

CU/XLPE/LSOH

Cable refer to BS 8573
0.6/1kV



Certificate

Application

Unarmoured power cables with low emissions of smoke and acid gas for modular power and distribution for office buildings, commercial complex, theatres, hotels, hospitals, airports, metro, tunnels and public facilities where to guarantee safety evacuation of people exposing to risk of fire hazards. Suitable for fixed installation both indoor and outdoor, on tray, in pipe, in free air or clipped direct.

Construction

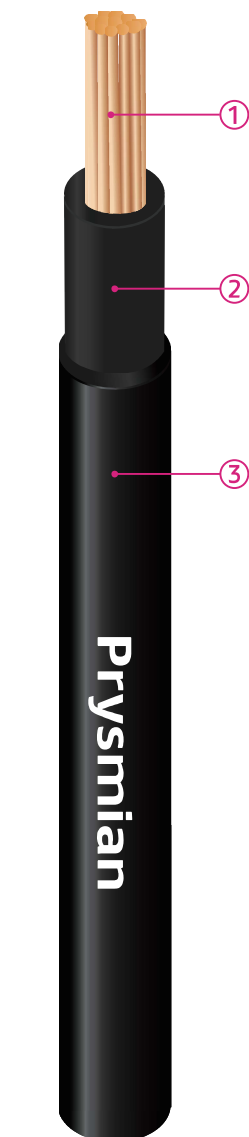
No.	Classification	Code	Construction detail
①	Conductor	CU	Annealed copper conductor BS EN60228(IEC60228) Class 2
②	Insulation	XLPE	XLPE according to BS 7655-1.3 GP8
③	Outer sheath	LSOH	LSOH according to BS7655-6.1 LTS 4 Sheath color: Black

Cable marking

The outer sheath is marked in embossed or link printed as follows:

EG:

Prysmian(S) BASEC CAD049 BS8573 ELECTRIC CABLE 600/1000V SIZE YYYY XXXXm





Core Identification

No. of cores	Detail
1 core	Black
Other Harmonized colours available as customer requirement	

Applicable Standards

Design guidelines	BS 8573
Flame retardant properties	IEC60332-1, IEC60332-3-24
Halogen properties	IEC60754-1, IEC60754-2
Smoke density	IEC61034-2
Low levels of Halogen(Fluorine)	IEC60684-2
Voltage test in water	IEC 60502-1
Insulation resistance	IEC 60502-1

Bending radius

Minimum bending radius	Cable diameter D mm	
	D ≤ 25	D > 25
Normal	4D	6D

Notes: D = overall diameter of cable

Technical Data

Rated voltage	0.6/1 kV
Test voltage	3.5kV/5min
Temperature range	-15°C-90°C

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No. of cores	×	C.S.A	Shape of Conductor	Diameter of Conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approx. overall diameter	Approx. weight	DC resistance at max.20°C
n		mm ²		mm	mm	mm	mm	Kg/km	Ω/km
1	×	6	Circular	3.1	0.7	1.4	8.2	117	3.08
1	×	10	Circular	4.0	0.7	1.4	9.2	165	1.83
1	×	16	Circular	5.1	0.7	1.4	10.3	230	1.15
1	×	25	Circular	6.4	0.9	1.4	11.6	325	0.727
1	×	35	Circular	7.5	0.9	1.4	12.7	425	0.524
1	×	50	Circular*	8.0	1.0	1.4	13.4	526	0.387
1	×	70	Circular*	9.7	1.1	1.4	15.3	724	0.268
1	×	95	Circular*	11.3	1.1	1.5	16.9	988	0.193
1	×	120	Circular*	12.7	1.2	1.5	18.4	1223	0.153
1	×	150	Circular*	14.1	1.4	1.6	20.3	1493	0.124
1	×	185	Circular*	15.9	1.6	1.6	22.4	1829	0.0991
1	×	240	Circular*	18.1	1.7	1.7	25.1	2385	0.0754
1	×	300	Circular*	20.3	1.8	1.8	27.7	2998	0.0601
1	×	400	Circular*	23.5	2.0	1.9	31.5	3841	0.0470
1	×	500	Circular*	26.4	2.2	2.0	35.0	4887	0.0366
1	×	630	Circular*	30.0	2.4	2.2	39.4	6224	0.0283
1	×	800	Circular*	34.0	2.6	2.3	44.1	7958	0.0221
1	×	1000	Circular*	39.0	2.8	2.4	49.7	10249	0.0176

Note *: compacted conductor

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No. of cores	x	C.S.A	Current rating-three phase AC			Voltage drop-three phase AC			Short circuit current (1s)
			Horizontal flat touching free air	Trefoil touching free air	Horizontal flat spaced*	Horizontal flat touching free air	Trefoil touching free air	Horizontal flat spaced*	
n		mm ²	A	A	A	mV/A/m	mV/A/m	mV/A/m	kA(1s)
1	x	6	—	—	—	6.800	6.800	6.800	0.86
1	x	10	—	—	—	4.000	4.000	4.000	1.43
1	x	16	—	—	—	2.500	2.500	2.500	2.29
1	x	25	141	135	182	1.600	1.600	1.650	3.58
1	x	35	176	169	226	1.150	1.150	1.200	5.01
1	x	50	216	207	275	0.870	0.870	0.890	7.15
1	x	70	279	268	353	0.620	0.610	0.650	10.01
1	x	95	342	328	430	0.460	0.450	0.490	13.59
1	x	120	400	383	500	0.380	0.370	0.420	17.16
1	x	150	464	444	577	0.320	0.310	0.370	21.45
1	x	185	533	510	661	0.280	0.260	0.330	26.46
1	x	240	634	607	781	0.240	0.220	0.290	34.32
1	x	300	736	703	902	0.210	0.195	0.270	42.90
1	x	400	868	823	1085	0.195	0.175	0.260	57.20
1	x	500	998	946	1253	0.180	0.160	0.250	71.50
1	x	630	1151	1088	1454	0.170	0.150	0.240	90.09
1	x	800	1275	1214	1581	0.165	0.145	0.240	114.40
1	x	1000	1436	1349	1775	0.165	0.140	0.240	143.00

Note Current ratings at ambient temperature 30°C

*: Flat spaced by one cable diameter

Certificate of Assessed Design

Licensee:

Suzhou Draka Cable Co., Ltd.

No. 88 Kangyuan Road, Xiangcheng Economic Development District, Suzhou, 215131, China

Factory:

No. 88 Kangyuan Road, Xiangcheng Economic Development District, Suzhou, 215131, China

Standard:

CAD049

Description:

BS 8573: 2012 with additional testing

Details:

Single-core, 6qmm to 1000sqmm, Class 2, Circular, Sheath LTS4, Insulation GP8

With additional testing to:

Voltage test - as per IEC 60502-1 Clause 15.3.2,a;
Insulation Resistance test (outer sheath to be removed) - as per IEC 60502-1 Clauses 17.2.1;
BS EN 60332-3-24; BS EN 61034-2; BS EN 60754-1; BS EN 60754-2;
BS EN IEC 60684-2 for fluorine test

Materials:

Insulation GP 8, Sheath LTS 4

Brand Name:

N/A

Origin Mark:

BASEC CAD049

Permissible Approval Marks:

BASEC



Signed for and on behalf of
BASEC Group Ltd

Kieran O'Brien

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Check BASEC website to verify validity.

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This certificate is associated with CAD049 Appendix

Expiry date:
01/06/2024