



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.
Individually Shield	An aluminium/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core
Jacket	Thermoset chlorinated polyethylene, CPE compound, in accordance with IEEE 1580 and UL 1309/CSA C22.2 No.245
Aarmor	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

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)
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 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)					
6421.1	TP (IS) 18PCPETS-1	1x2x18 AWG	12,0	13,2	14,5	258	87	14	15	20,384
6421.2	TP (IS) 18PCPETS-2	2x2x18 AWG	19,0	21,1	23,0	596	138	10	10	20,384
6421.3	TP (IS) 18PCPETS-3	3x2x18 AWG	20,0	22,1	24,0	669	144	10	10	20,384
6421.4	TP (IS) 18PCPETS-4	4x2x18 AWG	22,5	24,8	27,0	835	162	8	9	20,384
6421.5	TP (IS) 18PCPETS-5	5x2x18 AWG	24,0	26,6	28,5	977	171	6	7	20,384
6421.6	TP (IS) 18PCPETS-7	7x2x18 AWG	24,0	26,6	28,5	990	171	6	7	20,384
6421.7	TP (IS) 18PCPETS-8	8x2x18 AWG	28,0	31,1	33,5	1.423	201	6	7	20,384
6421.8	TP (IS) 18PCPETS-10	10x2x18 AWG	30,0	33,3	35,5	1.540	213	6	7	20,384
6421.9	TP (IS) 18PCPETS-12	12x2x18 AWG	31,0	34,1	36,5	1.610	219	5	6	20,384
6421.10	TP (IS) 18PCPETS-16	16x2x18 AWG	33,5	37,1	39,5	1.956	237	5	5	20,384
6421.11	TP (IS) 18PCPETS-18	18x2x18 AWG	35,0	38,8	41,5	2.158	249	5	5	20,384
6421.12	TP (IS) 18PCPETS-20	20x2x18 AWG	37,0	40,4	43,0	2.379	258	5	5	20,384
6421.13	TP (IS) 18PCPETS-24	24x2x18 AWG	40,5	44,3	47,0	2.779	282	4	5	20,384
6421.14	TP (IS) 16PCPETS-1	1x2x16 AWG	12,0	13,5	15,0	276	90	19	20	15,778
6421.15	TP (IS) 16PCPETS-2	2x2x16 AWG	19,5	21,8	23,5	643	141	13	14	15,778
6421.16	TP (IS) 16PCPETS-3	3x2x16 AWG	21,5	23,9	26,0	779	156	13	14	15,778
6421.17	TP (IS) 16PCPETS-4	4x2x16 AWG	23,0	25,6	27,5	911	165	11	12	15,778
6421.18	TP (IS) 16PCPETS-5	5x2x16 AWG	25,0	27,8	30,0	1.076	180	8	9	15,778
6421.19	TP (IS) 16PCPETS-7	7x2x16 AWG	25,0	27,8	29,5	1.100	177	8	9	15,778
6421.20	TP (IS) 16PCPETS-8	8x2x16 AWG	29,0	32,2	34,5	1.571	207	8	9	15,778
6421.21	TP (IS) 16PCPETS-10	10x2x16 AWG	31,5	34,5	37,0	1.707	222	8	9	15,778
6421.22	TP (IS) 16PCPETS-12	12x2x16 AWG	32,0	35,4	38,0	1.789	228	7	8	15,778
6421.23	TP (IS) 16PCPETS-16	16x2x16 AWG	35,0	38,5	41,0	2.190	246	6	7	15,778
6421.24	TP (IS) 16PCPETS-18	18x2x16 AWG	36,5	40,3	43,0	2.421	258	6	7	15,778
6421.25	TP (IS) 16PCPETS-20	20x2x16 AWG	38,5	42,0	45,0	2.675	270	6	7	15,778
6421.26	TP (IS) 16PCPETS-24	24x2x16 AWG	43,5	47,6	50,5	3.276	303	6	6	15,778
6421.27	TP (IS) 14PCPETS-1	1x2x14 AWG	13,5	15,1	16,5	342	99	31	33	9,996
6421.28	TP (IS) 14PCPETS-2	2x2x14 AWG	22,0	24,4	26,5	804	159	20	22	9,996
6421.29	TP (IS) 14PCPETS-3	3x2x14 AWG	23,0	25,5	27,5	915	165	20	22	9,996
6421.30	TP (IS) 14PCPETS-4	4x2x14 AWG	25,0	27,7	30,0	1.088	180	18	19	9,996
6421.31	TP (IS) 14PCPETS-5	5x2x14 AWG	28,0	30,9	33,0	1.361	198	13	14	9,996
6421.32	TP (IS) 14PCPETS-7	7x2x14 AWG	28,0	30,9	33,0	1.409	198	13	14	9,996
6421.33	TP (IS) 14PCPETS-8	8x2x14 AWG	31,5	34,6	37,0	1.901	222	13	14	9,996
6421.34	TP (IS) 14PCPETS-10	10x2x14 AWG	34,0	37,1	39,5	2.082	237	13	14	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)					
6421.35	TP (IS) 14PCPETS-12	12x2x14 AWG	34,5	38,1	41,0	2.198	246	11	12	9,996
6421.36	TP (IS) 14PCPETS-16	16x2x14 AWG	38,0	41,6	44,5	2.715	267	10	11	9,996
6421.37	TP (IS) 14PCPETS-18	18x2x14 AWG	40,0	43,6	46,5	3.016	279	10	11	9,996
6422.38	TP (IS) 14PCPETS-20	20x2x14 AWG	43,0	47,1	50,0	3.487	300	10	11	9,996
6421.39	TP (IS) 14PCPETS-24	24x2x14 AWG	47,0	51,6	55,0	4.087	330	9	9	9,996

** Ambient air temperature at 45 °C

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