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.
Individually Shield	An aluminium/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core
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	*For D≤25 mm*	4 x D
		ForD>25 mm	6 x D
		Current Carrying Capacity	IEEE 45.8

VISUAL AND MARKING

Sheath Color	Black (other colours on request)
Core Colours	IEEE 1580
Pairs	Black-White with numbered

APPLICATION

These cables are intended for use as signal and instrumentation cables aboard ship and on off-shore oil rings. 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.

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)					
6422.1	TP (IS) 18PCPE-1	1x2x18 AWG	8,0	8,9	10,0	102	40	14	15	20,384
6422.2	TP (IS) 18PCPE-2	2x2x18 AWG	14,5	16,0	17,5	298	70	10	10	20,384
6422.3	TP (IS) 18PCPE-3	3x2x18 AWG	15,5	17,0	18,5	354	74	10	10	20,384
6422.4	TP (IS) 18PCPE-4	4x2x18 AWG	16,5	18,6	20,0	439	80	8	9	20,384
6422.5	TP (IS) 18PCPE-5	5x2x18 AWG	18,5	20,3	22,0	546	88	6	7	20,384
6422.6	TP (IS) 18PCPE-7	7x2x18 AWG	18,0	20,3	22,0	563	88	6	7	20,384
6422.7	TP (IS) 18PCPE-8	8x2x18 AWG	22,5	24,6	26,5	905	159	6	7	20,384
6422.8	TP (IS) 18PCPE-10	10x2x18 AWG	24,0	26,7	29,0	980	174	6	7	20,384
6422.9	TP (IS) 18PCPE-12	12x2x18 AWG	25,0	27,6	29,5	1.034	177	5	6	20,384
6422.10	TP (IS) 18PCPE-16	16x2x18 AWG	28,0	30,6	33,0	1.322	198	5	5	20,384
6422.11	TP (IS) 18PCPE-18	18x2x18 AWG	29,5	32,3	34,5	1.493	207	5	5	20,384
6422.12	TP (IS) 18PCPE-20	20x2x18 AWG	31,0	33,9	36,5	1.681	219	5	5	20,384
6422.13	TP (IS) 18PCPE-24	24x2x18 AWG	34,5	37,8	40,5	2.007	243	4	5	20,384
6422.14	TP (IS) 16PCPE-1	1x2x16 AWG	8,4	9,3	10,5	115	42	19	20	15,778
6422.15	TP (IS) 16PCPE-2	2x2x16 AWG	15,0	16,7	18,5	334	74	13	14	15,778
6422.16	TP (IS) 16PCPE-3	3x2x16 AWG	16,0	17,7	19,5	399	78	13	14	15,778
6422.17	TP (IS) 16PCPE-4	4x2x16 AWG	17,5	19,4	21,0	498	84	11	12	15,778
6422.18	TP (IS) 16PCPE-5	5x2x16 AWG	19,0	21,3	23,0	621	92	8	9	15,778
6422.19	TP (IS) 16PCPE-7	7x2x16 AWG	19,0	21,3	23,0	650	92	8	9	15,778
6422.20	TP (IS) 16PCPE-8	8x2x16 AWG	23,5	25,7	27,5	1.031	165	8	9	15,778
6422.21	TP (IS) 16PCPE-10	10x2x16 AWG	25,5	28	30,0	1.122	180	8	9	15,778
6422.22	TP (IS) 16PCPE-12	12x2x16 AWG	26,0	28,9	31,0	1.189	186	7	8	15,778
6422.23	TP (IS) 16PCPE-16	16x2x16 AWG	29,0	32,0	34,5	1.526	207	6	7	15,778
6422.24	TP (IS) 16PCPE-18	18x2x16 AWG	30,5	33,8	36,0	1.726	216	6	7	15,778
6422.25	TP (IS) 16PCPE-20	20x2x16 AWG	32,5	35,5	38,0	1.945	228	6	7	15,778
6422.26	TP (IS) 16PCPE-24	24x2x16 AWG	36,0	39,6	42,5	2.323	255	6	6	15,778
6422.27	TP (IS) 14PCPE-1	1x2x14 AWG	9,0	10,0	11,0	144	44	31	33	9,996
6422.28	TP (IS) 14PCPE-2	2x2x14 AWG	16,5	18,2	20,0	415	80	20	22	9,996
6422.29	TP (IS) 14PCPE-3	3x2x14 AWG	17,5	19,3	21,0	504	84	20	22	9,996
6422.30	TP (IS) 14PCPE-4	4x2x14 AWG	19,0	21,2	23,0	634	92	18	19	9,996
6422.31	TP (IS) 14PCPE-5	5x2x14 AWG	22,0	24,4	26,5	847	159	13	14	9,996
6422.32	TP (IS) 14PCPE-7	7x2x14 AWG	22,0	24,4	26,0	899	156	13	14	9,996
6422.33	TP (IS) 14PCPE-8	8x2x14 AWG	25,5	28,1	30,0	1.315	180	13	14	9,996
6422.34	TP (IS) 14PCPE-10	10x2x14 AWG	28,0	30,6	33,0	1.446	198	13	14	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)					
6422.35	TP (IS) 14PCPE-12	12x2x14 AWG	29,0	31,6	34,0	1.543	204	11	12	9,996
6422.36	TP (IS) 14PCPE-16	16x2x14 AWG	32,0	35,1	37,5	1.993	225	10	11	9,996
6422.37	TP (IS) 14PCPE-18	18x2x14 AWG	34,0	37,1	39,5	2.256	237	10	11	9,996
6422.38	TP (IS) 14PCPE-20	20x2x14 AWG	35,5	39,0	41,5	2.543	249	10	11	9,996
6422.39	TP (IS) 14PCPE-24	24x2x14 AWG	40,0	43,5	46,5	3.042	279	9	9	9,996

** Ambient air temperature at 45 °C

* CAN : Cable Article Number

* This can numbers for Black outer sheath