



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.
Jacket	Thermoset chlorinated polyethylene, CPE compound, in accordance with IEEE 1580 and UL 1309/CSA C22.2 No.245
Armor	Basket weave bronze or tinned copper wire armour in accordance with IEEE 1580 and UL 1309/CSA C22.2 No.245
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	6 x D
Test Voltage	IEEE 1580 Table 19	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)					
6412.1	C18PCPETS-4	4x18 AWG	13,5	15,0	16,5	325	99	12	13	20,384
6412.2	C18PCPETS-5	5x18 AWG	14,5	15,8	17,5	366	105	10	10	20,384
6412.3	C18PCPETS-7	7x18 AWG	15,0	16,7	18,5	415	111	8	9	20,384
6412.4	C18PCPETS-8	8x18 AWG	17,0	18,5	20,0	498	120	8	9	20,384
6412.5	C18PCPETS-10	10x18 AWG	19,0	20,6	22,5	591	135	6	7	20,384
6412.6	C18PCPETS-12	12x18 AWG	19,0	21,0	23,0	625	138	6	7	20,384
6412.7	C18PCPETS-16	16x18 AWG	21,5	23,7	25,5	789	153	6	7	20,384
6412.8	C18PCPETS-19	19x18 AWG	22,5	24,6	26,5	868	159	6	7	20,384
6412.9	C18PCPETS-20	20x18 AWG	23,5	25,5	27,5	921	165	6	7	20,384
6412.10	C18PCPETS-24	24x18 AWG	25,5	27,8	30,0	1.054	180	5	6	20,384
6412.11	C18PCPETS-27	27x18 AWG	26,0	28,3	30,5	1.106	183	5	6	20,384
6412.12	C18PCPETS-37	37x18 AWG	29,5	31,9	34,0	1.416	204	5	5	20,384
6412.13	C18PCPETS-44	44x18 AWG	32,0	34,8	37,5	1.659	225	4	5	20,384
6412.14	C18PCPETS-60	60x18 AWG	35,0	37,8	40,5	1.995	243	4	5	20,384
6412.15	C18PCPETS-91	91x18 AWG	40,5	43,7	46,5	2.701	279	4	4	20,384
6412.16	C16PCPETS-4	4x16 AWG	14,0	15,4	17,0	349	102	16	17	15,778
6412.17	C16PCPETS-5	5x16 AWG	15,0	16,3	18,0	394	108	13	14	15,778
6412.18	C16PCPETS-7	7x16 AWG	15,5	17,2	19,0	452	114	11	12	15,778
6412.19	C16PCPETS-8	8x16 AWG	18,5	20,0	22,0	579	132	11	12	15,778
6412.20	C16PCPETS-10	10x16 AWG	19,5	21,2	23,0	644	138	8	9	15,778
6412.21	C16PCPETS-12	12x16 AWG	20,0	21,7	23,5	683	141	8	9	15,778
6412.22	C16PCPETS-16	16x16 AWG	22,5	24,5	26,5	874	159	8	9	15,778
6412.23	C16PCPETS-19	19x16 AWG	23,5	25,5	27,5	947	165	8	9	15,778
6412.24	C16PCPETS-20	20x16 AWG	24,0	26,4	28,5	1.010	171	8	9	15,778
6412.25	C16PCPETS-24	24x16 AWG	27,5	30,0	32,0	1.227	192	7	8	15,778
6412.26	C16PCPETS-27	27x16 AWG	28,0	30,4	32,5	1.295	195	7	8	15,778
6412.27	C16PCPETS-37	37x16 AWG	30,5	33,1	35,5	1.574	213	6	7	15,778
6412.28	C16PCPETS-44	44x16 AWG	33,5	36,2	39,0	1.850	234	6	6	15,778
6412.29	C16PCPETS-60	60x16 AWG	36,5	39,3	42,0	2.243	252	6	6	15,778
6412.30	C16PCPETS-91	91x16 AWG	43,5	47,1	50,0	3.208	300	5	5	15,778
6412.31	C14PCPETS-4	4x14 AWG	15,0	16,3	18,0	406	108	25	27	9,996
6412.32	C14PCPETS-5	5x14 AWG	16,0	17,3	19,0	462	114	20	22	9,996
6412.33	C14PCPETS-7	7x14 AWG	17,0	18,3	20,0	537	120	18	19	9,996
6412.34	C14PCPETS-8	8x14 AWG	19,5	21,4	23,0	689	138	18	19	9,996

** 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)					
6412.35	C14PCPETS-10	10x14 AWG	22,0	23,8	26,0	825	156	13	14	9,996
6412.36	C14PCPETS-12	12x14 AWG	22,5	24,4	26,5	888	159	13	14	9,996
6412.37	C14PCPETS-16	16x14 AWG	24,0	26,3	28,5	1.049	171	13	14	9,996
6412.38	C14PCPETS-19	19x14 AWG	25,5	27,6	29,5	1.166	177	13	14	9,996
6412.39	C14PCPETS-20	20x14 AWG	27,5	29,7	32,0	1.314	192	13	14	9,996
6412.40	C14PCPETS-24	24x14 AWG	29,5	32,2	34,5	1.497	207	11	12	9,996
6412.41	C14PCPETS-27	27x14 AWG	30,0	32,7	35,0	1.590	210	11	12	9,996
6412.42	C14PCPETS-37	37x14 AWG	33,0	35,7	38,0	1.961	228	10	11	9,996
6412.43	C14PCPETS-44	44x14 AWG	36,5	39,2	42,0	2.316	252	9	9	9,996
6412.44	C14PCPETS-60	60x14 AWG	39,5	42,6	45,5	2.846	273	9	9	9,996
6412.45	C14PCPETS-91	91x14 AWG	47,5	51,2	54,5	4.100	327	8	8	9,996
6412.46	C12PCPETS-4	4x12 AWG	16,0	17,4	19,0	488	114	31	33	6,292
6412.47	C12PCPETS-5	5x12 AWG	17,0	18,6	20,0	562	120	25	26	6,292
6412.48	C12PCPETS-7	7x12 AWG	19,0	20,6	22,5	702	135	22	23	6,292
6412.49	C12PCPETS-8	8x12 AWG	22,0	24,1	26,0	903	156	22	23	6,292
6412.50	C12PCPETS-10	10x12 AWG	23,5	25,7	27,5	1.011	165	16	17	6,292
6412.51	C12PCPETS-12	12x12 AWG	24,0	26,3	28,5	1.088	171	16	17	6,292
6412.52	C12PCPETS-16	16x12 AWG	27,5	29,9	32,0	1.395	192	16	17	6,292
6412.53	C12PCPETS-19	19x12 AWG	28,5	31,0	33,5	1.545	201	16	17	6,292
6412.54	C12PCPETS-20	20x12 AWG	30,0	32,2	34,5	1.652	207	16	17	6,292
6412.55	C12PCPETS-24	24x12 AWG	32,5	35,0	37,5	1.897	225	14	15	6,292
6412.56	C12PCPETS-27	27x12 AWG	33,0	35,6	38,0	1.889	228	14	15	6,292
6412.57	C12PCPETS-37	37x12 AWG	36,0	39,0	41,5	2.526	249	12	13	6,292
6412.58	C12PCPETS-44	44x12 AWG	40,0	42,9	46,0	3.004	276	11	12	6,292
6412.59	C12PCPETS-60	60x12 AWG	45,0	48,4	51,5	3.886	309	11	12	6,292
6412.60	C12PCPETS-91	91x12 AWG	54,0	57,9	61,5	5.594	369	9	10	6,292

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