



## CABLE STRUCTURE

<b>Conductor</b>	Soft annealed flexible stranded tinned copper wire acc. to IEEE 1580 Table 11
<b>Seperator</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>Aarmor</b>	Basket weave bronze or tinned copper wire armour 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>Core Colours</b>	IEEE 1580 (other colours on request)
<b>4 Core</b>	Black-White-Red-Green
<b>5 Core</b>	Black-White-Red-Green-Orange
<b>6 Core and above</b>	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)					
6418.1	C18PT-4	4x18 AWG	10,5	11,3	12,5	229	75	12	13	20,384
6418.2	C18PT-5	5x18 AWG	11,0	12,1	13,5	264	81	10	10	20,384
6418.3	C18PT-7	7x18 AWG	12,0	13,0	14,5	307	87	8	9	20,384
6418.4	C18PT-8	8x18 AWG	13,5	14,8	16,5	377	99	8	9	20,384
6418.5	C18PT-10	10x18 AWG	15,5	16,8	18,5	455	111	6	7	20,384
6418.6	C18PT-12	12x18 AWG	16,0	17,3	19,0	486	114	6	7	20,384
6418.7	C18PT-16	16x18 AWG	17,5	18,9	20,5	586	123	6	7	20,384
6418.8	C18PT-19	19x18 AWG	18,0	19,8	21,5	656	129	6	7	20,384
6418.9	C18PT-20	20x18 AWG	19,0	20,7	22,5	701	135	6	7	20,384
6418.10	C18PT-24	24x18 AWG	21,0	22,7	24,5	811	147	5	6	20,384
6418.11	C18PT-27	27x18 AWG	21,5	23,2	25,0	860	150	5	6	20,384
6418.12	C18PT-37	37x18 AWG	25,0	26,8	29,0	1.136	174	5	5	20,384
6418.13	C18PT-44	44x18 AWG	27,5	29,7	32,0	1.351	192	4	5	20,384
6418.14	C18PT-60	60x18 AWG	30,5	32,7	35,0	1.659	210	4	5	20,384
6418.15	C18PT-91	91x18 AWG	36,0	38,6	41,0	2.309	246	4	4	20,384
6418.16	C16PT-4	4x16 AWG	10,5	11,7	13,0	250	78	16	17	15,778
6418.17	C16PT-5	5x16 AWG	11,5	12,6	14,0	289	84	13	14	15,778
6418.18	C16PT-7	7x16 AWG	12,5	13,5	15,0	340	90	11	12	15,778
6418.19	C16PT-8	8x16 AWG	15,0	16,3	18,0	448	108	11	12	15,778
6418.20	C16PT-10	10x16 AWG	16,0	17,5	19,0	503	114	8	9	15,778
6418.21	C16PT-12	12x16 AWG	16,5	18,0	19,5	539	117	8	9	15,778
6418.22	C16PT-16	16x16 AWG	18,0	19,7	21,5	663	129	8	9	15,778
6418.23	C16PT-19	19x16 AWG	19,0	20,6	22,5	727	135	8	9	15,778
6418.24	C16PT-20	20x16 AWG	20,0	21,6	23,5	781	141	8	9	15,778
6418.25	C16PT-24	24x16 AWG	23,0	24,8	27,0	965	162	7	8	15,778
6418.26	C16PT-27	27x16 AWG	23,5	25,3	27,5	1.028	165	7	8	15,778
6418.27	C16PT-37	37x16 AWG	26,0	28,0	30,0	1.282	180	6	7	15,778
6418.28	C16PT-44	44x16 AWG	29,0	31,1	33,5	1.528	201	6	6	15,778
6418.29	C16PT-60	60x16 AWG	32,0	34,2	36,5	1.892	219	6	6	15,778
6418.30	C16PT-91	91x16 AWG	37,5	40,4	43,0	2.650	258	5	5	15,778
6418.31	C14PT-4	4x14 AWG	11,5	12,6	14,0	301	84	25	27	9,996
6418.32	C14PT-5	5x14 AWG	12,5	13,6	15,0	349	90	20	22	9,996
6418.33	C14PT-7	7x14 AWG	13,5	14,6	16,0	417	96	18	19	9,996
6418.34	C14PT-8	8x14 AWG	16,0	17,6	19,0	548	114	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)					
6418.35	C14PT-10	10x14 AWG	17,5	19,0	20,5	620	123	13	14	9,996
6418.36	C14PT-12	12x14 AWG	18,0	19,5	21,0	678	126	13	14	9,996
6418.37	C14PT-16	16x14 AWG	20,0	21,4	23,0	821	138	13	14	9,996
6418.38	C14PT-19	19x14 AWG	21,0	22,5	24,5	926	147	13	14	9,996
6418.39	C14PT-20	20x14 AWG	23,0	24,6	26,5	1.053	159	13	14	9,996
6418.40	C14PT-24	24x14 AWG	25,0	27,1	29,0	1.213	174	11	12	9,996
6418.41	C14PT-27	27x14 AWG	25,5	27,6	29,5	1.301	177	11	12	9,996
6418.42	C14PT-37	37x14 AWG	28,5	30,5	33,0	1.643	198	10	11	9,996
6418.43	C14PT-44	44x14 AWG	31,5	34,0	36,5	1.966	219	9	9	9,996
6418.44	C14PT-60	60x14 AWG	35,0	37,5	40,0	2.462	240	9	9	9,996
6418.45	C14PT-91	91x14 AWG	41,5	44,5	47,5	3.489	285	8	8	9,996
6418.46	C12PT-4	4x12 AWG	12,5	13,7	15,0	374	90	31	33	6,292
6418.47	C12PT-5	5x12 AWG	13,5	14,8	16,5	440	99	25	26	6,292
6418.48	C12PT-7	7x12 AWG	15,5	16,9	18,5	565	111	22	23	6,292
6418.49	C12PT-8	8x12 AWG	18,0	19,3	21,0	695	126	22	23	6,292
6418.50	C12PT-10	10x12 AWG	19,5	20,9	22,5	788	135	16	17	6,292
6418.51	C12PT-12	12x12 AWG	20,0	21,5	23,5	859	141	16	17	6,292
6418.52	C12PT-16	16x12 AWG	23,0	24,7	26,5	1.133	159	16	17	6,292
6418.53	C12PT-19	19x12 AWG	24,0	25,9	28,0	1.272	168	16	17	6,292
6418.54	C12PT-20	20x12 AWG	25,0	27,1	29,0	1.367	174	16	17	6,292
6418.55	C12PT-24	24x12 AWG	28,0	29,9	32,0	1.585	192	14	15	6,292
6418.56	C12PT-27	27x12 AWG	28,5	30,5	33,0	1.571	198	14	15	6,292
6418.57	C12PT-37	37x12 AWG	31,5	33,8	36,5	2.176	219	12	13	6,292
6418.58	C12PT-44	44x12 AWG	35,5	37,8	40,5	2.616	243	11	12	6,292
6418.59	C12PT-60	60x12 AWG	39,0	41,8	44,5	3.309	267	11	12	6,292
6418.60	C12PT-91	91x12 AWG	48,0	51,2	54,5	4.897	327	9	10	6,292

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