

# BS 7889

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



Draka 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

### **STANDARDS**



BS 7889 BS EN 60332-1-2

### CONSTRUCTION

Conductor material Conductor surface Core insulation material Material outer sheath Cable shape Construction Standard Flame Propagation - Single Cable

Copper Bare XLPE Polyvinyl chloride (PVC) 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]	O
Max. Installation temperature [°C]	80
Bending radius (rule)	6D

## COLOURS

Insulation: Brown or Blue Sheath:Black

### **CURRENT RATINGS**

Refer to table 4EI 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

Nominal cross section conductor [mm <sup>2</sup> ]	Conductor category	Nominal thickness insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
1.5	Class 2 = stranded	0.7	5.9	50	12.1
2.5	Class 2 = stranded	0.7	6.4	65	7.41
4	Class 2 = stranded	0.7	6.8	80	4.61
6	Class 2 = stranded	0.7	7.5	105	3.08
10	Class 2 = stranded	0.7	8.4	150	1.83
16	Class 2 = stranded	0.7	9	200	1.15
25	Class 2 = stranded	0.9	10.6	295	0.727
35	Class 2 = stranded	0.9	11.6	390	0.524
50	Class 2 = stranded	1	13.2	520	0.387
70	Class 2 = stranded	1.1	14.9	720	0.268
95	Class 2 = stranded	1.1	16.7	1,000	0.193
120	Class 2 = stranded	1.2	18.9	1,250	0.153
150	Class 2 = stranded	1.4	21	1,550	0.124
185	Class 2 = stranded	1.6	23	1,900	0.0991
240	Class 2 = stranded	1.7	26	2,500	0.0754
300	Class 2 = stranded	1.8	29	3,100	0.0601
400	Class 2 = stranded	2	33	3,100	0.047
500	Class 2 = stranded	2.2	37	5,000	0.0366
630	Class 2 = stranded	2.4	41	6,400	0.0283
800	Class 2 = stranded	2.6	46	8,300	0.0221
1,000	Class 2 = stranded	2.8	51	10,300	0.0176