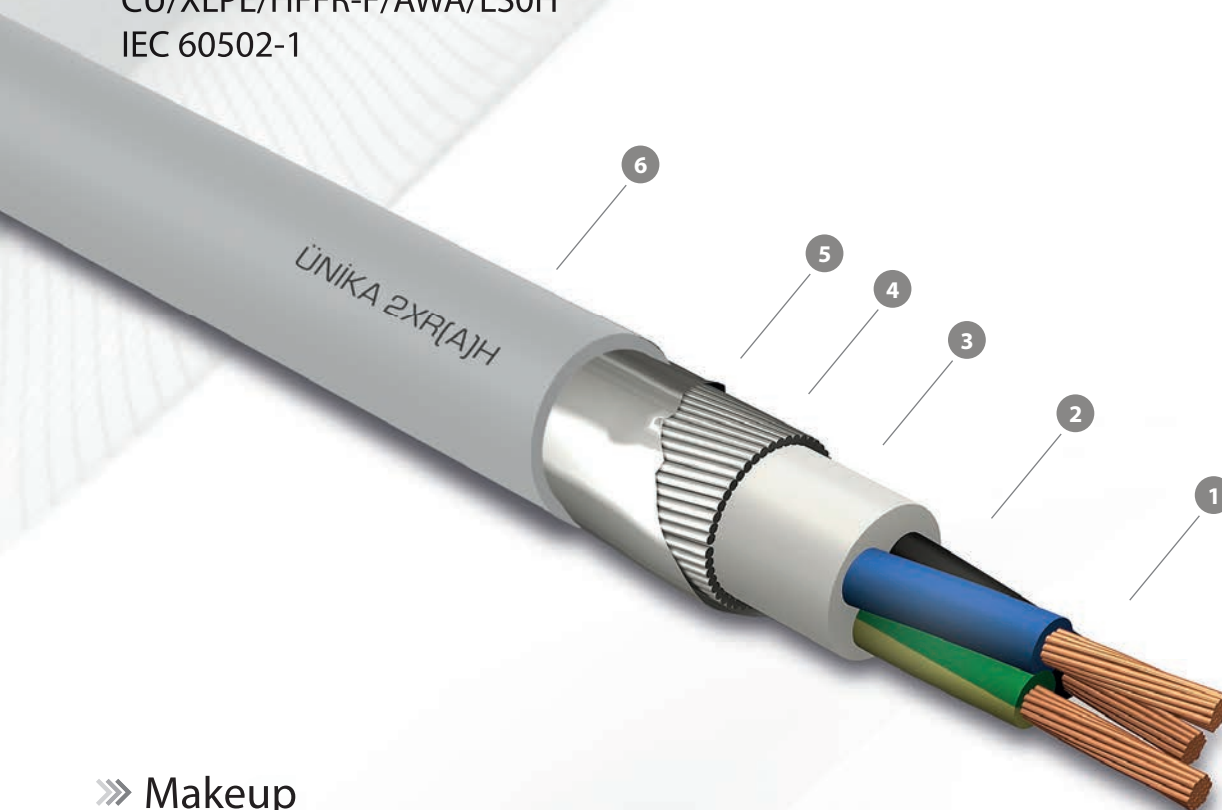


OIL and GAS ONSHORE POWER CABLES

U-2XOHFAL / 2XR(A)H 0,6/1kV
 CU/XLPE/HFFR-F/AWA/LSOH
 IEC 60502-1



»» Makeup

- 1 **Conductor** : Annealed circular stranded or compact copper wires complying with IEC 60228 Class 2
- 2 **Insulation** : Cross-linked polyethylene, XLPE in accordance with IEC 60502-1
- 3 **Bedding** : Halogen-free compound
- 4 **Armour** : Aluminium wire in accordance with IEC 60502-1
- 5 **Tape** : Polyester or aluminium wrapping tape
- 6 **Outer Jacket** : Halogen-free compound ST8 in accordance with IEC 60502-1

»» Technical Features

Operating Temperature : -15/90 °C

Rated Voltage : 0,6/1 kV

Design Guide : IEC 60502-1

Halogen Free Properties : IEC 60754-1 & IEC 60754-2

Low Smoke Emission : IEC 61034-1 & IEC 61034-2

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)

Cold Bend : CSA C22.2 No. 0.3-09 (-40°C) Optional

Cold Impact : CSA C22.2 No. 0.3-09 (-35°C) Optional

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-2XOHFAL / 2XR(A)H 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/XLPE/HFFR-F/AWA/ST8	1 x 1,5	10,0		13	134	12,1	23
2.	BCL2/XLPE/HFFR-F/AWA/ST8	1 x 2,5	10,4		22	152	7,41	30
3.	BCL2/XLPE/HFFR-F/AWA/ST8	1 x 4	11,0		35	176	4,61	40
4.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 6	11,4		52	201	3,08	52
5.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 10	12,2		87	252	1,83	72
6.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 16	13,1		136	320	1,15	96
7.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 25	14,7		216	437	0,727	127
8.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 35	16,7		302	592	0,524	157
9.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 50	18,0		408	731	0,387	196
10.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 70	19,8		588	961	0,268	242
11.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 95	22,8		822	1.315	0,193	293
12.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 120	24,4		1.033	1.578	0,153	339
13.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 150	26,2		1.270	1.873	0,124	389
14.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 185	28,4		1.588	2.274	0,0991	444
15.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 240	30,9		2.086	2.856	0,0754	522
16.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 300	34,5		2.618	3.589	0,0601	601
17.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 400	38,1		3.343	4.487	0,047	719
18.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 500	41,7		4.292	5.595	0,0366	827
19.	BCCU/XLPE/HFFR-F/AWA/ST8	1 x 630	47,0		5.540	7.204	0,0283	955
20.	BCL2/XLPE/HFFR-F/AWA/ST8	2 x 1,5	13,0		27	230	12,1	20
21.	BCL2/XLPE/HFFR-F/AWA/ST8	2 x 2,5	13,8		43	270	7,41	26
22.	BCL2/XLPE/HFFR-F/AWA/ST8	2 x 4	14,9		70	328	4,61	34
23.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 6	16,6		106	432	3,08	44
24.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 10	18,2		176	559	1,83	61
25.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 16	20,0		274	722	1,15	82
26.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 25	24,5		435	1.104	0,727	108
27.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 35	26,7		607	1.379	0,524	133
28.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 50	29,5		820	1.742	0,387	167
29.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 70	34,3		1.183	2.424	0,268	206
30.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 95	38,3		1.653	3.165	0,193	249
31.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 120	41,7		2.078	3.841	0,153	288
32.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 150	46,7		2.554	4.797	0,124	331
33.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 185	51,3		3.194	5.854	0,0991	377
34.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 240	56,7		4.197	7.370	0,0754	444
35.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 300	62,3		5.266	9.031	0,0601	511
36.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 400	68,7		6.725	11.225	0,047	611
37.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 500	77,8		8.635	14.442	0,0366	703
38.	BCCU/XLPE/HFFR-F/AWA/ST8	2 x 630	86,0		11.145	18.099	0,0283	812
39.	BCL2/XLPE/HFFR-F/AWA/ST8	3 x 1,5	13,4		40	252	12,1	16
40.	BCL2/XLPE/HFFR-F/AWA/ST8	3 x 2,5	14,3		65	302	7,41	21
41.	BCL2/XLPE/HFFR-F/AWA/ST8	3 x 4	16,4		105	418	4,61	28
42.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 6	17,2		158	497	3,08	36
43.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 10	18,9		264	662	1,83	50
44.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 16	20,9		411	874	1,15	67
45.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 25	25,6		652	1.344	0,727	89

BCL2 : Bare class 2 copper wire

BCCU : Bare compacted class 2 copper wire

BSCU : Bare sector shaped compacted class 2 copper wire

U-2XOHFAL / 2XR(A)H 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.					
46.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 35	28,2		910	1.723	0,524	110
47.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 50	31,2		1.230	2.193	0,387	137
48.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 70	36,5		1.774	3.089	0,268	169
49.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 95	40,5		2.478	4.047	0,193	205
50.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 120	44,2		3.117	4.927	0,153	237
51.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 150	49,9		3.830	6.193	0,124	272
52.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 185	54,4		4.789	7.514	0,0991	311
53.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 240	60,6		6.294	9.586	0,0754	365
54.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 300	66,1		7.897	11.734	0,0601	421
55.	BCCU/XLPE/HFFR-F/AWA/ST8	3 x 400	74,5		10.085	14.977	0,047	503
56.	BCL2/XLPE/HFFR-F/AWA/ST8	4 x 1,5	14,2		54	287	12,1	16
57.	BCL2/XLPE/HFFR-F/AWA/ST8	4 x 2,5	15,2		87	348	7,41	21
58.	BCL2/XLPE/HFFR-F/AWA/ST8	4 x 4	17,4		141	487	4,61	28
59.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 6	18,3		211	587	3,08	36
60.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 10	20,3		352	793	1,83	50
61.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 16	23,7		549	1.144	1,15	67
62.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 25	27,6		870	1.646	0,727	89
63.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 35	30,5		1.215	2.124	0,524	110
64.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 50	34,8		1.641	2.827	0,387	137
65.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 70	39,7		2.368	3.866	0,268	169
66.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 95	44,2		3.308	5.079	0,193	205
67.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 120	49,9		4.160	6.470	0,153	137
68.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 150	54,5		5.112	7.778	0,124	272
69.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 185	60,1		6.392	9.591	0,0991	311
70.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 240	66,5		8.400	12.186	0,0754	365
71.	BCCU/XLPE/HFFR-F/AWA/ST8	4 x 300	74,2		10.540	15.288	0,0601	421
72.	BCL2/XLPE/HFFR-F/AWA/ST8	5 x 1,5	15,1		67	327	12,1	13
73.	BCL2/XLPE/HFFR-F/AWA/ST8	5 x 2,5	17,1		109	447	7,41	17
74.	BCL2/XLPE/HFFR-F/AWA/ST8	5 x 4	18,5		176	563	4,61	22
75.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 6	19,6		264	685	3,08	29
76.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 10	23,0		441	1.015	1,83	40
77.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 16	25,5		687	1.361	1,15	54
78.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 25	30,0		1.088	1.985	0,727	71
79.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 35	34,0		1.520	2.659	0,524	88
80.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 50	38,3		2.054	3.465	0,387	110
81.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 70	43,5		2.963	4.711	0,268	136
82.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 95	49,9		4.139	6.449	0,193	164
83.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 120	54,4		5.205	7.866	0,153	190
84.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 150	60,1		6.397	9.598	0,124	218
85.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 185	65,9		7.999	11.754	0,0991	249
86.	BCCU/XLPE/HFFR-F/AWA/ST8	5 x 240	74,6		10.511	15.319	0,0754	292
87.	BCL2/XLPE/HFFR-F/AWA/ST8	6 x 1,5	16,8		81	413	12,1	11
88.	BCL2/XLPE/HFFR-F/AWA/ST8	7 x 1,5	16,8		94	420	12,1	11
89.	BCL2/XLPE/HFFR-F/AWA/ST8	8 x 1,5	18,6		108	512	12,1	11
90.	BCL2/XLPE/HFFR-F/AWA/ST8	9 x 1,5	18,6		121	521	12,1	11

BCL2 : Bare class 2 copper wire

BCCU : Bare compacted class 2 copper wire

BSCU : Bare sector shaped compacted class 2 copper wire

U-2XOHFAL / 2XR(A)H 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/XLPE/HFFR-F/AWA/ST8	10 x 1,5	19,8		135	585	12,1	11
92.	BCL2/XLPE/HFFR-F/AWA/ST8	12 x 1,5	20,3		162	623	12,1	11
93.	BCL2/XLPE/HFFR-F/AWA/ST8	14 x 1,5	21,0		189	680	12,1	11
94.	BCL2/XLPE/HFFR-F/AWA/ST8	16 x 1,5	23,2		216	818	12,1	11
95.	BCL2/XLPE/HFFR-F/AWA/ST8	18 x 1,5	24,1		243	888	12,1	11
96.	BCL2/XLPE/HFFR-F/AWA/ST8	19 x 1,5	24,1		256	896	12,1	11
97.	BCL2/XLPE/HFFR-F/AWA/ST8	24 x 1,5	27,0		324	1.130	12,1	11
98.	BCL2/XLPE/HFFR-F/AWA/ST8	27 x 1,5	27,5		364	1.186	12,1	10
99.	BCL2/XLPE/HFFR-F/AWA/ST8	33 x 1,5	29,3		445	1.361	12,1	10
100.	BCL2/XLPE/HFFR-F/AWA/ST8	37 x 1,5	30,2		499	1.461	12,1	10
101.	BCL2/XLPE/HFFR-F/AWA/ST8	48 x 1,5	34,8		648	1.939	12,1	8
102.	BCL2/XLPE/HFFR-F/AWA/ST8	61 x 1,5	37,9		823	2.328	12,1	8
103.	BCL2/XLPE/HFFR-F/AWA/ST8	6 x 2,5	18,1		130	504	7,41	15
104.	BCL2/XLPE/HFFR-F/AWA/ST8	7 x 2,5	18,1		152	518	7,41	15
105.	BCL2/XLPE/HFFR-F/AWA/ST8	8 x 2,5	20,2		174	635	7,41	15
106.	BCL2/XLPE/HFFR-F/AWA/ST8	9 x 2,5	20,2		196	649	7,41	15
107.	BCL2/XLPE/HFFR-F/AWA/ST8	10 x 2,5	22,8		217	811	7,41	15
108.	BCL2/XLPE/HFFR-F/AWA/ST8	12 x 2,5	23,3		261	869	7,41	15
109.	BCL2/XLPE/HFFR-F/AWA/ST8	14 x 2,5	24,2		304	946	7,41	15
110.	BCL2/XLPE/HFFR-F/AWA/ST8	16 x 2,5	25,1		348	1.035	7,41	15
111.	BCL2/XLPE/HFFR-F/AWA/ST8	18 x 2,5	26,2		391	1.128	7,41	15
112.	BCL2/XLPE/HFFR-F/AWA/ST8	19 x 2,5	26,2		413	1.142	7,41	15
113.	BCL2/XLPE/HFFR-F/AWA/ST8	24 x 2,5	29,7		522	1.467	7,41	15
114.	BCL2/XLPE/HFFR-F/AWA/ST8	27 x 2,5	30,3		587	1.547	7,41	13
115.	BCL2/XLPE/HFFR-F/AWA/ST8	33 x 2,5	32,3		717	1.787	7,41	13
116.	BCL2/XLPE/HFFR-F/AWA/ST8	37 x 2,5	34,3		804	2.026	7,41	13
117.	BCL2/XLPE/HFFR-F/AWA/ST8	48 x 2,5	38,8		1.043	2.596	7,41	11
118.	BCL2/XLPE/HFFR-F/AWA/ST8	61 x 2,5	41,9		1.326	3.080	7,41	11
119.	BCL2/XLPE/HFFR-F/AWA/ST8	6 x 4	19,7		211	641	4,61	20
120.	BCL2/XLPE/HFFR-F/AWA/ST8	7 x 4	19,7		246	665	4,61	20
121.	BCL2/XLPE/HFFR-F/AWA/ST8	8 x 4	23,4		282	897	4,61	20
122.	BCL2/XLPE/HFFR-F/AWA/ST8	9 x 4	23,4		317	922	4,61	20
123.	BCL2/XLPE/HFFR-F/AWA/ST8	10 x 4	24,9		352	1.039	4,61	20
124.	BCL2/XLPE/HFFR-F/AWA/ST8	12 x 4	25,5		423	1.124	4,61	20
125.	BCL2/XLPE/HFFR-F/AWA/ST8	14 x 4	26,6		493	1.239	4,61	20
126.	BCL2/XLPE/HFFR-F/AWA/ST8	16 x 4	27,7		563	1.363	4,61	20
127.	BCL2/XLPE/HFFR-F/AWA/ST8	18 x 4	29,1		634	1.506	4,61	20
128.	BCL2/XLPE/HFFR-F/AWA/ST8	19 x 4	29,1		669	1.530	4,61	20
129.	BCL2/XLPE/HFFR-F/AWA/ST8	24 x 4	34,0		845	2.056	4,61	20
130.	BCL2/XLPE/HFFR-F/AWA/ST8	27 x 4	34,8		951	2.197	4,61	17
131.	BCL2/XLPE/HFFR-F/AWA/ST8	33 x 4	37,5		1.162	2.588	4,61	17
132.	BCL2/XLPE/HFFR-F/AWA/ST8	37 x 4	38,7		1.303	2.797	4,61	17
133.	BCL2/XLPE/HFFR-F/AWA/ST8	48 x 4	43,6		1.690	3.557	4,61	14
134.	BCL2/XLPE/HFFR-F/AWA/ST8	61 x 4	48,5		2.148	4.473	4,61	14

BCL2 : Bare class 2 copper wire

BCCU : Bare compacted class 2 copper wire

BSCU : Bare sector shaped compacted class 2 copper wire