

# BS 6724 1kV

LSOH Copper Conductor Armoured Cable. BS 6724. 600/1000 V



Prysmian BS 6724 is a Low Smoke, Zero Halogen (LSOH®) industrial wiring cable for interconnection of systems, control circuitry and power circuits

## KEY APPLICATIONS

Designed primarily for clipped directly to a surface, on tray, in basket or in free air. These cables can also be laid direct in ground or in ducts in free draining soil, or embedded in concrete

The design of Prysmian BS 6724 is particularly robust and is well suited to areas at risk of mechanical damage.

## FEATURES AND BENEFITS

- Low Smoke, Zero Halogen (LSOH®)
- Manufactured under ISO 9001 Quality management systems
- Single core aluminium wire armour
- Multi core steel wire armour

## ADDITIONAL TECHNICAL SUPPORT

- [FAQ's](http://uk.prysmiangroup.com/technical-area/faqs) - uk.prysmiangroup.com/technical-area/faqs
- [Technical email](mailto:tech.info@prysmiangroup.com) - tech.info@prysmiangroup.com
- [Live Chat](http://uk.prysmiangroup.com/technical-area) - uk.prysmiangroup.com/technical-area
- Technical hotline: 02380 295222

## STANDARDS



**BS 6724**

**BS EN 60332-1-2**

**BS EN 60332-3-24**

**BS EN 61034-2**

**BS EN 60754-1**

Construction Standard

Flame Propagation - Single Cable

Flame Propagation - Multiple (bunched) Cables - Category C

Smoke emission

Corrosive and acid gas

## CONSTRUCTION

Conductor material

Copper

Conductor surface

Bare

Core insulation material

XLPE

Armouring/reinforcement

Wire

Armouring

Yes

Material inner sheath

Low smoke zero halogen

Material outer sheath

Low smoke zero halogen

Cable shape

Round

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## APPLICATIONS PROPERTIES

Nominal voltage U <sub>0</sub> [V]	600
Nominal voltage U [V]	1,000
Flame retardant	In accordance with BS EN 60332-3-24
Halogen free	Yes
Low smoke	Yes
Max. conductor temperature [°C]	90
Min. Operation temperature [°C]	-25
UV resistant	Yes
Outdoor installation	Yes
Min. Installation temperature [°C]	0
Max. Installation temperature [°C]	80
Underground installation	Yes
Bending radius (rule)	8D

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## COLOURS

Insulation: Single Core: Brown or Blue;  
Two Cores: Brown, Blue;  
Three Cores: Brown, Black, Grey;  
Four Cores: Blue, Brown, Black, Grey;  
Five Cores: Blue, Brown, Black, Grey, Green/Yellow;  
7 to 37 Cores: White (with printed numbers);  
Sheath: Black

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## CURRENT RATINGS

Refer to table 4E3 and 4E4 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature

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## TECHNICAL DATA

Number of cores	Nominal cross section conductor [mm²]	Shape of conductor	Nominal diameter of armouring wire [mm]	Nominal diameter under armour [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]	Embodied Carbon [CO2e kg/km]
1	150	Round	1.6	19.6	28	1,900	0.124	13,094
1	185	Round	1.6	22	30	2,300	0.0991	15,936
1	240	Round	1.6	24	32	2,900	0.0754	20,298
1	300	Round	1.6	27	35	3,500	0.0601	24,632
1	400	Round	2	31	40	4,500	0.047	31,756
1	500	Round	2	35	44	5,700	0.0366	39,434
1	630	Round	2	38	48	7,000	0.0283	49,993
1	800	Round	2.5	44	55	9,100	0.0221	65,723
1	1,000	Round	2.5	49	60	11,500	0.0176	83,736
2	1.5	Round	0.9	6.9	10.8	250	12.1	708
2	2.5	Round	0.9	8.2	12.2	315	7.41	903
2	4	Round	0.9	9.2	13.3	375	4.61	1,162
2	6	Round	0.9	10.4	14.4	450	3.08	1,501
2	10	Round	0.9	11.9	16.2	590	1.83	2,171
2	16	Round	1.25	14	19	890	1.15	3,331
2	25	Sector-shaped	1.25	15.8	22	1,150	0.727	4,797
2	35	Sector-shaped	1.6	17.2	24	1,450	0.524	6,495
2	50	Sector-shaped	1.6	21	28	1,900	0.387	8,597
2	70	Sector-shaped	1.6	23	30	2,400	0.268	11,597
2	95	Sector-shaped	2	25	32	3,100	0.193	16,254
2	120	Sector-shaped	2	28	36	3,700	0.153	20,141
2	150	Sector-shaped	2	30	39	4,500	0.124	24,367
2	185	Sector-shaped	2.5	34	43	5,700	0.0991	30,909
2	240	Sector-shaped	2.5	39	48	7,100	0.0754	39,725
2	300	Sector-shaped	2.5	43	53	8,500	0.0601	49,124
2	400	Sector-shaped	2.5	47	58	10,400	0.047	61,513
3	1.5	Round	0.9	7.4	11.2	270	12.1	819
3	2.5	Round	0.9	8.7	12.7	345	7.41	1,121
3	4	Round	0.9	9.9	13.9	425	4.61	1,477
3	6	Round	0.9	11.1	15.1	520	3.08	1,930
3	10	Round	1.25	12.8	17.7	800	1.83	3,090
3	16	Round	1.25	15	21	1,100	1.15	4,469
3	25	Round	1.6	19.2	26	1,700	0.727	7,211
3	35	Round	1.6	22	28	2,100	0.524	9,498
3	50	Sector-shaped	1.6	24	30	2,500	0.387	12,134

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Number of cores	Nominal cross section conductor [mm²]	Shape of conductor	Nominal diameter of armouring wire [mm]	Nominal diameter under armour [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]	Embodied Carbon [CO2e kg/km]
3	70	Sector-shaped	1.6	26	33	3,100	0.268	16,617
3	95	Sector-shaped	2	29	37	4,200	0.193	23,273
3	120	Sector-shaped	2	32	40	5,100	0.153	28,759
3	150	Sector-shaped	2.5	36	45	6,400	0.124	35,834
3	185	Sector-shaped	2.5	40	49	7,700	0.0991	44,074
3	240	Sector-shaped	2.5	45	55	9,700	0.0754	57,147
3	300	Sector-shaped	2.5	49	59	11,700	0.0601	70,591
3	400	Sector-shaped	2.5	55	65	14,400	0.047	88,932
4	1.5	Round	0.9	8.1	11.9	305	12.1	961
4	2.5	Round	0.9	9.6	13.6	395	7.41	1,308
4	4	Round	0.9	10.9	14.9	495	4.61	1,785
4	6	Round	1.25	12.3	17.2	720	3.08	2,622
4	10	Round	1.25	14.1	19	940	1.83	3,891
4	16	Round	1.25	16.7	22	1,300	1.15	5,643
4	25	Round	1.6	22	28	2,100	0.727	9,163
4	35	Round	1.6	24	31	2,600	0.524	12,090
4	50	Sector-shaped	1.6	27	34	3,100	0.387	15,730
4	70	Sector-shaped	2	29	37	4,000	0.268	22,236
4	95	Sector-shaped	2	33	41	5,100	0.193	29,872
4	120	Sector-shaped	2.5	37	46	6,600	0.153	37,973
4	150	Sector-shaped	2.5	41	50	7,900	0.124	46,259
4	185	Sector-shaped	2.5	45	55	9,600	0.0991	57,300
4	240	Sector-shaped	2.5	51	61	12,100	0.0754	73,661
4	300	Sector-shaped	2.5	56	66	14,700	0.0601	91,477
4	400	Sector-shaped	3.15	63	75	19,100	0.047	118,394
5	1.5	Round	0.9	10.1	14.8	415	12.1	1,272
5	2.5	Round	0.9	11.5	16.1	500	7.41	1,658
5	4	Round	0.9	13	17.8	630	4.61	2,260
5	6	Round	1.25	14.8	21	900	3.08	3,367
5	10	Round	1.25	17.6	24	1,250	1.83	5,131
5	16	Round	1.6	19.9	27	1,750	1.15	7,505
5	25	Round	1.6	25	32	2,500	0.727	11,134
5	35	Round	1.6	27	34	3,000	0.524	14,573
7	1.5	Round	0.9	11	15.9	495	12.1	1,590
7	2.5	Round	0.9	12.9	17.6	620	7.41	2,148

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7	4	Round	1.25	13.7	18.9	830	4.61	3,080
12	1.5	Round	1.25	14.1	21	790	12.1	2,665
12	2.5	Round	1.25	16.5	23	990	7.41	3,596
19	1.5	Round	1.25	16.3	22	960	12.1	3,626
19	2.5	Round	1.6	19.4	26	1,450	7.41	5,407
19	4	Round	1.6	22	29	1,800	4.61	7,492
27	1.5	Round	1.6	19.7	27	1,450	12.1	5,244
27	2.5	Round	1.6	24	30	1,850	7.41	7,284
37	1.5	Round	1.6	22	29	1,650	12.1	6,375
37	2.5	Round	1.6	27	33	2,300	7.41	9,261

\*The embodied carbon figure is taken from a single product in the range, for more information on how we calculate our embodied carbon figure visit here: <https://uk.prysmiangroup.com/embodied-carbon>