

U-2XOVAL / 2XR(A)Y 0,6/1kV  
 CU/XLPE/PVC-F/AWA/PVC  
 IEC 60502-1



## »» Makeup

- ❶ **Conductor** : Annealed circular stranded or compact copper wires complying with IEC 60228 Class 2
- ❷ **Insulation** : Cross-linked polyethylene, XLPE in accordance with IEC 60502-1
- ❸ **Bedding** : Polyvinyl chloride (PVC ) compound
- ❹ **Armour** : Aluminium wire in accordance with IEC 60502-1
- ❺ **Tape** : Polyester or aluminium wrapping tape
- ❻ **Outer Jacket** : Polyvinyl chloride (PVC ) compound ST2 in accordance with IEC 60502-1

## »» Technical Features

**Operating Temperature** : -15/90 °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 )

**Cold Bend** : IEC 60811-504 ( -40°C ) Optional

**Cold Impact** : IEC 60811-506 ( -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-2XOVAL / 2XR(A)Y 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.					
1.	BCL2/XLPE/PVC-F/AWA/ST2	1 x 1,5	10,0		13	132	12,1	23
2.	BCL2/XLPE/PVC-F/AWA/ST2	1 x 2,5	10,4		22	149	7,41	30
3.	BCL2/XLPE/PVC-F/AWA/ST2	1 x 4	11,0		35	173	4,61	40
4.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 6	11,4		52	198	3,08	52
5.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 10	12,2		87	249	1,83	72
6.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 16	13,1		136	317	1,15	96
7.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 25	14,7		216	434	0,727	127
8.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 35	16,7		302	588	0,524	157
9.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 50	18,0		408	727	0,387	196
10.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 70	19,8		588	956	0,268	242
11.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 95	22,8		822	1.310	0,193	293
12.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 120	24,4		1.033	1.572	0,153	339
13.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 150	26,2		1.270	1.867	0,124	389
14.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 185	28,4		1.588	2.266	0,0991	444
15.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 240	30,9		2.086	2.848	0,0754	522
16.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 300	34,5		2.618	3.579	0,0601	601
17.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 400	38,1		3.343	4.475	0,047	719
18.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 500	41,7		4.292	5.582	0,0366	827
19.	BCCU/XLPE/PVC-F/AWA/ST2	1 x 630	47,0		5.540	7.188	0,0283	955
20.	BCL2/XLPE/PVC-F/AWA/ST2	2 x 1,5	13,0		27	228	12,1	20
21.	BCL2/XLPE/PVC-F/AWA/ST2	2 x 2,5	13,8		43	267	7,41	26
22.	BCL2/XLPE/PVC-F/AWA/ST2	2 x 4	14,9		70	326	4,61	34
23.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 6	16,6		106	429	3,08	44
24.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 10	18,2		176	556	1,83	61
25.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 16	20,0		274	719	1,15	82
26.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 25	24,5		435	1.101	0,727	108
27.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 35	26,7		607	1.378	0,524	133
28.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 50	29,5		820	1.741	0,387	167
29.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 70	34,3		1.183	2.423	0,268	206
30.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 95	38,3		1.653	3.165	0,193	249
31.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 120	41,7		2.078	3.842	0,153	288
32.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 150	46,7		2.554	4.798	0,124	331
33.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 185	51,3		3.194	5.859	0,0991	377
34.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 240	56,7		4.197	7.377	0,0754	444
35.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 300	62,3		5.266	9.042	0,0601	511
36.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 400	68,7		6.725	11.240	0,047	611
37.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 500	77,8		8.635	14.463	0,0366	703
38.	BCCU/XLPE/PVC-F/AWA/ST2	2 x 630	86,0		11.145	18.129	0,0283	812
39.	BCL2/XLPE/PVC-F/AWA/ST2	3 x 1,5	13,4		40	249	12,1	16
40.	BCL2/XLPE/PVC-F/AWA/ST2	3 x 2,5	14,3		65	299	7,41	21
41.	BCL2/XLPE/PVC-F/AWA/ST2	3 x 4	16,4		105	415	4,61	28
42.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 6	17,2		158	493	3,08	36
43.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 10	18,9		264	659	1,83	50
44.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 16	20,9		411	870	1,15	67
45.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 25	25,6		652	1.341	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-2XOVAL / 2XR(A)Y 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/PVC-F/AWA/ST2	3 x 35	28,2		910	1.719	0,524	110
47.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 50	31,2		1.230	2.189	0,387	137
48.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 70	36,5		1.774	3.086	0,268	169
49.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 95	40,5		2.478	4.044	0,193	205
50.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 120	44,2		3.117	4.924	0,153	237
51.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 150	49,9		3.830	6.190	0,124	272
52.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 185	54,4		4.789	7.512	0,0991	311
53.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 240	60,6		6.294	9.587	0,0754	365
54.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 300	66,1		7.897	11.735	0,0601	421
55.	BCCU/XLPE/PVC-F/AWA/ST2	3 x 400	74,5		10.085	14.978	0,047	503
56.	BCL2/XLPE/PVC-F/AWA/ST2	4 x 1,5	14,2		54	284	12,1	16
57.	BCL2/XLPE/PVC-F/AWA/ST2	4 x 2,5	15,2		87	345	7,41	21
58.	BCL2/XLPE/PVC-F/AWA/ST2	4 x 4	17,4		141	484	4,61	28
59.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 6	18,3		211	583	3,08	36
60.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 10	20,3		352	790	1,83	50
61.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 16	23,7		549	1.140	1,15	67
62.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 25	27,6		870	1.642	0,727	89
63.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 35	30,5		1.215	2.120	0,524	110
64.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 50	34,8		1.641	2.823	0,387	137
65.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 70	39,7		2.368	3.862	0,268	169
66.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 95	44,2		3.308	5.075	0,193	205
67.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 120	49,9		4.160	6.466	0,153	137
68.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 150	54,5		5.112	7.774	0,124	272
69.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 185	60,1		6.392	9.589	0,0991	311
70.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 240	66,5		8.400	12.184	0,0754	365
71.	BCCU/XLPE/PVC-F/AWA/ST2	4 x 300	74,2		10.540	15.285	0,0601	421
72.	BCL2/XLPE/PVC-F/AWA/ST2	5 x 1,5	15,1		67	324	12,1	13
73.	BCL2/XLPE/PVC-F/AWA/ST2	5 x 2,5	17,1		109	443	7,41	17
74.	BCL2/XLPE/PVC-F/AWA/ST2	5 x 4	18,5		176	560	4,61	22
75.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 6	19,6		264	681	3,08	29
76.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 10	23,0		441	1.011	1,83	40
77.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 16	25,5		687	1.358	1,15	54
78.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 25	30,0		1.088	1.981	0,727	71
79.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 35	34,0		1.520	2.655	0,524	88
80.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 50	38,3		2.054	3.461	0,387	110
81.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 70	43,5		2.963	4.707	0,268	136
82.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 95	49,9		4.139	6.444	0,193	164
83.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 120	54,4		5.205	7.862	0,153	190
84.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 150	60,1		6.397	9.596	0,124	218
85.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 185	65,9		7.999	11.752	0,0991	249
86.	BCCU/XLPE/PVC-F/AWA/ST2	5 x 240	74,6		10.511	15.317	0,0754	292
87.	BCL2/XLPE/PVC-F/AWA/ST2	6 x 1,5	16,8		81	409	12,1	11
88.	BCL2/XLPE/PVC-F/AWA/ST2	7 x 1,5	16,8		94	417	12,1	11
89.	BCL2/XLPE/PVC-F/AWA/ST2	8 x 1,5	18,6		108	509	12,1	11
90.	BCL2/XLPE/PVC-F/AWA/ST2	9 x 1,5	18,6		121	517	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-2XOVAL / 2XR(A)Y 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/PVC-F/AWA/ST2	10 x 1,5	19,8		135	582	12,1	11
92.	BCL2/XLPE/PVC-F/AWA/ST2	12 x 1,5	20,3		162	620	12,1	11
93.	BCL2/XLPE/PVC-F/AWA/ST2	14 x 1,5	21,0		189	676	12,1	11
94.	BCL2/XLPE/PVC-F/AWA/ST2	16 x 1,5	23,2		216	814	12,1	11
95.	BCL2/XLPE/PVC-F/AWA/ST2	18 x 1,5	24,1		243	884	12,1	11
96.	BCL2/XLPE/PVC-F/AWA/ST2	19 x 1,5	24,1		256	892	12,1	11
97.	BCL2/XLPE/PVC-F/AWA/ST2	24 x 1,5	27,0		324	1.127	12,1	11
98.	BCL2/XLPE/PVC-F/AWA/ST2	27 x 1,5	27,5		364	1.182	12,1	10
99.	BCL2/XLPE/PVC-F/AWA/ST2	33 x 1,5	29,3		445	1.357	12,1	10
100.	BCL2/XLPE/PVC-F/AWA/ST2	37 x 1,5	30,2		499	1.456	12,1	10
101.	BCL2/XLPE/PVC-F/AWA/ST2	48 x 1,5	34,8		648	1.933	12,1	8
102.	BCL2/XLPE/PVC-F/AWA/ST2	61 x 1,5	37,9		823	2.323	12,1	8
103.	BCL2/XLPE/PVC-F/AWA/ST2	6 x 2,5	18,1		130	501	7,41	15
104.	BCL2/XLPE/PVC-F/AWA/ST2	7 x 2,5	18,1		152	514	7,41	15
105.	BCL2/XLPE/PVC-F/AWA/ST2	8 x 2,5	20,2		174	632	7,41	15
106.	BCL2/XLPE/PVC-F/AWA/ST2	9 x 2,5	20,2		196	646	7,41	15
107.	BCL2/XLPE/PVC-F/AWA/ST2	10 x 2,5	22,8		217	807	7,41	15
108.	BCL2/XLPE/PVC-F/AWA/ST2	12 x 2,5	23,3		261	865	7,41	15
109.	BCL2/XLPE/PVC-F/AWA/ST2	14 x 2,5	24,2		304	942	7,41	15
110.	BCL2/XLPE/PVC-F/AWA/ST2	16 x 2,5	25,1		348	1.031	7,41	15
111.	BCL2/XLPE/PVC-F/AWA/ST2	18 x 2,5	26,2		391	1.124	7,41	15
112.	BCL2/XLPE/PVC-F/AWA/ST2	19 x 2,5	26,2		413	1.138	7,41	15
113.	BCL2/XLPE/PVC-F/AWA/ST2	24 x 2,5	29,7		522	1.463	7,41	15
114.	BCL2/XLPE/PVC-F/AWA/ST2	27 x 2,5	30,3		587	1.543	7,41	13
115.	BCL2/XLPE/PVC-F/AWA/ST2	33 x 2,5	32,3		717	1.782	7,41	13
116.	BCL2/XLPE/PVC-F/AWA/ST2	37 x 2,5	34,3		804	2.020	7,41	13
117.	BCL2/XLPE/PVC-F/AWA/ST2	48 x 2,5	38,8		1.043	2.591	7,41	11
118.	BCL2/XLPE/PVC-F/AWA/ST2	61 x 2,5	41,9		1.326	3.074	7,41	11
119.	BCL2/XLPE/PVC-F/AWA/ST2	6 x 4	19,7		211	638	4,61	20
120.	BCL2/XLPE/PVC-F/AWA/ST2	7 x 4	19,7		246	661	4,61	20
121.	BCL2/XLPE/PVC-F/AWA/ST2	8 x 4	23,4		282	894	4,61	20
122.	BCL2/XLPE/PVC-F/AWA/ST2	9 x 4	23,4		317	918	4,61	20
123.	BCL2/XLPE/PVC-F/AWA/ST2	10 x 4	24,9		352	1.036	4,61	20
124.	BCL2/XLPE/PVC-F/AWA/ST2	12 x 4	25,5		423	1.120	4,61	20
125.	BCL2/XLPE/PVC-F/AWA/ST2	14 x 4	26,6		493	1.235	4,61	20
126.	BCL2/XLPE/PVC-F/AWA/ST2	16 x 4	27,7		563	1.359	4,61	20
127.	BCL2/XLPE/PVC-F/AWA/ST2	18 x 4	29,1		634	1.502	4,61	20
128.	BCL2/XLPE/PVC-F/AWA/ST2	19 x 4	29,1		669	1.525	4,61	20
129.	BCL2/XLPE/PVC-F/AWA/ST2	24 x 4	34,0		845	2.053	4,61	20
130.	BCL2/XLPE/PVC-F/AWA/ST2	27 x 4	34,8		951	2.192	4,61	17
131.	BCL2/XLPE/PVC-F/AWA/ST2	33 x 4	37,5		1.162	2.583	4,61	17
132.	BCL2/XLPE/PVC-F/AWA/ST2	37 x 4	38,7		1.303	2.792	4,61	17
133.	BCL2/XLPE/PVC-F/AWA/ST2	48 x 4	43,6		1.690	3.551	4,61	14
134.	BCL2/XLPE/PVC-F/AWA/ST2	61 x 4	48,5		2.148	4.467	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