



CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
Separator	A suitable tape may be applied over the conductor
Insulation	EI4 Type rubber (EPR) compound
Core Identification	Acc. to HD 308
Inner Sheath	EM2 or EM3 type elastomer compound (if outer sheath thickness is greater than 2.4 mm)
Outer Sheath	EM2 Type elastomer compound
Color	Black (other colors on request)

STANDARDS & MAIN CHARACTERISTICS

Construction	EN 50525-2-21, DIN VDE 0282-4, BS 6500 BS 7919, IEC 60245-4
General Requirements	EN 50525-1, HD 22.1, DN VDE 0282-1, IEC 60245-1
Guide to Use	HD 516, DIN VDE 0298-300
Electrical Tests	EN 50395, IEC 60245-2
Non - Electrical Tests	EN 50396, IEC 60245-2
Conductor Resistance	EN / IEC 60228, HD 383, DIN VDE 0295, BS 6360
Working Temperature	
In Mobile Use	-25°C / +60°C
in Fixed Use	-35°C / +85°C
Conductor Short - Circuit Temp.	Max. 200°C
Temp. on Cable Surface	Max. +50°C
Min. Installation Temp.	-25°C
Min. Bending Radius	HD 516 Table 6.C
Max. Tensile Load	15 N / mm ²
Current Carrying Capacities	HD 516 Table 7.C VDE 0298-4
Flame Retardant	EMEC 60332-1-2, DIN VDE 0482-332-1-2
Oil Resistant	HD/EMEC 60811-2-1, DIN VDE 0473-811-2-1

It's allowed up to 1.000 V AC or DC using for fixed and protected installations.

Application

Used as signal and communication cables in radio, radar and information systems of marine vehicles. It's twisted pairs enables proper transmission of high frequency signals, while it's overall screen minimizes environmental electromagnetic interference.



Uv
Resistant



Rated
Voltage



Working
Temperature



Bending
Radius



No
Corrosivity

Cross Section (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min. Bending Radius Fixed Installed (mm)	Max Resistance of Conductors at 20°C (ohm / km)	Current Carrying Capacity at 30°C (A)
1x1,5	6,0	52	24	13,3	19
1x2,5	6,4	65	25	7,98	26
1x4	7,3	90	29	4,95	34
1x6	8,1	115	32	3,30	43
1x10	10,2	185	41	1,91	60
1x16	11,0	245	44	1,21	79
1x25	13,8	375	56	0,78	104
1x35	15,3	490	62	0,554	129
1x50	17,8	678	72	0,386	162
1x70	19,4	890	78	0,272	202
1x95	22,1	1152	89	0,206	240
1x120	24,4	1450	98	0,161	280
1x150	26,6	1750	107	0,129	321
1x185	29,7	2165	119	0,106	363
1x240	32,6	2740	131	0,0801	433
1x300	35,6	3356	143	0,0641	497
2x1	8,4	98	34	19,5	16
2x1,5	9,3	122	38	13,3	19
2x2,5	10,6	165	43	7,98	26
2x4	12,2	230	49	4,95	43
2x6	13,6	300	55	3,30	60
2x10	19,2	572	77	1,91	79
2x16	21,0	740	84	1,21	104
2x25	26,7	1160	107	0,78	129
2x35	29,4	1465	118	0,554	162
2x50	34,4	2030	138	0,386	202
2x70	38,3	2645	154	0,272	240
2x95	43,7	3435	175	0,206	280
2x120	49,5	4430	198	0,161	321
2x150	52,3	5110	210	0,129	363
3x1	9,1	118	37	19,5	13
3x1,5	9,9	145	40	13,3	16

Cross Section (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min. Bending Radius Fixed Installed (mm)	Max Resistance of Conductors at 20°C (ohm / km)	Current Carrying Capacity at 30°C (A)
3x2,5	11,4	205	46	7,98	21
3x4	13,1	280	53	4,95	29
3x6	14,6	370	59	3,30	36
3x10	20,6	705	83	1,91	51
3x16	22,5	920	90	1,21	67
3x25	28,6	1435	115	0,78	109
3x35	31,7	1845	127	0,554	135
3x50	37,0	2550	148	0,386	169
3x70	40,9	3330	164	0,272	211
3x95	46,9	4350	188	0,206	250
3x120	51,6	5410	207	0,161	292
3x150	56,2	6515	225	0,129	335
3x185	62,3	8050	250	0,106	378
3x240	69,5	10270	278	0,0801	447
4x1	10,1	150	41	19,5	13
4x1,5	11,0	180	44	13,3	16
4x2,5	12,6	252	51	7,98	21
4x4	14,5	355	58	4,95	30
4x6	16,3	470	66	3,30	37
4x10	22,6	870	91	1,91	52
4x16	24,7	1150	99	1,21	69
4x25	31,8	1815	127	0,78	92
4x35	35,2	2335	141	0,554	114
4x50	41,1	3235	165	0,386	143
4x70	45,0	4225	180	0,272	178
4x95	52,0	5560	208	0,206	210
4x120	56,8	6870	228	0,161	246
4x150	62,2	8320	249	0,129	282
4x185	69,7	10340	279	0,106	319
4x240	77,6	13180	311	0,0801	377
5x1	11,1	175	45	19,5	10
5x1,5	12,1	214	49	13,3	16
5x2,5	13,8	300	56	7,98	23

Cross Section (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min. Bending Radius Fixed Installed (mm)	Max Resistance of Conductors at 20°C (ohm / km)	Current Carrying Capacity at 30°C (A)
5x4	16,1	428	65	4,95	30
5x6	18,1	570	73	3,30	38
5x10	24,9	1065	100	1,91	54
5x16	27,4	1420	110	1,21	71
5x25	35,4	2250	142	0,78	94
5x35	38,9	2875	156	0,554	89
5x50	45,8	4025	185	0,386	114
5x70	50,2	5270	201	0,272	140
7x1,5	15,4	350	62	13,3	16
7x2,5	17,5	480	70	7,98	23
10x1,5	18,3	455	74	13,3	16
12x1,5	18,7	502	75	13,3	16
14x1,5	19,9	575	58	13,3	16
19x1,5	23,2	782	93	13,3	16
24x1,5	25,7	922	103	13,3	16

- Notes:**
1. Ambient air temperature 30 °C
 2. The tabulated ratings are for cables run in free air
 3. Single core cables are bunched (2 cables touching side by side and 3 cables in trefoil)
 4. For Single core and Two Cores = 2 cores loaded
 For Three and Four Core = 3 cores loaded
 Five Core = 3 cores loaded

Temperature correction factors

Ambient air temperature °C	30	35	40	45	50	55
Correction factor	1,0	0,91	0,82	0,71	0,58	0,41

