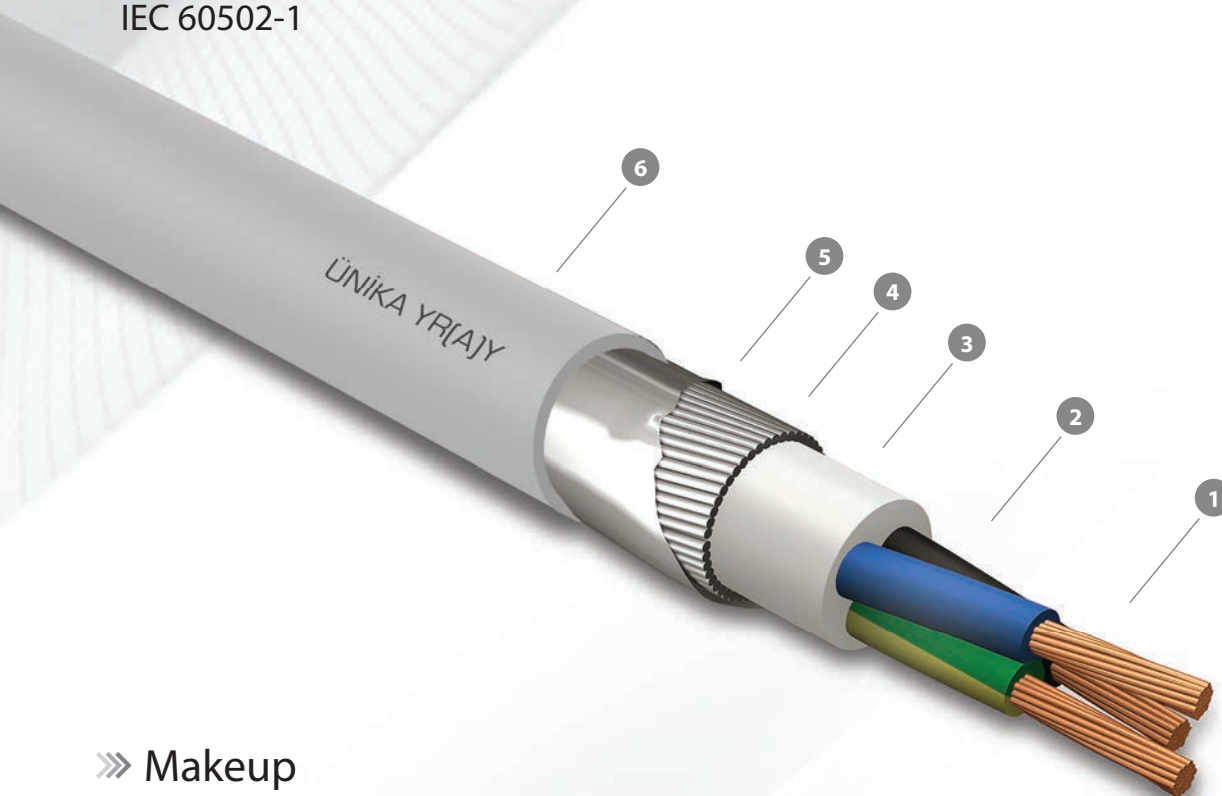


OIL and GAS ONSHORE POWER CABLES

U-2VOVAL / YR(A)Y 0,6/1kV
 CU/PVC/PVC-F/AWA/PVC
 IEC 60502-1



»» Makeup

- | | | |
|---|---------------------|---|
| 1 | Conductor | : Annealed circular stranded or compact copper wires complying with IEC 60228 Class 2 |
| 2 | Insulation | : Polyvinyl chloride, PVC/A in accordance with IEC 60502-1 |
| 3 | Bedding | : Polyvinyl chloride (PVC) compound |
| 4 | Armour | : Aluminium wire in accordance with IEC 60502-1 |
| 5 | Tape | : Polyester or aluminium wrapping tape |
| 6 | Outer Jacket | : Polyvinyl chloride (PVC) compound ST2 in accordance with IEC 60502-1 |

»» Technical Features

- | | |
|------------------------------|-------------------------------------|
| Operating Temperature | : -15/70 °C |
| Rated Voltage | : 0,6/1 kV |
| Design Guide | : IEC 60502-1 |
| Flame Retardancy | : IEC 60332-1 |
| Flame Propagation | : IEC 60332-3-22 Cat. A Optional |
| Cold Bend | : IEC 60811-504 (-15°C) |
| Cold Impact | : IEC 60811-506 (-15°C) |
| Oil Resistant | : Optional, as per customer request |

»» Application

Fixed installation for power, control and lighting in safe areas, emergency, critical oil and gas onshore and industrial plants.

U-2VOVAL / YR(A)Y 0,6/1kV CABLE DATA SHEET

Item	Construction	Cross-section (mm ²)	Outer Sheath (mm) Diameter		Copper Content (kg/km)	Weight (approx.) (kg/km)	Max. Conductor Resistance at 20 °C (ohm/km)	Max. Current Carrying Capacity Conductor Temperature at 90 °C Ambient Temperature at 45 °C (A) (Air)
			Nom.					
1.	BCL2/PVC/PVC-F/AWA/ST2	1 x 1,5	10,2		13	140	12,1	14
2.	BCL2/PVC/PVC-F/AWA/ST2	1 x 2,5	10,6		22	156	7,41	20
3.	BCL2/PVC/PVC-F/AWA/ST2	1 x 4	11,6		35	193	4,61	28
4.	BCCU/PVC/PVC-F/AWA/ST2	1 x 6	12,0		52	220	3,08	36
5.	BCCU/PVC/PVC-F/AWA/ST2	1 x 10	12,8		87	274	1,83	50
6.	BCCU/PVC/PVC-F/AWA/ST2	1 x 16	13,7		136	342	1,15	67
7.	BCCU/PVC/PVC-F/AWA/ST2	1 x 25	15,3		216	467	0,727	89
8.	BCCU/PVC/PVC-F/AWA/ST2	1 x 35	17,3		302	623	0,524	110
9.	BCCU/PVC/PVC-F/AWA/ST2	1 x 50	18,8		408	778	0,387	138
10.	BCCU/PVC/PVC-F/AWA/ST2	1 x 70	20,4		588	1.003	0,268	170
11.	BCCU/PVC/PVC-F/AWA/ST2	1 x 95	23,8		822	1.384	0,193	206
12.	BCCU/PVC/PVC-F/AWA/ST2	1 x 120	25,2		1.033	1.647	0,153	239
13.	BCCU/PVC/PVC-F/AWA/ST2	1 x 150	27,0		1.270	1.958	0,124	274
14.	BCCU/PVC/PVC-F/AWA/ST2	1 x 185	29,2		1.588	2.371	0,0991	313
15.	BCCU/PVC/PVC-F/AWA/ST2	1 x 240	32,1		2.086	2.994	0,0754	368
16.	BCCU/PVC/PVC-F/AWA/ST2	1 x 300	35,7		2.618	3.748	0,0601	424
17.	BCCU/PVC/PVC-F/AWA/ST2	1 x 400	39,3		3.343	4.670	0,047	507
18.	BCCU/PVC/PVC-F/AWA/ST2	1 x 500	42,9		4.292	5.796	0,0366	583
19.	BCCU/PVC/PVC-F/AWA/ST2	1 x 630	47,8		5.540	7.403	0,0283	674
20.	BCL2/PVC/PVC-F/AWA/ST2	2 x 1,5	13,4		27	245	12,1	12
21.	BCL2/PVC/PVC-F/AWA/ST2	2 x 2,5	14,2		43	287	7,41	17
22.	BCL2/PVC/PVC-F/AWA/ST2	2 x 4	17,0		70	425	4,61	24
23.	BCCU/PVC/PVC-F/AWA/ST2	2 x 6	17,8		106	490	3,08	31
24.	BCCU/PVC/PVC-F/AWA/ST2	2 x 10	19,4		176	622	1,83	43
25.	BCCU/PVC/PVC-F/AWA/ST2	2 x 16	21,2		274	793	1,15	57
26.	BCCU/PVC/PVC-F/AWA/ST2	2 x 25	25,7		435	1.196	0,727	76
27.	BCCU/PVC/PVC-F/AWA/ST2	2 x 35	27,9		607	1.487	0,524	94
28.	BCCU/PVC/PVC-F/AWA/ST2	2 x 50	31,3		820	1.905	0,387	117
29.	BCCU/PVC/PVC-F/AWA/ST2	2 x 70	35,5		1.183	2.568	0,268	145
30.	BCCU/PVC/PVC-F/AWA/ST2	2 x 95	40,5		1.653	3.431	0,193	175
31.	BCCU/PVC/PVC-F/AWA/ST2	2 x 120	43,5		2.078	4.084	0,153	203
32.	BCCU/PVC/PVC-F/AWA/ST2	2 x 150	48,7		2.554	5.103	0,124	233
33.	BCCU/PVC/PVC-F/AWA/ST2	2 x 185	53,1		3.194	6.169	0,0991	266
34.	BCCU/PVC/PVC-F/AWA/ST2	2 x 240	58,9		4.197	7.793	0,0754	313
35.	BCCU/PVC/PVC-F/AWA/ST2	2 x 300	64,9		5.266	9.577	0,0601	360
36.	BCCU/PVC/PVC-F/AWA/ST2	2 x 400	71,3		6.725	11.847	0,047	431
37.	BCCU/PVC/PVC-F/AWA/ST2	2 x 500	80,4		8.635	15.181	0,0366	495
38.	BCCU/PVC/PVC-F/AWA/ST2	2 x 630	87,8		11.145	18.767	0,0283	573
39.	BCL2/PVC/PVC-F/AWA/ST2	3 x 1,5	13,9		40	272	12,1	10
40.	BCL2/PVC/PVC-F/AWA/ST2	3 x 2,5	14,8		65	324	7,41	14
41.	BCL2/PVC/PVC-F/AWA/ST2	3 x 4	17,7		105	480	4,61	19
42.	BCCU/PVC/PVC-F/AWA/ST2	3 x 6	18,5		158	563	3,08	25
43.	BCCU/PVC/PVC-F/AWA/ST2	3 x 10	20,2		264	736	1,83	35
44.	BCCU/PVC/PVC-F/AWA/ST2	3 x 16	23,5		411	1.039	1,15	47
45.	BCCU/PVC/PVC-F/AWA/ST2	3 x 25	26,9		652	1.460	0,727	62

BCL2 : Bare class 2 copper wire

BCCU : Bare compacted class 2 copper wire

BSCU : Bare sector shaped compacted class 2 copper wire

U-2VOVAL / YR(A)Y 0,6/1kV CABLE DATA SHEET

Item	Construction	Cross-section (mm ²)	Outer Sheath (mm)		Copper Content (kg/km)	Weight (approx.) (kg/km)	Max. Conductor Resistance at 20 °C (ohm/km)	Max. Current Carrying Capacity Conductor Temperature at 90 °C Ambient Temperature at 45 °C (A) (Air)
			Diameter					
			Nom.					
46.	BCCU/PVC/PVC-F/AWA/ST2	3 x 35	29,5		910	1.845	0,524	77
47.	BCCU/PVC/PVC-F/AWA/ST2	3 x 50	32,9		1.230	2.375	0,387	96
48.	BCCU/PVC/PVC-F/AWA/ST2	3 x 70	38,0		1.774	3.281	0,268	119
49.	BCCU/PVC/PVC-F/AWA/ST2	3 x 95	42,7		2.478	4.321	0,193	144
50.	BCCU/PVC/PVC-F/AWA/ST2	3 x 120	47,1		3.117	5.377	0,153	167
51.	BCCU/PVC/PVC-F/AWA/ST2	3 x 150	51,6		3.830	6.501	0,124	192
52.	BCCU/PVC/PVC-F/AWA/ST2	3 x 185	56,3		4.789	7.910	0,0991	219
53.	BCCU/PVC/PVC-F/AWA/ST2	3 x 240	62,9		6.294	10.113	0,0754	258
54.	BCCU/PVC/PVC-F/AWA/ST2	3 x 300	68,9		7.897	12.386	0,0601	296
55.	BCCU/PVC/PVC-F/AWA/ST2	3 x 400	77,7		10.085	15.817	0,047	355
56.	BCL2/PVC/PVC-F/AWA/ST2	4 x 1,5	14,7		54	312	12,1	10
57.	BCL2/PVC/PVC-F/AWA/ST2	4 x 2,5	16,6		87	421	7,41	14
58.	BCL2/PVC/PVC-F/AWA/ST2	4 x 4	18,9		141	562	4,61	19
59.	BCCU/PVC/PVC-F/AWA/ST2	4 x 6	19,8		211	670	3,08	25
60.	BCCU/PVC/PVC-F/AWA/ST2	4 x 10	23,0		352	963	1,83	35
61.	BCCU/PVC/PVC-F/AWA/ST2	4 x 16	25,2		549	1.254	1,15	47
62.	BCCU/PVC/PVC-F/AWA/ST2	4 x 25	29,3		870	1.800	0,727	62
63.	BCCU/PVC/PVC-F/AWA/ST2	4 x 35	32,1		1.215	2.295	0,524	77
64.	BCCU/PVC/PVC-F/AWA/ST2	4 x 50	37,3		1.641	3.112	0,387	96
65.	BCCU/PVC/PVC-F/AWA/ST2	4 x 70	41,4		2.368	4.102	0,268	119
66.	BCCU/PVC/PVC-F/AWA/ST2	4 x 95	48,3		3.308	5.670	0,193	144
67.	BCCU/PVC/PVC-F/AWA/ST2	4 x 120	51,8		4.160	6.804	0,153	167
68.	BCCU/PVC/PVC-F/AWA/ST2	4 x 150	56,6		5.112	8.206	0,124	192
69.	BCCU/PVC/PVC-F/AWA/ST2	4 x 185	62,2		6.392	10.087	0,0991	219
70.	BCCU/PVC/PVC-F/AWA/ST2	4 x 240	69,1		8.400	12.838	0,0754	258
71.	BCCU/PVC/PVC-F/AWA/ST2	4 x 300	77,7		10.540	16.191	0,0601	296
72.	BCL2/PVC/PVC-F/AWA/ST2	5 x 1,5	16,5		67	399	12,1	8
73.	BCL2/PVC/PVC-F/AWA/ST2	5 x 2,5	17,6		109	481	7,41	11
74.	BCL2/PVC/PVC-F/AWA/ST2	5 x 4	20,2		176	656	4,61	15
75.	BCCU/PVC/PVC-F/AWA/ST2	5 x 6	21,2		264	784	3,08	20
76.	BCCU/PVC/PVC-F/AWA/ST2	5 x 10	24,7		441	1.132	1,83	28
77.	BCCU/PVC/PVC-F/AWA/ST2	5 x 16	27,1		687	1.493	1,15	38
78.	BCCU/PVC/PVC-F/AWA/ST2	5 x 25	31,8		1.088	2.170	0,727	50
79.	BCCU/PVC/PVC-F/AWA/ST2	5 x 35	36,2		1.520	2.906	0,524	62
80.	BCCU/PVC/PVC-F/AWA/ST2	5 x 50	40,6		2.054	3.771	0,387	77
81.	BCCU/PVC/PVC-F/AWA/ST2	5 x 70	46,2		2.963	5.132	0,268	95
82.	BCCU/PVC/PVC-F/AWA/ST2	5 x 95	52,8		4.139	6.904	0,193	115
83.	BCCU/PVC/PVC-F/AWA/ST2	5 x 120	56,8		5.205	8.332	0,153	133
84.	BCCU/PVC/PVC-F/AWA/ST2	5 x 150	62,5		6.397	10.124	0,124	153
85.	BCCU/PVC/PVC-F/AWA/ST2	5 x 185	68,3		7.999	12.374	0,0991	175
86.	BCCU/PVC/PVC-F/AWA/ST2	5 x 240	77,9		10.511	16.210	0,0754	206
87.	BCL2/PVC/PVC-F/AWA/ST2	6 x 1,5	17,4		81	453	12,1	8
88.	BCL2/PVC/PVC-F/AWA/ST2	7 x 1,5	17,4		94	463	12,1	7
89.	BCL2/PVC/PVC-F/AWA/ST2	8 x 1,5	19,4		108	565	12,1	7
90.	BCL2/PVC/PVC-F/AWA/ST2	9 x 1,5	19,4		121	576	12,1	7

BCL2 : Bare class 2 copper wire

BCCU : Bare compacted class 2 copper wire

BSCU : Bare sector shaped compacted class 2 copper wire

U-2VOVAL / YR(A)Y 0,6/1kV CABLE DATA SHEET

Item	Construction	Cross-section (mm ²)	Outer Sheath (mm) Diameter		Copper Content (kg/km)	Weight (approx.) (kg/km)	Max. Conductor Resistance at 20 °C (ohm/km)	Max. Current Carrying Capacity Conductor Temperature at 90 °C Ambient Temperature at 45 °C (A) (Air)
			Nom.					
91.	BCL2/PVC/PVC-F/AWA/ST2	10 x 1,5	20,6		135	649	12,1	7
92.	BCL2/PVC/PVC-F/AWA/ST2	12 x 1,5	21,1		162	694	12,1	7
93.	BCL2/PVC/PVC-F/AWA/ST2	14 x 1,5	23,2		189	836	12,1	7
94.	BCL2/PVC/PVC-F/AWA/ST2	16 x 1,5	24,1		216	913	12,1	7
95.	BCL2/PVC/PVC-F/AWA/ST2	18 x 1,5	25,1		243	994	12,1	7
96.	BCL2/PVC/PVC-F/AWA/ST2	19 x 1,5	25,1		256	1.004	12,1	7
97.	BCL2/PVC/PVC-F/AWA/ST2	24 x 1,5	28,4		324	1.284	12,1	7
98.	BCL2/PVC/PVC-F/AWA/ST2	27 x 1,5	28,9		364	1.350	12,1	6
99.	BCL2/PVC/PVC-F/AWA/ST2	33 x 1,5	30,6		445	1.546	12,1	6
100.	BCL2/PVC/PVC-F/AWA/ST2	37 x 1,5	31,8		499	1.671	12,1	6
101.	BCL2/PVC/PVC-F/AWA/ST2	48 x 1,5	36,8		648	2.240	12,1	5
102.	BCL2/PVC/PVC-F/AWA/ST2	61 x 1,5	39,7		823	2.658	12,1	5
103.	BCL2/PVC/PVC-F/AWA/ST2	6 x 2,5	18,7		130	549	7,41	11
104.	BCL2/PVC/PVC-F/AWA/ST2	7 x 2,5	18,7		152	565	7,41	9
105.	BCL2/PVC/PVC-F/AWA/ST2	8 x 2,5	20,9		174	691	7,41	9
106.	BCL2/PVC/PVC-F/AWA/ST2	9 x 2,5	20,9		196	708	7,41	9
107.	BCL2/PVC/PVC-F/AWA/ST2	10 x 2,5	23,6		217	882	7,41	9
108.	BCL2/PVC/PVC-F/AWA/ST2	12 x 2,5	24,1		261	948	7,41	9
109.	BCL2/PVC/PVC-F/AWA/ST2	14 x 2,5	25,1		304	1.041	7,41	9
110.	BCL2/PVC/PVC-F/AWA/ST2	16 x 2,5	26,1		348	1.142	7,41	9
111.	BCL2/PVC/PVC-F/AWA/ST2	18 x 2,5	27,2		391	1.247	7,41	9
112.	BCL2/PVC/PVC-F/AWA/ST2	19 x 2,5	27,2		413	1.264	7,41	9
113.	BCL2/PVC/PVC-F/AWA/ST2	24 x 2,5	30,9		522	1.626	7,41	9
114.	BCL2/PVC/PVC-F/AWA/ST2	27 x 2,5	31,7		587	1.734	7,41	8
115.	BCL2/PVC/PVC-F/AWA/ST2	33 x 2,5	34,6		717	2.099	7,41	8
116.	BCL2/PVC/PVC-F/AWA/ST2	37 x 2,5	36,1		804	2.295	7,41	8
117.	BCL2/PVC/PVC-F/AWA/ST2	48 x 2,5	40,7		1.043	2.923	7,41	7
118.	BCL2/PVC/PVC-F/AWA/ST2	61 x 2,5	43,9		1.326	3.476	7,41	7
119.	BCL2/PVC/PVC-F/AWA/ST2	6 x 4	22,8		211	833	4,61	15
120.	BCL2/PVC/PVC-F/AWA/ST2	7 x 4	22,8		246	859	4,61	13
121.	BCL2/PVC/PVC-F/AWA/ST2	8 x 4	25,6		282	1.054	4,61	13
122.	BCL2/PVC/PVC-F/AWA/ST2	9 x 4	25,6		317	1.082	4,61	13
123.	BCL2/PVC/PVC-F/AWA/ST2	10 x 4	27,3		352	1.225	4,61	13
124.	BCL2/PVC/PVC-F/AWA/ST2	12 x 4	28,2		423	1.344	4,61	13
125.	BCL2/PVC/PVC-F/AWA/ST2	14 x 4	29,4		493	1.482	4,61	13
126.	BCL2/PVC/PVC-F/AWA/ST2	16 x 4	30,7		563	1.638	4,61	13
127.	BCL2/PVC/PVC-F/AWA/ST2	18 x 4	32,3		634	1.810	4,61	13
128.	BCL2/PVC/PVC-F/AWA/ST2	19 x 4	32,3		669	1.836	4,61	13
129.	BCL2/PVC/PVC-F/AWA/ST2	24 x 4	38,4		845	2.540	4,61	13
130.	BCL2/PVC/PVC-F/AWA/ST2	27 x 4	39,1		951	2.688	4,61	11
131.	BCL2/PVC/PVC-F/AWA/ST2	33 x 4	41,7		1.162	3.113	4,61	11
132.	BCL2/PVC/PVC-F/AWA/ST2	37 x 4	43,1		1.303	3.364	4,61	11
133.	BCL2/PVC/PVC-F/AWA/ST2	48 x 4	50,3		1.690	4.544	4,61	9
134.	BCL2/PVC/PVC-F/AWA/ST2	61 x 4	54,3		2.148	5.412	4,61	9

BCL2 : Bare class 2 copper wire

BCCU : Bare compacted class 2 copper wire

BSCU : Bare sector shaped compacted class 2 copper wire