Draka

OHLS SAFFIRE® 6491B

Saffire 6491B - Single Core Zero Halogen, Low Smoke (OHLS®)

Draka Saffire 6491B is a single core OHLS® wiring cable designed for installation within conduit, trunking or inside fixed protected environments, such as appliances, switchgear and control gear or without mechanical protection for Green/Yellow earth cable. The cable is ideal as part of the wiring for non-emergency systems in public buildings where reduction in the volume of smoke and acid gas emissions is beneficial.

Construction

Manufacturing standard:	BS EN 50525-3-41
Harmonized code:	H07Z - R
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 (Uo/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

Smoke emission:	BS EN 61034-2
Acid gas emision:	BS EN 50267-2-1
Flame propagation:	BS EN 60332-1-2

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A range of insulation colours are available including green/yellow

BRITISH APPROVALS SERVICE FOR CABLES BASEC

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Nominal area of conductor mm²	Insulation thickness mm	Approx. overall diameter mm	Approx. weight of cable kg/km	Maximum conductor resistance @ 20°C Ω/km
1.5	0.7	3.1	25	12.10
2.5	0.8	3.7	35	7.41
4	0.8	4.2	50	4.61
6	0.8	4.7	70	3.08
10	1.0	6.3	120	1.83
16	1.0	6.9	170	1.15
25	1.2	8.5	260	0.727
35	1.2	9.5	350	0.524
50	1.4	11.2	475	0.387
70	1.4	12.8	670	0.268
95	1.6	15.2	940	0.193
120	1.6	16.5	1160	0.153
150	1.8	18.4	1435	0.124
185	2.0	20.6	1800	0.0991
240	2.2	23.3	2350	0.0754
300	2.4	26.0	2960	0.0601
400	2.6	29.9	3930	0.0470
500	2.8	33.7	5030	0.0366
630	2.8	36.7	6160	0.0283