RAILSURE

OHLS® Single Core Conduit Wire. BS EN 50525-3-41. 450/750 V

Draka Saffire® Railsure is a single core, low voltage OHLS® wiring cable designed for installation within conduit or trunking wiring systems in fixed or protected environments

KEY APPLICATIONS

The cable is ideal as part of the wiring and control for non-emergency systems in public buildings, station concourses above and below ground.

Draka Railsure has been designed and developed specifically to meet the requirements of LU S1085, the London Underground client standard with regard to flaming debris.

FEATURES AND BENEFITS

- Zero Halogen, Low Smoke (OHLS®)
- Designed to meet the requirements of London Underground LUL - S1085 - Fire Safety Performance of Materials - Stations and Tunnel Infrastructure
- Manufactured under ISO 9001 Quality management systems

STANDARDS

BS EN 60332-1-2	Flame Propagation - Single Cable
BS EN 60332-3-24	Flame Propagation - Multiple (bunched) Cables - Category C
BS EN 60332-3-25	Flame Propagation - Multiple (bunched) Cables - Category D
BS EN 61034-2	Smoke emission
BS EN 60754-1	Corrosive and acid gas

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Low smoke zero halogen

APPLICATIONS PROPERTIES

Nominal voltage U0 [V]	450
Nominal voltage U [V]	750
Flame retardant	In accordance with BS EN 60332-3-24
Halogen free	Yes
Low smoke	Yes
Max. conductor temperature [°C]	90
Min. Operation temperature [°C]	-25
Min. Installation temperature [°C]	0
Max. Installation temperature [°C]	80
Bending radius (rule)	6D

COLOURS

A range of insulation colours are available, including green/yellow

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	3	25	12.1
2.5	Class 2 = stranded	0.8	3.7	35	7.41
4	Class 2 = stranded	0.8	4.1	50	4.61
6	Class 2 = stranded	0.8	4.8	75	3.08
10	Class 2 = stranded	1	6.1	120	1.83
16	Class 2 = stranded	1	6.7	165	1.15
25	Class 2 = stranded	1.2	8.3	260	0.727
35	Class 2 = stranded	1.2	9.3	345	0.524
50	Class 2 = stranded	1.4	11.2	475	0.387
70	Class 2 = stranded	1.4	12.7	670	0.268
95	Class 2 = stranded	1.6	14.7	925	0.193
120	Class 2 = stranded	1.6	16.1	1,150	0.153
150	Class 2 = stranded	1.8	18	1,425	0.124
185	Class 2 = stranded	2	20.2	1,785	0.0991
240	Class 2 = stranded	2.2	22.9	2,335	0.0754
300	Class 2 = stranded	2.4	25.6	2,945	0.0601
400	Class 2 = stranded	2.6	30.1	3,910	0.047
500	Class 2 = stranded	2.8	34.9	5,010	0.0366
630	Class 2 = stranded	2.8	39.4	6,315	0.0283