



OHLS SAFFIRE® RAILSURE

London Underground Approved Single Core Zero Halogen, Low Smoke Cable (OHLS®)

LU approved cable (LU Approval ref 1674). Draka Railsure is a low voltage single core OHLS® wiring cable designed for installation within conduit or trunking wiring systems in fixed or protected environments. 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 1-085, the London Underground client standard with regard to flaming debris and it has certification across the full size range.



Construction

Manufacturing standard:	BS EN 50525-3-41 plus LU 1-085
Conductors:	Stranded plain annealed copper wire (Class 2) to BS EN 60228
Insulation:	An extruded layer of cross-linked Zero Halogen, Low Smoke (OHLS) compound

Physical characteristics

Voltage rating (U0/U):	450/750V Note: When installed in an earthed metal enclosure, cables are suitable for voltages up to 1000V a.c. or up to 750V to earth d.c.
Max. Conductor temp:	90°C 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 (see regulation 512-1-5 of BS7671, the 17th Edition of IEE Wiring Regulations)
Min. bending radius	6 x overall diameter of cable
Current rating:	Refer to tables 4E1A & 4E1B in BS7671

Performance characteristics

General performance:	Complies with LU specification 1-085
Smoke emission:	LU 1-085 BS EN 61034-2
Acid gas emission:	LU 1-085 BS EN 50267-2-1
Flame propagation:	LU 1-085 BS EN 60332-1-2 BS EN 60332-3-*

*In accordance with LU 1-085. A range of insulation colours are available including green/yellow



Draka

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Single core RSURE

Nominal area of conductor	Insulation thickness	Approx. overall diameter	Approx. weight of cable	Maximum conductor resistance @ 20°C
mm ²	mm	mm	kg/km	Ω/km
1.5	0.7	3.0	25	12.10
2.5	0.8	3.7	35	7.41
4	0.8	4.1	50	4.61
6	0.8	4.8	75	3.08
10	1.0	6.1	120	1.83
16	1.0	6.7	165	1.15
25	1.2	8.3	260	0.727
35	1.2	9.3	345	0.524
50	1.4	11.1	475	0.387
70	1.4	12.7	670	0.268
95	1.6	14.7	925	0.193
120	1.6	16.1	1150	0.153
150	1.8	18.0	1425	0.124
185	2.0	20.2	1785	0.0991
240	2.2	22.9	2335	0.0754
300	2.4	25.6	2945	0.0601
400	2.6	29.1	3910	0.047
500	2.8	32.9	5010	0.0366
630	2.8	35.9	6315	0.0283



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