Prysmian

A Brand of Prysmian Group

BS 5467 1kV

PVC Copper Conductor Armoured Cable. BS 5467. 600/1000 V

Prysmian BS 5467 is a low voltage armoured cable for industrial wiring and mains distribution

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 5467 is particularly robust and is well suited to areas at risk of mechanical damage.

FEATURES AND BENEFITS

- Manufactured under ISO 9001 Quality management systems
- Single core aluminium wire armour
- Multi core steel wire armour

ADDITIONAL TECHNICAL SUPPORT

- FAQ's- uk.prysmiangroup.com/technical-area/faqs
- Technical email - tech.info@prysmiangroup.com
- Live Chat - uk.prysmiangroup.com/technical-area
- Technical hotline: 02380 295222

STANDARDS

BS 5467	Construction Standard
BS EN 60332-1-2	Flame Propagation - Single Cable

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	XLPE
Armouring/reinforcement	Wire
Armouring	Yes
Material inner sheath	Polyvinyl chloride (PVC)
Material outer sheath	Polyvinyl chloride (PVC)
Cable shape	Round

APPLICATIONS PROPERTIES

Nominal voltage U0 [V]	600
Nominal voltage U [V]	1,000
Flame retardant	In accordance with BS EN 60332-1-2
Max. conductor temperature [°C]	90
Min. Operation temperature [°C]	-15
UV resistant	Yes
Outdoor installation	Yes
Min. Installation temperature [°C]	0
Max. Installation temperature [°C]	80
Underground installation	Yes
Bending radius (rule)	8D

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

CURRENT RATINGS

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

Note: Where 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.

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]
2	1.5	Round	0.9	8.7	11.3	260	12.1	781
2	2.5	Round	0.9	9.9	12.7	330	7.41	1,000
2	4	Round	0.9	11	13.8	390	4.61	1,278
2	6	Round	0.9	12.1	14.9	470	3.08	1,635
2	10	Round	0.9	13.7	16.7	610	1.83	2,578
2	16	Round	1.25	16.5	19.5	920	1.15	3,710
2	25	Sector-shaped	1.25	18.2	22	1,100	0.727	4,956
2	95	Sector-shaped	2	28	32	3,100	0.193	16,440
2	150	Sector-shaped	2	34	38	4,400	0.124	24,540
2	240	Sector-shaped	2.5	43	48	7,100	0.0754	40,163
3	1.5	Round	0.9	9.1	11.7	285	12.1	911
3	2.5	Round	0.9	10.4	13.2	360	7.41	1,198
3	4	Round	0.9	11.6	14.4	440	4.61	1,581
3	6	Round	0.9	12.8	15.6	540	3.08	2,077
3	10	Round	1.25	15.2	18.2	820	1.83	3,536
3	16	Round	1.25	17.4	21	1,100	1.15	4,701
3	25	Round	1.6	23	26	1,700	0.727	7,437
3	35	Round	1.6	25	29	2,100	0.524	9,785
3	50	Sector-shaped	1.6	27	30	2,500	0.387	12,422
3	95	Sector-shaped	2	33	37	4,200	0.193	23,430
3	120	Sector-shaped	2	36	40	5,100	0.153	29,075
3	150	Sector-shaped	2.5	41	45	6,400	0.124	36,222
4	1.5	Round	0.9	9.8	12.4	315	12.1	1,058
4	2.5	Round	0.9	11.3	13.9	405	7.41	1,413
4	4	Round	0.9	12.6	15.4	510	4.61	1,923
4	6	Round	1.25	14.7	17.5	730	3.08	2,784
4	10	Round	1.25	16.5	19.5	960	1.83	4,363
4	16	Round	1.25	19.1	23	1,300	1.15	6,087
4	25	Round	1.6	25	28	2,100	0.727	9,431
4	35	Round	1.6	27	31	2,600	0.524	12,405
4	50	Sector-shaped	1.6	30	34	3,100	0.387	16,055
4	70	Sector-shaped	2	33	37	4,000	0.268	22,551
4	95	Sector-shaped	2	36	41	5,100	0.193	30,228
4	120	Sector-shaped	2.5	41	46	6,600	0.153	38,406
4	150	Sector-shaped	2.5	45	50	7,900	0.124	46,737

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]
4	185	Sector-shaped	2.5	50	55	9,600	0.0991	57,844
4	240	Sector-shaped	2.5	55	61	12,200	0.0754	74,362
4	300	Sector-shaped	2.5	61	66	14,800	0.0601	92,401
4	400	Sector-shaped	3.15	69	75	19,200	0.047	119,394
5	1.5	Round	0.9	11.8	14.6	410	12.1	1,363
5	2.5	Round	0.9	13.3	16.1	500	7.41	1,770
5	4	Round	0.9	14.8	17.8	630	4.61	2,392
5	6	Round	1.25	17.2	21	900	3.08	3,527
5	10	Round	1.25	20	24	1,250	1.83	5,339
5	16	Round	1.6	23	27	1,700	1.15	7,750
7	1.5	Round	0.9	12.8	15.4	475	12.1	1,675
7	2.5	Round	0.9	14.6	17.2	610	7.41	2,260
12	1.5	Round	1.25	16.5	19.5	760	12.1	2,773
19	1.5	Round	1.25	18.7	22	960	12.1	3,799

*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