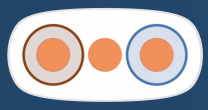

Single, Twin, Three Core Flat 624_B

A 300/500 Volt domestic and light industrial fixed wiring cable, can be clipped to a surface, embedded in plaster or laid on tray where there is little risk of mechanical impact. Low Smoke Zero Halogen (LSOH) cables are used in installations where smoke and acid gas emission in the event of fi re would pose a hazard to the public.

CONSTRUCTION

Single, two or three core flat cables with an additional un-insulated Circuit Protection Conductor (CPC). Solid or stranded plain copper conductor, Cross Linked Polyethylene (XLPE) insulation, cores laid parallel with CPC and LSOH sheath overall white.

TECHNICAL DATA

BS 7211

Nominal Voltage	300/500V
Test Voltage	2000V
Operating Temperature	-15°C to +70°C
Bending Radius	4 x cable O/D single core 6 x cable O/D for flat
Flame Propagation	BS EN 60332-1-2
Smoke Density	BS EN 61034-2
Halogen Emission	BS EN 60754-2
Current Rating Table	4D5A

NOTES: Minimum installation temperature 0°C

300 - 500 Volts | -15°C | +70°C | 4 x SC 6 x F | 4D5A

When a conductor operates at a temperature above 70°C it should be ascertained that the equipment is suitable.

LS0H 6241_B DIMENSIONS

Cores x mm²	Nom Dim mm	Weight kg / km
1.0	5.2 x 6.4	40
1.5	5.8 x 7.0	48

6241_B core identifi cation chart -
Single core: Brown or Blue

LS0H 6242_B DIMENSIONS

Cores x mm²	Nom Dim mm	Weight kg / km
1.0	5.0 x 9.1	67
1.5	5.3 x 9.7	80
2.5	6.0 x 11.2	113
4.0	6.7 x 12.6	155
6.0	7.5 x 14.6	219
10.0	8.8 x 17.6	333
16.0	10.1 x 20.5	495

6242_B core identifi cation chart -
Single core: Brown or Blue

LS0H 6243_B DIMENSIONS

Cores x mm²	Nom Dim mm	Weight kg / km
1.0	4.7 x 11.0	91
1.5	5.4 x 12.5	115
2.5	6.2 x 14.5	170

6243_B core identifi cation chart -
3 core: Brown, Black and Grey

SINGLE, TWIN, THREE CORE FLAT LS0H 624_B

Table 4D5A
70°C thermoplastic insulated & sheathed flat cable with protective conductor (copper conductors)

CURRENT-CARRYING CAPACITY (amperes) and
VOLTAGE DROP per ampere per metre):

Ambient temperature: 30°C
Conductor operating temperature: 70°C

Conductor cross sectional area	Reference Method 100# (above a plasterboard ceiling covered by thermal insulation not exceeding 100mm in thickness)	Reference Method 101# (above a plasterboard ceiling covered by thermal insulation not exceeding 100mm in thickness)	Reference Method 102# (in a stud wall with thermal insulation with cable touching the inner wall surface)	Reference Method 103# (in a stud wall with thermal insulation with cable not touching the inner wall surface)	Reference Method C* (clipped direct)	Reference Method A* (enclosed in conduit in an insulated wall)	Voltage Drop (per ampere per metre)
1	2	3	4	5	6	7	8
(mmÇ)	(A)	(A)	(A)	(A)	(A)	(A)	(mV/A/m)
1	13	10.5	13	8	16	11.5	44
1.5	16	13	16	10	20	14.5	29
2.5	21	17	21	13.5	27	20	18
4	27	22	27	17.5	37	26	11
6	34	27	35	23.5	47	32	7.3
10	45	36	47	32	64	44	4.4
16	57	46	63	42.5	85	57	2.8

A* For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable
C* For full installation method refer to Table 4A2 Installation Method 20 but for flat twin and earth cable
100# For full installation method refer to Table 4A2 Installation Method 100
101# For full installation method refer to Table 4A2 Installation Method 101
102# For full installation method refer to Table 4A2 Installation Method 102
103# For full installation method refer to Table 4A2 Installation Method 103

Wherever practicable, a cable is to be fixed in a position such that it will not be covered with thermal insulation. Regulation 523.7, BS5803-5: Appendix C: Avoidance of overheating of electric cables Building Regulations Approved document B and Thermal insulation: avoiding risks, BR 262, BRE, 2001 refer.