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	Construction Standard
BS EN 60332-1-2	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 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
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

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TECHNICAL DATA

Nominal cross section conductor [mm²]	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