,9	36,5	2.369	219	164	176	0,363
6413.64	TPCPE-133	3x2/0 AWG	35,0	36,8	39,5	2.933	237	188	201	0,284
6413.65	TPCPE-168	3x3/0 AWG	38,5	40,8	43,5	3.748	261	218	234	0,206
6413.66	TPCPE-212	3x4/0 AWG	43,0	45,2	48,5	4.552	291	252	270	0,171
6413.67	TPCPE-262	3x262 kcmil	47,0	49,6	53,0	5.486	318	294	315	0,148
6413.68	TPCPE-313	3x313 kcmil	49,5	52,4	56,0	6.278	336	321	344	0,123

** Ambient air temperature at 45 °C

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			Min. (mm)	Nom. (mm)	Max. (mm)					
6413.69	TPCPE-373	3x373 kcmil	53,0	55,9	59,5	7.326	357	361	387	0,103
6413.70	TPCPE-444	3x444 kcmil	57,0	59,9	63,5	8.625	381	411	440	0,086
6413.71	TPCPE-535	3x535 kcmil	62,5	65,8	70,0	10.395	420	443	475	0,072
6413.72	TPCPE-597	3x597 kcmil	65,0	68,5	72,5	11.429	435	470	478	0,07
6413.73	TPCPE-646	3x646 kcmil	69,5	72,8	77,0	12.701	462	516	553	0,06
6413.74	TPCPE-777	3x777 kcmil	74,5	78,1	82,5	14.941	495	562	602	0,05
6413.76	FPCPE-2	4x18 AWG	9,0	9,9	11,0	127	44	12	13	20,384
6413.77	FPCPE-3	4x16 AWG	9,4	10,3	11,5	144	46	16	17	15,778
6413.78	FPCPE-4	4x14 AWG	10,0	11,2	12,5	185	50	25	27	9,996
6413.79	FPCPE-7	4x12 AWG	11,5	12,3	13,5	246	54	31	33	6,292
6413.80	FPCPE-10	4x10 AWG	14,0	15,0	16,5	394	66	41	44	3,538
6413.81	FPCPE-17	4x8 AWG	17,0	18,6	20,5	580	82	52	56	2,46
6413.82	FPCPE-26	4x6 AWG	19,5	21,1	23,0	826	92	70	75	1,539
6413.83	FPCPE-33	4x5 AWG	23,0	24,6	26,5	1.171	159	82	88	1,137
6413.84	FPCPE-42	4x4 AWG	25,0	26,6	28,5	1.354	171	92	99	0,902
6413.85	FPCPE-53	4x3 AWG	27,0	28,6	30,5	1.633	183	108	116	0,715
6413.86	FPCPE-66	4x2 AWG	28,5	30,3	32,5	1.907	195	122	131	0,568
6413.87	FPCPE-84	4x1 AWG	33,5	35,6	38,0	2.693	228	143	153	0,412
6413.88	FPCPE-106	4x1/0 AWG	35,0	37,4	40,0	3.016	240	164	176	0,363
6413.89	FPCPE-133	4x2/0 AWG	38,5	40,7	43,5	3.746	261	188	201	0,284
6413.90	FPCPE-168	4x3/0 AWG	44,0	46,7	50,0	4.932	300	218	234	0,206
6413.91	FPCPE-212	4x4/0 AWG	47,5	49,9	53,0	5.816	318	252	270	0,171
6413.92	FPCPE-262	4x262 kcmil	52,0	54,8	58,5	7.018	351	294	315	0,148
6413.93	FPCPE-313	4x313 kcmil	55,0	58,0	61,5	8.044	369	321	344	0,123
6413.94	FPCPE-373	4x373 kcmil	59,0	61,9	65,5	9.399	393	361	387	0,103
6413.95	FPCPE-444	4x444 kcmil	63,0	66,3	70,5	11.084	423	411	440	0,086
6413.96	FPCPE-535	4x535 kcmil	71,0	74,8	79,0	13.612	474	443	475	0,072
6413.97	FPCPE-597	4x597 kcmil	74,0	77,8	82,5	14.964	495	470	478	0,07
6413.98	FPCPE-646	4x646 kcmil	77,0	80,6	85,5	16.312	513	516	553	0,06
6.413.101	QPCPE-2	5x18 AWG	9,5	10,7	12,0	152	48	10	10	20,384
6.413.102	QPCPE-3	5x16 AWG	10,0	11,2	12,5	173	50	13	14	15,778
6.413.103	QPCPE-4	5x14 AWG	11,0	12,2	13,5	223	54	20	22	9,996
6.413.104	QPCPE-7	5x12 AWG	12,5	13,4	15,0	300	60	25	26	6,292
6.413.105	QPCPE-10	5x10 AWG	15,0	16,4	18,0	479	72	33	35	3,538

** Ambient air temperature at 45 °C

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			Min. (mm)	Nom. (mm)	Max. (mm)					
6.413.106	QPCPE-17	5x8 AWG	19,0	20,4	22,0	709	88	42	45	2,46
6.413.107	QPCPE-26	5x6 AWG	22,5	24,3	26,0	1.064	156	56	60	1,539
6.413.108	QPCPE-33	5x5 AWG	25,0	27,0	29,0	1.439	174	66	70	1,137
6.413.109	QPCPE-42	5x4 AWG	27,5	29,2	31,5	1.664	189	74	79	0,902
6.413.110	QPCPE-53	5x3 AWG	29,5	31,4	33,5	2.013	201	86	93	0,715
6.413.111	QPCPE-66	5x2 AWG	31,5	33,3	35,5	2.354	213	98	105	0,568
6.413.112	QPCPE-84	5x1 AWG	37,0	39,3	42,0	3.332	252	114	122	0,412
6.413.113	QPCPE-106	5x1/0 AWG	39,0	41,2	44,0	3.736	264	131	141	0,363
6.413.114	QPCPE-133	5x2/0 AWG	44,0	46,5	49,5	4.781	297	150	161	0,284
6.413.115	QPCPE-168	5x3/0 AWG	49,0	51,5	55,0	6.111	330	174	187	0,206
6.413.116	QPCPE-212	5x4/0 AWG	52,5	55,1	58,5	7.213	351	202	216	0,171
6.413.117	QPCPE-262	5x262 kcmil	57,5	60,5	64,5	8.713	387	235	252	0,148
6.413.118	QPCPE-313	5x313 kcmil	61,0	64,1	68,0	9.997	408	257	275	0,123
6.413.119	QPCPE-373	5x373 kcmil	65,0	68,5	72,5	11.692	435	289	310	0,103
6.413.120	QPCPE-444	5x444 kcmil	71,5	75,2	80,0	14.046	480	329	352	0,086
6.413.121	QPCPE-535	5x535 kcmil	78,5	82,7	87,5	16.923	525	354	380	0,072
6.413.122	QPCPE-597	5x597 kcmil	82,0	86,1	91,0	18.615	546	376	382	0,07

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