



## CABLE STRUCTURE

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

## STANDARDS & MAIN CHARACTERISTICS

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

## OPERATING CHARACTERISTICS

<b>Rated Voltage</b>	600/1000 V
<b>Test Voltage</b>	IEEE 1580 Table 19
<b>Min. Bending Radius</b>	6 x D
<b>Current Carrying Capacity</b>	IEEE 45.8

## VISUAL AND MARKING

<b>Sheath Color</b>	Black (other colours on request)	<b>2 Core</b>	Black-White
<b>Core Colours</b>	IEEE 1580	<b>3 Core</b>	Black-White-Red
<b>1 Core</b>	Black	<b>4 Core</b>	Black-White-Red-Green
		<b>5 Core</b>	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)					
6411.1	SPCPETS-2	1x18 AWG	9,0	9,9	11,0	146	66	16	17	20,384
6411.2	SPCPETS-3	1x16 AWG	9,2	10,1	11,5	153	69	23	25	15,778
6411.3	SPCPETS-4	1x14 AWG	9,6	10,5	11,5	169	69	37	40	9,996
6411.4	SPCPETS-7	1x12 AWG	10,0	11,0	12,0	192	72	45	48	6,292
6411.5	SPCPETS-10	1x10 AWG	10,5	11,7	13,0	234	78	58	62	3,538
6411.6	SPCPETS-17	1x8 AWG	12,0	13,2	14,5	297	87	72	77	2,46
6411.7	SPCPETS-26	1x6 AWG	13,5	15,1	16,5	396	99	96	103	1,539
6411.8	SPCPETS-33	1x5 AWG	14,5	16,1	17,5	481	105	109	117	1,137
6411.9	SPCPETS-42	1x4 AWG	15,5	16,9	18,5	536	111	128	137	0,902
6411.10	SPCPETS-53	1x3 AWG	16,5	17,7	19,5	612	117	146	156	0,715
6411.11	SPCPETS-66	1x2 AWG	17,0	18,5	20,0	687	120	169	181	0,568
6411.12	SPCPETS-84	1x1 AWG	20,0	21,6	23,5	939	141	194	208	0,412
6411.13	SPCPETS-106	1x1/0 AWG	21,5	23,4	25,0	1.076	150	227	243	0,363
6411.14	SPCPETS-133	1x2/0 AWG	23,0	24,8	26,5	1.272	159	262	281	0,284
6411.15	SPCPETS-168	1x3/0 AWG	25,0	26,9	29,0	1.552	174	300	321	0,206
6411.16	SPCPETS-212	1x4/0 AWG	27,0	29,3	31,5	1.842	189	351	376	0,171
6411.17	SPCPETS-262	1x262 kcmil	29,0	31,3	33,5	2.151	201	407	436	0,148
6411.18	SPCPETS-313	1x313 kcmil	30,5	32,7	35,0	2.413	210	455	487	0,123
6411.19	SPCPETS-373	1x373 kcmil	32,0	34,3	36,5	2.751	219	516	553	0,103
6411.20	SPCPETS-444	1x444 kcmil	34,0	36,1	38,5	3.170	231	588	630	0,086
6411.21	SPCPETS-535	1x535 kcmil	36,5	38,9	41,5	3.733	249	630	676	0,072
6411.22	SPCPETS-597	1x597 kcmil	37,5	40,1	43,0	4.063	258	670	678	0,07
6411.23	SPCPETS-646	1x646 kcmil	39,0	41,3	44,0	4.388	264	731	783	0,06
6411.24	SPCPETS-777	1x777 kcmil	42,5	45,3	48,0	5.236	288	822	881	0,05
6411.25	SPCPETS-1111	1x1111 kcmil	50,0	53,3	56,5	7.357	339	1.025	1.098	0,035
6411.26	DPCPETS-2	2x18 AWG	11,5	12,9	14,5	242	87	14	15	20,384
6411.27	DPCPETS-3	2x16 AWG	12,0	13,2	14,5	259	87	19	20	15,778
6411.28	DPCPETS-4	2x14 AWG	13,5	14,9	16,5	322	99	31	33	9,996
6411.29	DPCPETS-7	2x12 AWG	14,5	15,8	17,5	376	105	40	43	6,292
6411.30	DPCPETS-10	2x10 AWG	16,0	17,3	19,0	476	114	49	52	3,538
6411.31	DPCPETS-17	2x8 AWG	19,5	21,2	23,0	681	138	64	69	2,46
6411.32	DPCPETS-26	2x6 AWG	22,5	24,3	26,5	925	159	85	91	1,539
6411.33	DPCPETS-33	2x5 AWG	24,5	26,3	28,5	1.130	171	101	108	1,137
6411.34	DPCPETS-42	2x4 AWG	27,0	29,4	31,5	1.346	189	110	118	0,902

\*\* Ambient air temperature at 45 °C

\* CAN : Cable Article Number

\* This can numbers for Black outer sheath and tinned copper wire braiding

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)					
6411.35	DPCPETS-53	2x3 AWG	28,5	31,0	33,5	1.543	201	132	141	0,715
6411.36	DPCPETS-66	2x2 AWG	30,0	32,4	35,0	1.738	210	149	160	0,568
6411.37	DPCPETS-84	2x1 AWG	34,5	36,9	39,5	2.293	237	174	186	0,412
6411.38	DPCPETS-106	2x1/0 AWG	36,0	38,3	41,0	2.511	246	199	213	0,363
6411.39	DPCPETS-133	2x2/0 AWG	38,5	41,0	44,0	2.988	264	242	259	0,284
6411.40	DPCPETS-168	2x3/0 AWG	43,5	46,3	49,5	3.823	297	265	284	0,206
6411.41	DPCPETS-212	2x4/0 AWG	46,0	49,0	52,0	4.382	312	307	329	0,171
6411.42	DPCPETS-262	2x262 kcmil	51,0	54,5	58,0	5.342	348	358	383	0,148
6411.43	DPCPETS-313	2x313 kcmil	54,0	57,2	61,0	6.000	366	391	419	0,123
6411.44	DPCPETS-373	2x373 kcmil	57,0	60,4	64,0	6.854	384	442	473	0,103
6411.45	DPCPETS-444	2x444 kcmil	60,5	64,1	68,0	7.909	408	504	540	0,086
6411.46	DPCPETS-535	2x535 kcmil	66,0	69,6	74,0	9.367	444	538	576	0,072
6411.47	DPCPETS-597	2x597 kcmil	69,5	73,9	78,5	10.477	471	580	585	0,07
6411.48	DPCPETS-646	2x646 kcmil	72,0	76,2	81,0	11.288	486	632	677	0,06
6411.49	DPCPETS-777	2x777 kcmil	78,5	82,8	87,5	13.345	525	684	733	0,05
6411.51	TPCPETS-2	3x18 AWG	12,0	13,3	15,0	264	90	12	13	20,384
6411.52	TPCPETS-3	3x16 AWG	12,5	13,7	15,0	284	90	16	17	15,778
6411.53	TPCPETS-4	3x14 AWG	14,0	15,4	17,0	355	102	25	27	9,996
6411.54	TPCPETS-7	3x12 AWG	15,0	16,4	18,0	425	108	31	33	6,292
6411.55	TPCPETS-10	3x10 AWG	16,5	18,1	19,5	547	117	41	44	3,538
6411.56	TPCPETS-17	3x8 AWG	21,5	23,2	25,0	839	150	52	56	2,46
6411.57	TPCPETS-26	3x6 AWG	23,5	25,4	27,5	1.081	165	70	75	1,539
6411.58	TPCPETS-33	3x5 AWG	26,0	27,9	30,0	1.356	180	82	88	1,137
6411.59	TPCPETS-42	3x4 AWG	28,5	30,8	33,0	1.599	198	92	99	0,902
6411.60	TPCPETS-53	3x3 AWG	30,0	32,5	35,0	1.858	210	108	116	0,715
6411.61	TPCPETS-66	3x2 AWG	31,5	34,0	36,5	2.100	219	122	131	0,568
6411.62	TPCPETS-84	3x1 AWG	36,5	38,8	41,5	2.808	249	143	153	0,412
6411.63	TPCPETS-106	3x1/0 AWG	38,0	40,4	43,0	3.088	258	164	176	0,363
6411.64	TPCPETS-133	3x2/0 AWG	40,5	43,3	46,5	3.711	279	188	201	0,284
6411.65	TPCPETS-168	3x3/0 AWG	46,0	48,9	52,0	4.775	312	218	234	0,206
6411.66	TPCPETS-212	3x4/0 AWG	50,0	53,3	56,5	5.668	339	252	270	0,171
6411.67	TPCPETS-262	3x262 kcmil	54,0	57,6	61,0	6.707	366	294	315	0,148
6411.68	TPCPETS-313	3x313 kcmil	57,0	60,5	64,0	7.575	384	321	344	0,123
6411.69	TPCPETS-373	3x373 kcmil	60,5	64,0	68,0	8.706	408	361	387	0,103

\*\* Ambient air temperature at 45 °C

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			Min. (mm)	Nom. (mm)	Max. (mm)					
6411.70	TPCPETS-444	3x444 kcmil	64,0	67,9	72,0	10.083	432	411	440	0,086
6411.71	TPCPETS-535	3x535 kcmil	71,5	75,6	80,0	12.278	480	443	475	0,072
6411.72	TPCPETS-597	3x597 kcmil	74,0	78,3	83,0	13.377	498	470	478	0,07
6411.73	TPCPETS-646	3x646 kcmil	78,0	82,6	87,5	14.762	525	516	553	0,06
6411.74	TPCPETS-777	3x777 kcmil	83,0	87,9	93,0	17.151	558	562	602	0,05
6411.76	FPCPETS-2	4x18 AWG	13,5	15,0	16,5	325	99	12	13	20,384
6411.77	FPCPETS-3	4x16 AWG	14,0	15,4	17,0	349	102	16	17	15,778
6411.78	FPCPETS-4	4x14 AWG	15,0	16,3	18,0	406	108	25	27	9,996
6411.79	FPCPETS-7	4x12 AWG	16,0	17,4	19,0	488	114	31	33	6,292
6411.80	FPCPETS-10	4x10 AWG	18,5	20,2	22,0	683	132	41	44	3,538
6411.81	FPCPETS-17	4x8 AWG	23,0	24,8	27,0	989	162	52	56	2,46
6411.82	FPCPETS-26	4x6 AWG	25,5	27,6	29,5	1.288	177	70	75	1,539
6411.83	FPCPETS-33	4x5 AWG	29,0	31,1	33,5	1.702	201	82	88	1,137
6411.84	FPCPETS-42	4x4 AWG	31,0	33,1	35,5	1.925	213	92	99	0,902
6411.85	FPCPETS-53	4x3 AWG	32,5	35,1	37,5	2.243	225	108	116	0,715
6411.86	FPCPETS-66	4x2 AWG	34,5	36,8	39,5	2.557	237	122	131	0,568
6411.87	FPCPETS-84	4x1 AWG	39,5	42,2	45,0	3.448	270	143	153	0,412
6411.88	FPCPETS-106	4x1/0 AWG	42,5	45,4	48,5	3.951	291	164	176	0,363
6411.89	FPCPETS-133	4x2/0 AWG	45,5	48,7	52,0	4.771	312	188	201	0,284
6411.90	FPCPETS-168	4x3/0 AWG	51,5	54,8	58,5	6.084	351	218	234	0,206
6411.91	FPCPETS-212	4x4/0 AWG	54,5	58,0	61,5	7.042	369	252	270	0,171
6411.92	FPCPETS-262	4x262 kcmil	59,0	62,8	66,5	8.364	399	294	315	0,148
6411.93	FPCPETS-313	4x313 kcmil	62,5	66,0	70,0	9.463	420	321	344	0,123
6411.94	FPCPETS-373	4x373 kcmil	66,0	69,9	74,0	10.907	444	361	387	0,103
6411.95	FPCPETS-444	4x444 kcmil	72,0	76,1	80,5	12.976	483	411	440	0,086
6411.96	FPCPETS-535	4x535 kcmil	80,0	84,6	89,5	15.729	537	443	475	0,072
6411.97	FPCPETS-597	4x597 kcmil	83,0	87,6	92,5	17.168	555	470	478	0,07
6411.98	FPCPETS-646	4x646 kcmil	85,5	90,4	95,5	18.590	573	516	553	0,06
6.411.101	QPCPETS-2	5x18 AWG	14,5	15,8	17,5	366	105	10	10	20,384
6.411.102	QPCPETS-3	5x16 AWG	15,0	16,3	18,0	394	108	13	14	15,778
6.411.103	QPCPETS-4	5x14 AWG	16,0	17,3	19,0	462	114	20	22	9,996
6.411.104	QPCPETS-7	5x12 AWG	17,0	18,6	20,0	562	120	25	26	6,292
6.411.105	QPCPETS-10	5x10 AWG	20,0	21,5	23,5	792	141	33	35	3,538
6.411.106	QPCPETS-17	5x8 AWG	24,5	26,6	28,5	1.148	171	42	45	2,46

\*\* Ambient air temperature at 45 °C

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\* This can numbers for Black outer sheath and tinned copper wire braiding

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			Min. (mm)	Nom. (mm)	Max. (mm)					
6.411.107	QPCPETS-26	5x6 AWG	28,5	30,8	33,0	1.587	198	56	60	1,539
6.411.108	QPCPETS-33	5x5 AWG	31,0	33,5	36,0	2.019	216	66	70	1,137
6.411.109	QPCPETS-42	5x4 AWG	33,5	35,7	38,0	2.289	228	74	79	0,902
6.411.110	QPCPETS-53	5x3 AWG	35,5	37,9	40,5	2.688	243	86	93	0,715
6.411.111	QPCPETS-66	5x2 AWG	37,5	39,8	42,5	3.063	255	98	105	0,568
6.411.112	QPCPETS-84	5x1 AWG	44,5	47,4	50,5	4.307	303	114	122	0,412
6.411.113	QPCPETS-106	5x1/0 AWG	46,0	49,3	52,5	4.768	315	131	141	0,363
6.411.114	QPCPETS-133	5x2/0 AWG	51,0	54,6	58,0	5.929	348	150	161	0,284
6.411.115	QPCPETS-168	5x3/0 AWG	56,0	59,6	63,5	7.374	381	174	187	0,206
6.411.116	QPCPETS-212	5x4/0 AWG	59,5	63,2	67,0	8.581	402	202	216	0,171
6.411.117	QPCPETS-262	5x262 kcmil	64,5	68,6	73,0	10.190	438	235	252	0,148
6.411.118	QPCPETS-313	5x313 kcmil	70,0	73,9	78,5	11.827	471	257	275	0,123
6.411.119	QPCPETS-373	5x373 kcmil	74,0	78,3	83,0	13.639	498	289	310	0,103
6.411.120	QPCPETS-444	5x444 kcmil	80,5	85,1	90,0	16.172	540	329	352	0,086
6.411.121	QPCPETS-535	5x535 kcmil	87,5	92,5	98,0	19.247	588	354	380	0,072

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