

# **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

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 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



# TECHNICAL DATA

| Nominal cross<br>section conductor<br>[mm²] | Conductor category | Nominal thickness insulation [mm] | Nominal outer<br>diameter [mm] | Cable weight<br>[kg/km] | Conductor<br>resistance at 20°<br>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                                       |