



CABLE STRUCTURE

Conductor	Soft annealed flexible stranded tinned copper wire acc. to IEEE 1580 Table 11
Seperator	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.
Seperator	TA suitable separator tape may be applied (optional for manufacturer)
Sheath	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
Min. Bending Radius	6 x D	<i>For D > 25 mm</i>	6 x D
Current Carrying Capacity	IEEE 45.8	Current Carrying Capacity	IEEE 45.8

VISUAL AND MARKING

Sheath Color	Black (other colours on request)	4 Core	Black-White-Red-Green
		5 Core	Black-White-Red-Green-Orange
Core Colours	IEEE 1580 (other colours on request)	6 Core and above	White cores with numbered

APPLICATION

These cables are intended for use as control 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)					
6414.1	C18PCPE-4	4x18 AWG	9,0	9,9	11,0	127	44	12	13	20,384
6414.2	C18PCPE-5	5x18 AWG	9,5	10,7	12,0	152	48	10	10	20,384
6414.3	C18PCPE-7	7x18 AWG	10,5	11,6	13,0	187	52	8	9	20,384
6414.4	C18PCPE-8	8x18 AWG	12,0	13,4	15,0	239	60	8	9	20,384
6414.5	C18PCPE-10	10x18 AWG	14,0	15,4	17,0	298	68	6	7	20,384
6414.6	C18PCPE-12	12x18 AWG	14,5	15,9	17,5	324	70	6	7	20,384
6414.7	C18PCPE-16	16x18 AWG	16,0	17,5	19,0	409	76	6	7	20,384
6414.8	C18PCPE-19	19x18 AWG	17,0	18,4	20,0	462	80	6	7	20,384
6414.9	C18PCPE-20	20x18 AWG	17,5	19,3	21,0	502	84	6	7	20,384
6414.10	C18PCPE-24	24x18 AWG	19,5	21,3	23,0	587	92	5	6	20,384
6414.11	C18PCPE-27	27x18 AWG	20,0	21,8	23,5	635	94	5	6	20,384
6414.12	C18PCPE-37	37x18 AWG	23,5	25,4	27,5	872	165	5	5	20,384
6414.13	C18PCPE-44	44x18 AWG	26,0	28,3	30,5	1.060	183	4	5	20,384
6414.14	C18PCPE-60	60x18 AWG	29,0	31,3	33,5	1.339	201	4	5	20,384
6414.15	C18PCPE-91	91x18 AWG	34,5	37,2	40,0	1.926	240	4	4	20,384
6414.16	C16PCPE-4	4x16 AWG	9,4	10,3	11,5	144	46	16	17	15,778
6414.17	C16PCPE-5	5x16 AWG	10,0	11,2	12,5	173	50	13	14	15,778
6414.18	C16PCPE-7	7x16 AWG	11,0	12,1	13,5	214	54	11	12	15,778
6414.19	C16PCPE-8	8x16 AWG	13,5	14,9	16,5	296	66	11	12	15,778
6414.20	C16PCPE-10	10x16 AWG	15,0	16,1	17,5	338	70	8	9	15,778
6414.21	C16PCPE-12	12x16 AWG	15,0	16,6	18,0	370	72	8	9	15,778
6414.22	C16PCPE-16	16x16 AWG	17,0	18,3	20,0	469	80	8	9	15,778
6414.23	C16PCPE-19	19x16 AWG	17,5	19,2	21,0	532	84	8	9	15,778
6414.24	C16PCPE-20	20x16 AWG	18,5	20,2	22,0	577	88	8	9	15,778
6414.25	C16PCPE-24	24x16 AWG	21,5	23,4	25,5	723	153	7	8	15,778
6414.26	C16PCPE-27	27x16 AWG	22,0	23,9	26,0	781	156	7	8	15,778
6414.27	C16PCPE-37	37x16 AWG	24,5	26,6	28,5	1.006	171	6	7	15,778
6414.28	C16PCPE-44	44x16 AWG	27,5	29,7	32,0	1.223	192	6	6	15,778
6414.29	C16PCPE-60	60x16 AWG	30,5	32,8	35,0	1.553	210	6	6	15,778
6414.30	C16PCPE-91	91x16 AWG	36,5	39,0	42,0	2.243	252	5	5	15,778
6414.31	C14PCPE-4	4x14 AWG	10,0	11,2	12,5	185	50	25	27	9,996
6414.32	C14PCPE-5	5x14 AWG	11,0	12,2	13,5	223	54	20	22	9,996
6414.33	C14PCPE-7	7x14 AWG	12,0	13,2	14,5	281	58	18	19	9,996
6414.34	C14PCPE-8	8x14 AWG	15,0	16,2	18,0	381	72	18	19	9,996

** 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)					
6414.35	C14PCPE-10	10x14 AWG	16,0	17,6	19,0	439	76	13	14	9,996
6414.36	C14PCPE-12	12x14 AWG	16,5	18,1	20,0	484	80	13	14	9,996
6414.37	C14PCPE-16	16x14 AWG	18,5	20,0	22,0	618	88	13	14	9,996
6414.38	C14PCPE-19	19x14 AWG	19,5	21,1	23,0	705	92	13	14	9,996
6414.39	C14PCPE-20	20x14 AWG	21,5	23,2	25,0	811	150	13	14	9,996
6414.40	C14PCPE-24	24x14 AWG	24,0	25,7	27,5	949	165	11	12	9,996
6414.41	C14PCPE-27	27x14 AWG	24,5	26,2	28,5	1.030	171	11	12	9,996
6414.42	C14PCPE-37	37x14 AWG	27,0	29,2	31,5	1.338	189	10	11	9,996
6414.43	C14PCPE-44	44x14 AWG	30,5	32,6	35,0	1.627	210	9	9	9,996
6414.44	C14PCPE-60	60x14 AWG	33,5	36,1	38,5	2.085	231	9	9	9,996
6414.45	C14PCPE-91	91x14 AWG	40,5	43,1	46,0	3.034	276	8	8	9,996
6414.46	C12PCPE-4	4x12 AWG	11,5	12,3	13,5	246	54	31	33	6,292
6414.47	C12PCPE-5	5x12 AWG	12,5	13,4	15,0	300	60	25	26	6,292
6414.48	C12PCPE-7	7x12 AWG	14,0	15,5	17,0	405	68	22	23	6,292
6414.49	C12PCPE-8	8x12 AWG	16,5	17,9	19,5	509	78	22	23	6,292
6414.50	C12PCPE-10	10x12 AWG	18,0	19,5	21,0	589	84	16	17	6,292
6414.51	C12PCPE-12	12x12 AWG	18,5	20,1	22,0	656	88	16	17	6,292
6414.52	C12PCPE-16	16x12 AWG	21,5	23,3	25,5	890	153	16	17	6,292
6414.53	C12PCPE-19	19x12 AWG	22,5	24,5	26,5	1.016	159	16	17	6,292
6414.54	C12PCPE-20	20x12 AWG	24,0	25,7	28,0	1.098	168	16	17	6,292
6414.55	C12PCPE-24	24x12 AWG	26,5	28,5	30,5	1.290	183	14	15	6,292
6414.56	C12PCPE-27	27x12 AWG	27,0	29,1	31,5	1.407	189	14	15	6,292
6414.57	C12PCPE-37	37x12 AWG	30,5	32,4	35,0	1.842	210	12	13	6,292
6414.58	C12PCPE-44	44x12 AWG	34,0	36,4	39,0	2.238	234	11	12	6,292
6414.59	C12PCPE-60	60x12 AWG	38,0	40,4	43,0	2.891	258	11	12	6,292
6414.60	C12PCPE-91	91x12 AWG	46,5	49,8	53,0	4.377	318	9	10	6,292

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