

CU/XLPE/PVC/AWA/PVC

Single-core Cable refer to BS 5467 0.6/1kV



Certificate

BASEC BRITISH APPROVALS SERVICE FOR CABLES

Application

Armoured cables for power supply and distribution for residential buildings, industrial installations and public areas where mechanical protection is required. Suitable for fixed installation both indoor and outdoor, on tray, in pipe or direct buried.

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	Inner covering	PVC	PVC according to BS7655-4.2 TYPE 9
④	Armor	AWA	Aluminum wire for single-core cable
⑤	Outer sheath	PVC	PVC according to BS7655-4.2 TYPE 9 Sheath color: Black

Cable marking

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

H PRYSMIAN(S) BASEC BS5467 ELECTRIC CABLE 600/1000V SIZE YYYY XXXXm



Core Identification

No. of cores	Detail
1 core	Brown or Blue

Applicable Standards

Design guidelines	BS 5467
Flame retardant properties	IEC60332-1

Technical Data

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

Bending Radius

Item	Single core cable
Normal	8D
Notes: D =overall diameter of cable	

Cable Type Coding

No. of cores	1
Standard cable code	6941X

CU/XLPE/PVC/AWA/PVC Single-core Cable BS5467 0.6/1kV

No. of cores	×	C.S.A	Shape of Conductor	Nominal thickness of insulation	Diameter under armour	Armor wire nominal Diameter	Nominal thickness of sheath	Approx. overall diameter	Approx. weight	DC resistance at max.20°C
n		mm^2		mm	mm	mm	mm	mm	Kg/km	Ω/km
1	×	70	circular*	1.1	13.6	1.25	1.5	18.9	884	0.268
1	×	95	circular*	1.1	15.2	1.25	1.6	20.7	1161	0.193
1	×	120	circular*	1.2	16.8	1.25	1.6	22.3	1416	0.153
1	×	150	circular*	1.4	19.1	1.6	1.7	25.5	1787	0.124
1	×	185	circular*	1.6	21.2	1.6	1.8	27.6	2148	0.0991
1	×	240	circular*	1.7	23.7	1.6	1.8	30.1	2723	0.0754
1	×	300	circular*	1.8	26.1	1.6	1.9	32.7	3366	0.0601
1	×	400	circular*	2.0	30.1	2.0	2.0	37.7	4369	0.0470
1	×	500	circular*	2.2	33.4	2.0	2.1	41.2	5466	0.0366
1	×	630	circular*	2.4	37.4	2.0	2.2	45.4	6854	0.0283

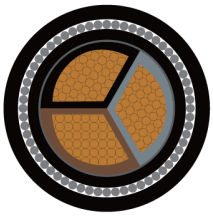
Note *: compacted conductor

CU/XLPE/PVC/AWA/PVC Single-core Cable BS5467 0.6/1kV

No. of cores	×	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 free air	Horizontal flat touching free air	Trefoil touching free air	Horizontal flat spaced* free air	
n		mm²	A	A	A	mV/A/m	mV/A/m	mV/A/m	kA(1s)
1	×	70	293	285	358	0.650	0.620	0.700	10.01
1	×	95	352	346	525	0.520	0.470	0.580	13.59
1	×	120	405	402	485	0.440	0.390	0.510	17.16
1	×	150	462	463	549	0.390	0.330	0.450	21.45
1	×	185	524	529	618	0.340	0.280	0.410	26.46
1	×	240	612	625	715	0.300	0.240	0.370	34.32
1	×	300	700	720	810	0.280	0.210	0.340	42.90
1	×	400	767	815	848	0.270	0.195	0.330	57.20
1	×	500	851	918	923	0.250	0.180	0.310	71.50
1	×	630	935	1027	992	0.240	0.170	0.290	90.09

Note Current ratings at ambient temprature 30℃

*: Flat spaced by one cable diameter



CU/XLPE/PVC/SWA/PVC

Multi-core Cable refer to BS 5467 0.6/1kV



Certificate

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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	Inner covering	PVC	PVC according to BS7655-4.2 TYPE 9 Bedding color: Black
④	Armor	SWA	Galvanized steel wire for multi-core cables
⑤	Outer sheath	PVC	PVC according to BS7655-4.2 TYPE 9 Sheath color: Black

Cable marking

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

2-5cores:H PRYSMIAN(S) BASEC BS5467 ELECTRIC CABLE 600/1000V SIZE YYYY XXXXm
Over 7 cores:PRYSMIAN(S) BASEC BS5467 ELECTRIC CABLE 600/1000V AUX SIZE YYYY XXXXm



Core Identification

No. of cores	Detail
2core	Brown-Blue
3core	Brown-Black-Grey
4core	Blue-Brown-Black-Grey
5core	Green and Yellow-Blue-Brown-Black-Grey
->5core	Black or white with numbers
Other colours available as customer requirement	

Applicable Standards

Design guidelines	BS 5467
Flame retardant properties	IEC60332-1

Technical Data

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

Bending Radius

Item	Single core cable
Normal	8D
Notes: D =overall diameter of cable	

Cable Type Coding

No. of cores	1	2	3	4	5
Standard cable code	6941X	6942X	6943X	6944X	6945X
No. of cores	**7**	**12**	**19**	**27**	**37**
Standard cable code	6947X	6940/12X	6940/19X	6940/27X	6940/37X

BASEC Approved Cables

CU/XLPE/PVC/SWA/PVC Multi-core Cable BS5467 0.6/1kV

No. of cores	×	C.S.A	Shape of Conductor	Nominal thickness of insulation	Diameter under armour	Armor wire nominal Diameter	Nominal thickness of sheath	Approx. overall diameter	Approx. weight	DC resistance at max.20℃	Current rating-single cable in free air	Voltage drop-single cable in free air	Short circuit current (1s)
n		mm^2		mm	mm	mm	mm	mm	Kg/km	Ω/km	A	mV/A/m	kA(1s)
2	×	1.5	circular	0.6	7.2	0.9	1.3	11.4	251	12.1	29	31.000	0.21
2	×	2.5	circular	0.7	8.4	0.9	1.4	12.9	331	7.41	39	19.000	0.36
2	×	4	circular	0.7	9.5	0.9	1.4	13.9	370	4.61	52	12.000	0.57
2	×	6	circular	0.7	10.6	0.9	1.4	15.0	441	3.08	66	7.900	0.86
2	×	10	circular	0.7	12.6	0.9	1.5	17.2	571	1.83	90	4.700	1.43
2	×	16	circular	0.7	14.8	1.25	1.5	20.1	862	1.15	115	2.900	2.29
2	×	25	circular	0.9	18.3	1.25	1.6	23.8	1184	0.727	152	1.900	3.58
2	×	35	circular	0.9	20.9	1.6	1.7	27.3	1650	0.524	188	1.350	5.01
2	×	50	circular*	1.0	22.3	1.6	1.9	28.9	1920	0.387	228	1.000	7.15
2	×	70	circular*	1.1	26.5	2.0	2.0	33.9	2727	0.268	291	0.690	10.01
2	×	95	circular*	1.1	29.9	2.0	2.1	37.5	3445	0.193	354	0.520	13.59
2	×	120	circular*	1.2	33.1	2.0	2.1	40.9	4063	0.153	410	0.420	17.16
3	×	1.5	circular	0.6	7.6	0.9	1.3	11.8	274	12.1	25	27.000	0.21
3	×	2.5	circular	0.7	9.0	0.9	1.4	13.4	350	7.41	33	16.000	0.36
3	×	4	circular	0.7	10.1	0.9	1.4	14.5	422	4.61	44	10.000	0.57
3	×	6	circular	0.7	11.3	0.9	1.4	15.7	510	3.08	56	6.800	0.86
3	×	10	circular	0.7	13.5	1.25	1.5	18.8	778	1.83	78	4.000	1.43
3	×	16	circular	0.7	15.8	1.25	1.6	21.3	1034	1.15	99	2.500	2.29
3	×	25	circular	0.9	19.9	1.6	1.7	26.3	1597	0.727	131	1.650	3.58
3	×	35	circular	0.9	22.4	1.6	1.8	28.8	2004	0.524	162	1.150	5.01
3	×	35	sector	0.9	19.2	1.6	1.8	25.6	1865	0.524	162	1.150	5.01
3	×	50	sector	1.0	22.2	1.6	1.8	28.6	2270	0.387	197	0.870	7.15
3	×	70	sector	1.1	25.5	1.6	1.9	32.1	2980	0.268	251	0.600	10.01
3	×	95	sector	1.1	28.9	2.0	2.1	36.8	4129	0.193	304	0.450	13.59
3	×	120	sector	1.2	32.0	2.0	2.2	40.0	5039	0.153	353	0.370	17.16
3	×	150	sector	1.4	36.2	2.5	2.3	45.4	6343	0.124	406	0.300	21.45
3	×	185	sector	1.6	40.1	2.5	2.4	49.5	7578	0.0991	463	0.260	26.46
3	×	240	sector	1.7	44.6	2.5	2.6	54.4	9424	0.0754	546	0.210	34.32
3	×	300	sector	1.8	49.5	2.5	2.7	59.5	11573	0.0601	628	0.185	42.90
3	×	400	sector	2.0	56.2	2.5	2.9	66.6	14843	0.0470	728	0.165	57.20

Note *: compacted conductor

Current ratings at ambient temprature 30℃

CU/XLPE/PVC/SWA/PVC Multi-core Cable BS5467 0.6/1kV

No. of cores	×	C.S.A	Shape of Conductor	Nominal thickness of insulation	Diameter under armour	Armor wire nominal Diameter	Nominal thickness of sheath	Approx. overall diameter	Approx. weight	DC resistance at max.20℃	Current rating-single cable in free air	Voltage drop-single cable in free air	Short circuit current (1s)
n		mm^2		mm	mm	mm	mm	mm	Kg/km	Ω/km	A	mV/A/m	kA(1s)
4	×	1.5	circular	0.6	8.4	0.9	1.3	12.6	308	12.1	25	27.000	0.21
4	×	2.5	circular	0.7	9.8	0.9	1.4	14.2	396	7.41	33	16.000	0.36
4	×	4	circular	0.7	11.1	0.9	1.4	15.5	491	4.61	44	10.000	0.57
4	×	6	circular	0.7	12.5	1.25	1.5	17.8	705	3.08	56	6.800	0.86
4	×	10	circular	0.7	14.9	1.25	1.5	20.2	951	1.83	78	4.000	1.43
4	×	16	circular	0.7	17.6	1.25	1.6	23.1	1258	1.15	99	2.500	2.29
4	×	25	circular	0.9	22.1	1.6	1.7	28.5	1983	0.727	131	1.650	3.58
4	×	35	circular	0.9	24.8	1.6	1.8	31.2	2445	0.524	162	1.150	5.01
4	×	35	sector	0.9	21.9	1.6	1.8	28.3	2290	0.524	162	1.150	5.01
4	×	50	sector	1.0	25.3	1.6	1.9	31.9	2852	0.387	197	0.870	7.15
4	×	70	sector	1.1	29.7	2.0	2.1	37.5	4066	0.268	251	0.600	10.01
4	×	95	sector	1.1	33.3	2.0	2.2	41.3	5238	0.193	304	0.450	13.59
4	×	120	sector	1.2	37.3	2.5	2.3	46.5	6821	0.153	353	0.370	17.16
4	×	150	sector	1.4	41.7	2.5	2.4	51.1	8027	0.124	406	0.300	21.45
4	×	185	sector	1.6	46.1	2.5	2.6	55.9	9687	0.0991	463	0.260	26.46
4	×	240	sector	1.7	51.9	2.5	2.7	61.9	12168	0.0754	546	0.210	34.32
4	×	300	sector	1.8	57.2	2.5	2.9	67.6	14921	0.0601	628	0.185	42.90
4	×	400	sector	2.0	65.5	3.15	3.2	77.8	19502	0.0470	728	0.165	57.20
5	×	1.5	circular	0.6	9.1	0.9	1.4	13.5	355	12.1	—	—	0.21
5	×	2.5	circular	0.7	10.8	0.9	1.4	15.2	457	7.41	—	—	0.36
5	×	4	circular	0.7	12.2	0.9	1.5	16.8	572	4.61	—	—	0.57
5	×	6	circular	0.7	13.7	1.25	1.5	19.0	804	3.08	—	—	0.86
5	×	10	circular	0.7	16.5	1.25	1.6	22.0	1102	1.83	—	—	1.43
5	×	16	circular	0.7	19.8	1.6	1.7	26.2	1671	1.15	—	—	2.29
5	×	25	circular	0.9	24.5	1.6	1.8	30.9	2355	0.727	—	—	3.58
5	×	35	circular	0.9	27.5	1.6	1.9	34.1	2940	0.524	—	—	5.01
5	×	50	circular	1.0	29.9	2.0	2.0	37.5	3828	0.387	—	—	7.15
5	×	70	circular	1.1	35.1	2.0	2.2	43.1	5126	0.268	—	—	10.01

Note *: compacted conductor
Current ratings at ambient temprature 30℃

CU/XLPE/PVC/SWA/PVC Multi-core Cable BS5467 0.6/1kV

No. of cores	×	C.S.A	Shape of Conductor	Nominal thickness of insulation	Diameter under armour	Armor wire nominal Diameter	Nominal thickness of sheath	Approx. overall diameter	Approx. weight	DC resistance at max.20℃	Current rating-single cable in free air	Voltage drop-single cable in free air	Short circuit current (1s)
n		mm^2		mm	mm	mm	mm	mm	Kg/km	Ω/km	A	mV/A/m	kA(1s)
7	×	1.5	circular	0.6	10.0	0.9	1.4	14.4	409	12.1	15.75	—	0.21
7	×	2.5	circular	0.7	11.8	0.9	1.4	16.2	531	7.41	20.79	—	0.36
7	×	4	circular	0.7	13.4	1.25	1.5	18.7	777	4.61	27.72	—	0.57
12	×	1.5	circular	0.6	13.2	1.25	1.5	18.5	679	12.1	15.37	—	0.21
12	×	2.5	circular	0.7	15.7	1.25	1.6	21.2	908	7.41	20.67	—	0.36
12	×	4	circular	0.7	18.3	1.6	1.6	24.5	1305	4.61	27.56	—	0.57
19	×	1.5	circular	0.6	15.5	1.25	1.6	21.0	885	12.1	13.05	—	0.21
19	×	2.5	circular	0.7	19.0	1.6	1.7	25.4	1367	7.41	17.55	—	0.36
19	×	4	circular	0.7	21.6	1.6	1.7	28.0	1730	4.61	23.4	—	0.57
27	×	1.5	circular	0.6	19.1	1.6	1.7	25.5	1306	12.1	11.6	—	0.21
27	×	2.5	circular	0.7	22.9	1.6	1.8	29.3	1744	7.41	15.6	—	0.36
27	×	4	circular	0.7	26.2	1.6	1.9	32.8	2257	4.61	20.8	—	0.57
37	×	1.5	circular	0.6	21.4	1.6	1.7	27.8	1576	12.1	10.44	—	0.21
37	×	2.5	circular	0.7	25.8	1.6	1.8	32.2	2142	7.41	14.04	—	0.36
37	×	4	circular	0.7	29.9	2.0	2.0	37.5	3105	4.61	18.72	—	0.57

Note Current ratings at ambient temprature 30℃

BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Certificate No:
225/001/007
Issue No: 5

Certificate of Product Approval

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:
BS 5467:2016 Incorporating Corrigendum No. 1

Description:
Armoured power cables with PVC sheathing

Details:
2-core, 1.5 sqmm - 120 sqmm are circular conductors only.

3-core to 4-core, 1.5 sqmm - 35 sqmm are circular conductors only.

3-core to 4-core, 35 sqmm - 400 sqmm are shaped conductors only.

Materials:
Insulation GP 8, Sheath Type 9

Brand Name:
N/A

Origin Mark:
PRYSMIAN (S) or DRAKA (S)

Permissable Approval Marks:

BASEC name | BASEC roundel

Signed for and on behalf of
BASEC Group Ltd

Date: 14/02/2024

Date of original issue: 31/07/2018

Check BASEC website to verify validity.

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BSF079 Issue 5 (20-03-2023)

UKAS PRODUCT CERTIFICATION 0004

Expiry date:
01/06/2027

BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Certificate No:
225/001/007
Issue No: 5

Type(s) and Range(s) of Approval

Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size - sqmm
4	6941X	Class 2	1	70	630
5	6942X	Class 2	2	1.5	120
6	6943X	Class 2	3	1.5	35
6	6943X	Class 2	3	35	400
7	6944X	Class 2	4	1.5	35
7	6944X	Class 2	4	35	400
8	6945X	Class 2	5	1.5	70
9	6947X	Class 2	7	1.5	4
9	6940/12X	Class 2	12	1.5	4
9	6940/19X	Class 2	19	1.5	4
9	6940/27X	Class 2	27	1.5	4
9	6940/37X	Class 2	37	1.5	4

Signed for and on behalf of
BASEC Group Ltd

Date: 14/02/2024

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BSF079 Issue 5 (20-03-2023)

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