

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](https://uk.prysmian.com/technical-area/faqs) - uk.prysmian.com/technical-area/faqs
- [Technical email](mailto:tech.info@prysmian.com) - tech.info@prysmian.com
- [Live Chat](https://uk.prysmian.com/technical-area) - uk.prysmian.com/technical-area
- Technical hotline: 02380 295222

STANDARDS



BS 5467
BS EN 60332-1-2

Construction Standard
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 U ₀ [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 [mm ²] | 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 [CO ₂ e kg/km] |
|-----------------|--|--------------------|---|------------------------------------|-----------------------------|----------------------|--|---|
| 1 | 150 | Round | 1.6 | 23 | 27 | 1,850 | 0.124 | 6,930 |
| 1 | 185 | Round | 1.6 | 25 | 29 | 2,300 | 0.0991 | 7,531 |
| 1 | 240 | Round | 1.6 | 27 | 31 | 2,900 | 0.0754 | 9,741 |
| 1 | 300 | Round | 1.6 | 30 | 34 | 3,500 | 0.0601 | 11,428 |
| 1 | 400 | Round | 2 | 35 | 39 | 4,500 | 0.047 | 14,022 |
| 1 | 500 | Round | 2 | 38 | 43 | 5,600 | 0.0366 | 17,918 |
| 1 | 630 | Round | 2 | 42 | 46 | 7,000 | 0.0283 | 21,940 |
| 1 | 800 | Round | 2.5 | 49 | 54 | 9,000 | 0.0221 | 29,255 |
| 1 | 1,000 | Round | 2.5 | 54 | 59 | 11,400 | 0.0176 | 83,936 |
| 2 | 1.5 | Round | 0.9 | 8.7 | 11.3 | 260 | 12.1 | 670 |
| 2 | 2.5 | Round | 0.9 | 9.9 | 12.7 | 330 | 7.41 | 805 |
| 2 | 4 | Round | 0.9 | 11 | 13.8 | 390 | 4.61 | 956 |
| 2 | 6 | Round | 0.9 | 12.1 | 14.9 | 470 | 3.08 | 1,146 |
| 2 | 10 | Round | 0.9 | 13.7 | 16.7 | 610 | 1.83 | 1,921 |
| 2 | 16 | Round | 1.25 | 16.5 | 19.5 | 920 | 1.15 | 2,193 |
| 2 | 25 | Sector-shaped | 1.25 | 18.2 | 22 | 1,100 | 0.727 | 2,800 |
| 2 | 35 | Sector-shaped | 1.6 | 21 | 24 | 1,500 | 0.524 | 3,624 |
| 2 | 50 | Sector-shaped | 1.6 | 24 | 27 | 1,850 | 0.387 | 8,846 |
| 2 | 70 | Sector-shaped | 1.6 | 26 | 30 | 2,400 | 0.268 | 5,801 |
| 2 | 95 | Sector-shaped | 2 | 28 | 32 | 3,100 | 0.193 | 7,832 |
| 2 | 120 | Sector-shaped | 2 | 31 | 36 | 3,800 | 0.153 | 9,582 |
| 2 | 150 | Sector-shaped | 2 | 34 | 38 | 4,400 | 0.124 | 11,083 |
| 2 | 185 | Sector-shaped | 2.5 | 38 | 43 | 5,800 | 0.0991 | 14,249 |
| 2 | 240 | Sector-shaped | 2.5 | 43 | 48 | 7,100 | 0.0754 | 17,576 |
| 2 | 300 | Sector-shaped | 2.5 | 47 | 53 | 8,600 | 0.0601 | 21,354 |

TECHNICAL DATA

| Number of cores | Nominal cross section conductor [mm ²] | 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 | 400 | Sector-shaped | 2.5 | 52 | 58 | 10,500 | 0.047 | 26,269 |
| 3 | 1.5 | Round | 0.9 | 9.1 | 11.7 | 285 | 12.1 | 743 |
| 3 | 2.5 | Round | 0.9 | 10.4 | 13.2 | 360 | 7.41 | 904 |
| 3 | 4 | Round | 0.9 | 11.6 | 14.4 | 440 | 4.61 | 1,096 |
| 3 | 6 | Round | 0.9 | 12.8 | 15.6 | 540 | 3.08 | 1,339 |
| 3 | 10 | Round | 1.25 | 15.2 | 18.2 | 820 | 1.83 | 2,033 |
| 3 | 16 | Round | 1.25 | 17.4 | 21 | 1,100 | 1.15 | 2,659 |
| 3 | 25 | Round | 1.6 | 23 | 26 | 1,700 | 0.727 | 4,291 |
| 3 | 35 | Round | 1.6 | 25 | 29 | 2,100 | 0.524 | 5,325 |
| 3 | 50 | Sector-shaped | 1.6 | 27 | 30 | 2,500 | 0.387 | 6,147 |
| 3 | 70 | Sector-shaped | 1.6 | 29 | 33 | 3,100 | 0.268 | 7,790 |
| 3 | 95 | Sector-shaped | 2 | 33 | 37 | 4,200 | 0.193 | 10,553 |
| 3 | 120 | Sector-shaped | 2 | 36 | 40 | 5,100 | 0.153 | 12,816 |
| 3 | 150 | Sector-shaped | 2.5 | 41 | 45 | 6,400 | 0.124 | 16,045 |
| 3 | 185 | Sector-shaped | 2.5 | 44 | 49 | 7,700 | 0.0991 | 19,164 |
| 3 | 240 | Sector-shaped | 2.5 | 49 | 54 | 9,700 | 0.0754 | 24,149 |
| 3 | 300 | Sector-shaped | 2.5 | 54 | 59 | 11,700 | 0.0601 | 29,176 |
| 3 | 400 | Sector-shaped | 2.5 | 60 | 65 | 14,500 | 0.047 | 36,349 |
| 4 | 1.5 | Round | 0.9 | 9.8 | 12.4 | 315 | 12.1 | 835 |
| 4 | 2.5 | Round | 0.9 | 11.3 | 13.9 | 405 | 7.41 | 1,023 |
| 4 | 4 | Round | 0.9 | 12.6 | 15.4 | 510 | 4.61 | 1,275 |
| 4 | 6 | Round | 1.25 | 14.7 | 17.5 | 730 | 3.08 | 1,800 |
| 4 | 10 | Round | 1.25 | 16.5 | 19.5 | 960 | 1.83 | 2,431 |
| 4 | 16 | Round | 1.25 | 19.1 | 23 | 1,300 | 1.15 | 3,173 |
| 4 | 25 | Round | 1.6 | 25 | 28 | 2,100 | 0.727 | 5,214 |

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TECHNICAL DATA

| Number of cores | Nominal cross section conductor [mm ²] | 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 [CO ₂ e kg/km] |
|-----------------|--|--------------------|---|------------------------------------|-----------------------------|----------------------|--|---|
| 4 | 35 | Round | 1.6 | 27 | 31 | 2,600 | 0.524 | 6,435 |
| 4 | 50 | Sector-shaped | 1.6 | 30 | 34 | 3,100 | 0.387 | 7,622 |
| 4 | 70 | Sector-shaped | 2 | 33 | 37 | 4,000 | 0.268 | 10,212 |
| 4 | 95 | Sector-shaped | 2 | 36 | 41 | 5,100 | 0.193 | 13,030 |
| 4 | 120 | Sector-shaped | 2.5 | 41 | 46 | 6,600 | 0.153 | 16,700 |
| 4 | 150 | Sector-shaped | 2.5 | 45 | 50 | 7,900 | 0.124 | 19,842 |
| 4 | 185 | Sector-shaped | 2.5 | 50 | 55 | 9,600 | 0.0991 | 24,103 |
| 4 | 240 | Sector-shaped | 2.5 | 55 | 61 | 12,200 | 0.0754 | 30,405 |
| 4 | 300 | Sector-shaped | 2.5 | 61 | 66 | 14,800 | 0.0601 | 37,413 |
| 4 | 400 | Sector-shaped | 3.15 | 69 | 75 | 19,200 | 0.047 | 48,186 |
| 5 | 1.5 | Round | 0.9 | 11.8 | 14.6 | 410 | 12.1 | 1,260 |
| 5 | 2.5 | Round | 0.9 | 13.3 | 16.1 | 500 | 7.41 | 1,462 |
| 5 | 4 | Round | 0.9 | 14.8 | 17.8 | 630 | 4.61 | 1,775 |
| 5 | 6 | Round | 1.25 | 17.2 | 21 | 900 | 3.08 | 2,456 |
| 5 | 10 | Round | 1.25 | 20 | 24 | 1,250 | 1.83 | 3,470 |
| 5 | 16 | Round | 1.6 | 23 | 27 | 1,700 | 1.15 | 4,655 |
| 5 | 25 | Round | 1.6 | 28 | 31 | 2,500 | 0.727 | 6,151 |
| 5 | 35 | Round | 1.6 | 30 | 34 | 2,900 | 0.524 | 7,414 |
| 7 | 1.5 | Round | 0.9 | 12.8 | 15.4 | 475 | 12.1 | 1,535 |
| 7 | 2.5 | Round | 0.9 | 14.6 | 17.2 | 610 | 7.41 | 1,829 |
| 12 | 1.5 | Round | 1.25 | 16.5 | 19.5 | 760 | 12.1 | 2,545 |
| 12 | 2.5 | Round | 1.25 | 18.9 | 23 | 980 | 7.41 | 3,026 |
| 19 | 1.5 | Round | 1.25 | 18.7 | 22 | 960 | 12.1 | 3,366 |
| 19 | 2.5 | Round | 1.6 | 23 | 26 | 1,450 | 7.41 | 4,387 |
| 27 | 1.5 | Round | 1.6 | 23 | 27 | 1,400 | 12.1 | 4,773 |

TECHNICAL DATA

| Number of cores | Nominal cross section conductor [mm ²] | 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 [CO ₂ e kg/km] |
|-----------------|--|--------------------|---|------------------------------------|-----------------------------|----------------------|--|---|
| 27 | 2.5 | Round | 1.6 | 27 | 31 | 1,850 | 7.41 | 5,824 |
| 37 | 1.5 | Round | 1.6 | 26 | 29 | 1,700 | 12.1 | 5,930 |
| 37 | 2.5 | Round | 1.6 | 30 | 34 | 2,300 | 7.41 | 7,272 |

*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>