

BS 7889

XLPE Insulated, PVC Sheathed Single Core Cable. BS 7889. 600/1000 V



Prysmian BS 7889 is an unarmoured industrial single core wiring cable with cross linked polyethylene insulation and PVC sheath.

KEY APPLICATIONS

Suitable for installation in areas with reduced risk of mechanical damage; on tray, in free air or clipped direct.
Suitable also for conduit and wiring installations when mechanical protection is required.

FEATURES AND BENEFITS

- Manufactured under ISO 9001 Quality management systems

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 7889
BS EN 60332-1-2

Construction Standard
Flame Propagation - Single Cable

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	XLPE
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
Bending radius (rule)	6D

COLOURS

Insulation: Brown or Blue

Sheath: Black

CURRENT RATINGS

Refer to table 4E1 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.

TECHNICAL DATA

Nominal cross section conductor [mm ²]	Conductor category	Nominal thickness insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]	Embodied Carbon [CO ₂ e kg/km]
10	Class 2 = stranded	0.7	8.4	150	1.83	838
16	Class 2 = stranded	0.7	9	200	1.15	1,232
25	Class 2 = stranded	0.9	10.6	295	0.727	1,868
35	Class 2 = stranded	0.9	11.6	390	0.524	2,526
50	Class 2 = stranded	1	13.2	520	0.387	3,506
50	Class 2 = stranded	1	13.2	520	0.387	3,499
70	Class 2 = stranded	1.1	14.9	720	0.268	4,925
95	Class 2 = stranded	1.1	16.7	1,000	0.193	6,838
120	Class 2 = stranded	1.2	18.9	1,250	0.153	8,812
150	Class 2 = stranded	1.4	21	1,550	0.124	10,662
185	Class 2 = stranded	1.6	23	1,900	0.0991	13,281
240	Class 2 = stranded	1.7	26	2,500	0.0754	17,373
300	Class 2 = stranded	1.8	29	3,100	0.0601	21,451
400	Class 2 = stranded	2	33	3,100	0.047	27,293
500	Class 2 = stranded	2.2	37	5,000	0.0366	34,823
630	Class 2 = stranded	2.4	41	6,400	0.0283	44,902
800	Class 2 = stranded	2.6	46	8,300	0.0221	58,376
1,000	Class 2 = stranded	2.8	51	10,300	0.0176	75,684

*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>