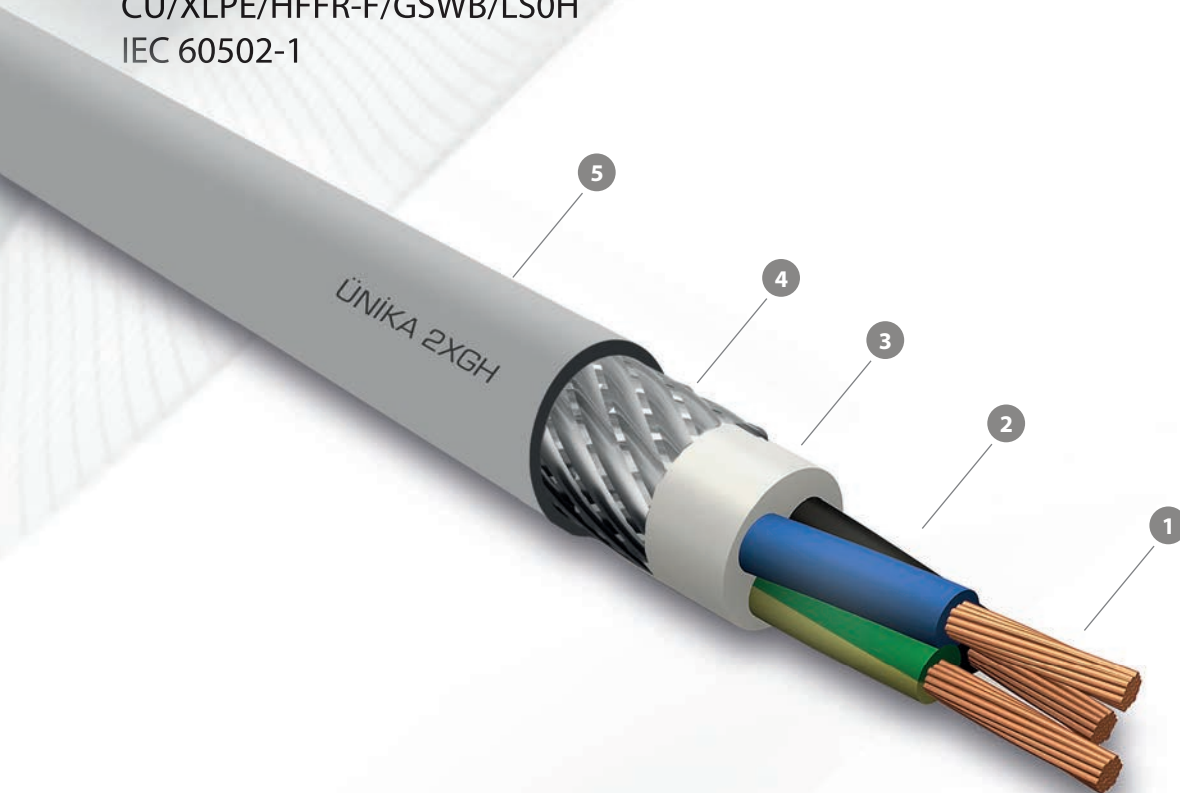


# OIL and GAS ONSHORE POWER CABLES

U-2XOHFG / 2XGH 0,6/1kV  
 CU/XLPE/HFFR-F/GSWB/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** : Galvanised Steel wire braid
- 5 **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-2XOHFG / 2XGH 0,6/1kV CABLE DATA SHEET

Item	Construction	Cross-section (mm <sup>2</sup> )	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/GSWB/ST8	1 x 1,5	9,2		13	120	12,1	23
2.	BCL2/XLPE/HFFR-F/GSWB/ST8	1 x 2,5	9,6		22	137	7,41	30
3.	BCL2/XLPE/HFFR-F/GSWB/ST8	1 x 4	10,2		35	161	4,61	40
4.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 6	10,6		52	186	3,08	52
5.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 10	11,4		87	236	1,83	72
6.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 16	12,3		136	303	1,15	96
7.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 25	13,9		216	419	0,727	127
8.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 35	15,0		302	526	0,524	157
9.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 50	16,7		408	691	0,387	196
10.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 70	18,5		588	915	0,268	242
11.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 95	20,2		822	1.188	0,193	293
12.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 120	21,8		1.033	1.443	0,153	339
13.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 150	23,6		1.270	1.730	0,124	389
14.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 185	25,6		1.588	2.105	0,0991	444
15.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 240	28,3		2.086	2.684	0,0754	522
16.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 300	30,7		2.618	3.282	0,0601	601
17.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 400	34,5		3.343	4.165	0,047	719
18.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 500	38,5		4.292	5.320	0,0366	827
19.	BCCU/XLPE/HFFR-F/GSWB/ST8	1 x 630	42,6		5.540	6.728	0,0283	955
20.	BCL2/XLPE/HFFR-F/GSWB/ST8	2 x 1,5	12,2		27	212	12,1	20
21.	BCL2/XLPE/HFFR-F/GSWB/ST8	2 x 2,5	13,0		43	251	7,41	26
22.	BCL2/XLPE/HFFR-F/GSWB/ST8	2 x 4	14,1		70	309	4,61	34
23.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 6	14,9		106	366	3,08	44
24.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 10	16,9		176	517	1,83	61
25.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 16	18,7		274	678	1,15	82
26.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 25	21,9		435	969	0,727	108
27.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 35	24,1		607	1.234	0,524	133
28.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 50	26,7		820	1.567	0,387	167
29.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 70	30,5		1.183	2.126	0,268	206
30.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 95	34,7		1.653	2.843	0,193	249
31.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 120	38,5		2.078	3.566	0,153	288
32.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 150	42,3		2.554	4.320	0,124	331
33.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 185	47,1		3.194	5.356	0,0991	377
34.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 240	52,3		4.197	6.794	0,0754	444
35.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 300	57,9		5.266	8.400	0,0601	511
36.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 400	64,3		6.725	10.519	0,047	611
37.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 500	72,1		8.635	13.341	0,0366	703
38.	BCCU/XLPE/HFFR-F/GSWB/ST8	2 x 630	80,5		11.145	16.900	0,0283	812
39.	BCL2/XLPE/HFFR-F/GSWB/ST8	3 x 1,5	12,6		40	234	12,1	16
40.	BCL2/XLPE/HFFR-F/GSWB/ST8	3 x 2,5	13,5		65	283	7,41	21
41.	BCL2/XLPE/HFFR-F/GSWB/ST8	3 x 4	14,7		105	354	4,61	28
42.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 6	15,9		158	459	3,08	36
43.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 10	17,6		264	618	1,83	50
44.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 16	19,6		411	829	1,15	67
45.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 25	23,0		652	1.203	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-2XOHFG / 2XGH 0,6/1kV CABLE DATA SHEET

Item	Construction	Cross-section (mm <sup>2</sup> )	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/XLPE/HFFR-F/GSWB/ST8	3 x 35	25,4		910	1.554	0,524	110
47.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 50	28,4		1.230	2.007	0,387	137
48.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 70	32,9		1.774	2.780	0,268	169
49.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 95	37,3		2.478	3.773	0,193	205
50.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 120	41,0		3.117	4.640	0,153	237
51.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 150	45,5		3.830	5.677	0,124	272
52.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 185	50,2		4.789	6.993	0,0991	311
53.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 240	56,4		6.294	9.007	0,0754	365
54.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 300	61,9		7.897	11.084	0,0601	421
55.	BCCU/XLPE/HFFR-F/GSWB/ST8	3 x 400	68,8		10.085	13.923	0,047	503
56.	BCL2/XLPE/HFFR-F/GSWB/ST8	4 x 1,5	13,4		54	268	12,1	16
57.	BCL2/XLPE/HFFR-F/GSWB/ST8	4 x 2,5	14,4		87	328	7,41	21
58.	BCL2/XLPE/HFFR-F/GSWB/ST8	4 x 4	16,1		141	447	4,61	28
59.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 6	17,0		211	546	3,08	36
60.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 10	19,0		352	749	1,83	50
61.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 16	21,1		549	1.017	1,15	67
62.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 25	25,0		870	1.494	0,727	89
63.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 35	27,7		1.215	1.942	0,524	110
64.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 50	31,2		1.641	2.536	0,387	137
65.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 70	36,5		2.368	3.601	0,268	169
66.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 95	41,0		3.308	4.794	0,193	205
67.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 120	45,5		4.160	5.954	0,153	137
68.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 150	50,3		5.112	7.257	0,124	272
69.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 185	55,9		6.392	9.004	0,0991	311
70.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 240	62,3		8.400	11.541	0,0754	365
71.	BCCU/XLPE/HFFR-F/GSWB/ST8	4 x 300	68,5		10.540	14.233	0,0601	421
72.	BCL2/XLPE/HFFR-F/GSWB/ST8	5 x 1,5	14,3		67	307	12,1	13
73.	BCL2/XLPE/HFFR-F/GSWB/ST8	5 x 2,5	15,8		109	409	7,41	17
74.	BCL2/XLPE/HFFR-F/GSWB/ST8	5 x 4	17,2		176	520	4,61	22
75.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 6	18,3		264	641	3,08	29
76.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 10	20,4		441	890	1,83	40
77.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 16	22,9		687	1.221	1,15	54
78.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 25	27,2		1.088	1.807	0,727	71
79.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 35	30,4		1.520	2.375	0,524	88
80.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 50	34,7		2.054	3.143	0,387	110
81.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 70	40,3		2.963	4.428	0,268	136
82.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 95	45,5		4.139	5.933	0,193	164
83.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 120	50,2		5.205	7.345	0,153	190
84.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 150	55,9		6.397	9.011	0,124	218
85.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 185	61,5		7.999	11.088	0,0991	249
86.	BCCU/XLPE/HFFR-F/GSWB/ST8	5 x 240	68,9		10.511	14.266	0,0754	292
87.	BCL2/XLPE/HFFR-F/GSWB/ST8	6 x 1,5	15,5		81	376	12,1	11
88.	BCL2/XLPE/HFFR-F/GSWB/ST8	7 x 1,5	15,5		94	384	12,1	11
89.	BCL2/XLPE/HFFR-F/GSWB/ST8	8 x 1,5	17,3		108	470	12,1	11
90.	BCL2/XLPE/HFFR-F/GSWB/ST8	9 x 1,5	17,3		121	479	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-2XOHFG / 2XGH 0,6/1kV CABLE DATA SHEET

Item	Construction	Cross-section (mm <sup>2</sup> )	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/GSWB/ST8	10 x 1,5	18,5		135	540	12,1	11
92.	BCL2/XLPE/HFFR-F/GSWB/ST8	12 x 1,5	19,0		162	579	12,1	11
93.	BCL2/XLPE/HFFR-F/GSWB/ST8	14 x 1,5	19,7		189	632	12,1	11
94.	BCL2/XLPE/HFFR-F/GSWB/ST8	16 x 1,5	20,6		216	693	12,1	11
95.	BCL2/XLPE/HFFR-F/GSWB/ST8	18 x 1,5	21,5		243	756	12,1	11
96.	BCL2/XLPE/HFFR-F/GSWB/ST8	19 x 1,5	21,5		256	764	12,1	11
97.	BCL2/XLPE/HFFR-F/GSWB/ST8	24 x 1,5	24,4		324	980	12,1	11
98.	BCL2/XLPE/HFFR-F/GSWB/ST8	27 x 1,5	24,9		364	1.033	12,1	10
99.	BCL2/XLPE/HFFR-F/GSWB/ST8	33 x 1,5	26,5		445	1.185	12,1	10
100.	BCL2/XLPE/HFFR-F/GSWB/ST8	37 x 1,5	27,4		499	1.278	12,1	10
101.	BCL2/XLPE/HFFR-F/GSWB/ST8	48 x 1,5	31,2		648	1.647	12,1	8
102.	BCL2/XLPE/HFFR-F/GSWB/ST8	61 x 1,5	34,3		823	2.005	12,1	8
103.	BCL2/XLPE/HFFR-F/GSWB/ST8	6 x 2,5	16,8		130	465	7,41	15
104.	BCL2/XLPE/HFFR-F/GSWB/ST8	7 x 2,5	16,8		152	479	7,41	15
105.	BCL2/XLPE/HFFR-F/GSWB/ST8	8 x 2,5	18,9		174	588	7,41	15
106.	BCL2/XLPE/HFFR-F/GSWB/ST8	9 x 2,5	18,9		196	603	7,41	15
107.	BCL2/XLPE/HFFR-F/GSWB/ST8	10 x 2,5	20,2		217	683	7,41	15
108.	BCL2/XLPE/HFFR-F/GSWB/ST8	12 x 2,5	20,7		261	739	7,41	15
109.	BCL2/XLPE/HFFR-F/GSWB/ST8	14 x 2,5	21,6		304	815	7,41	15
110.	BCL2/XLPE/HFFR-F/GSWB/ST8	16 x 2,5	22,5		348	897	7,41	15
111.	BCL2/XLPE/HFFR-F/GSWB/ST8	18 x 2,5	23,6		391	986	7,41	15
112.	BCL2/XLPE/HFFR-F/GSWB/ST8	19 x 2,5	23,6		413	999	7,41	15
113.	BCL2/XLPE/HFFR-F/GSWB/ST8	24 x 2,5	26,9		522	1.287	7,41	15
114.	BCL2/XLPE/HFFR-F/GSWB/ST8	27 x 2,5	27,5		587	1.365	7,41	13
115.	BCL2/XLPE/HFFR-F/GSWB/ST8	33 x 2,5	29,5		717	1.594	7,41	13
116.	BCL2/XLPE/HFFR-F/GSWB/ST8	37 x 2,5	30,5		804	1.727	7,41	13
117.	BCL2/XLPE/HFFR-F/GSWB/ST8	48 x 2,5	35,2		1.043	2.268	7,41	11
118.	BCL2/XLPE/HFFR-F/GSWB/ST8	61 x 2,5	38,7		1.326	2.808	7,41	11
119.	BCL2/XLPE/HFFR-F/GSWB/ST8	6 x 4	18,4		211	599	4,61	20
120.	BCL2/XLPE/HFFR-F/GSWB/ST8	7 x 4	18,4		246	623	4,61	20
121.	BCL2/XLPE/HFFR-F/GSWB/ST8	8 x 4	20,8		282	767	4,61	20
122.	BCL2/XLPE/HFFR-F/GSWB/ST8	9 x 4	20,8		317	792	4,61	20
123.	BCL2/XLPE/HFFR-F/GSWB/ST8	10 x 4	22,3		352	900	4,61	20
124.	BCL2/XLPE/HFFR-F/GSWB/ST8	12 x 4	22,9		423	984	4,61	20
125.	BCL2/XLPE/HFFR-F/GSWB/ST8	14 x 4	24,0		493	1.092	4,61	20
126.	BCL2/XLPE/HFFR-F/GSWB/ST8	16 x 4	25,1		563	1.211	4,61	20
127.	BCL2/XLPE/HFFR-F/GSWB/ST8	18 x 4	26,3		634	1.334	4,61	20
128.	BCL2/XLPE/HFFR-F/GSWB/ST8	19 x 4	26,3		669	1.358	4,61	20
129.	BCL2/XLPE/HFFR-F/GSWB/ST8	24 x 4	30,4		845	1.773	4,61	20
130.	BCL2/XLPE/HFFR-F/GSWB/ST8	27 x 4	31,2		951	1.905	4,61	17
131.	BCL2/XLPE/HFFR-F/GSWB/ST8	33 x 4	33,7		1.162	2.256	4,61	17
132.	BCL2/XLPE/HFFR-F/GSWB/ST8	37 x 4	35,1		1.303	2.470	4,61	17
133.	BCL2/XLPE/HFFR-F/GSWB/ST8	48 x 4	40,4		1.690	3.274	4,61	14
134.	BCL2/XLPE/HFFR-F/GSWB/ST8	61 x 4	44,3		2.148	4.000	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