

Fume-Guard Cable Range

6242B / 6243B Twin & Earth Sheathed Cables

(Complies with BS 7211:2012)

Class 1 Solid Copper / Class 2 Stranded Copper/ Low Smoke Zero Halogen Insulation / Low Smoke Zero Halogen Sheath



Application

Designed for fixed wiring installations in dry or damp premises clipped to surface, on trays or in free air where there is no risk of mechanical damage. It is suitable for laying in conduit or trunking where mechanical protection is required.

This is a zero halogen, low smoke and flame-retardant alternative to standard PVC cable. It is suited to non-emergency systems in public buildings where reduction in the volume of smoke and acid gas emissions is essential.



Cable Description

Class 1 Solid / Class 2 stranded copper conductor,
Class 1 Solid / Class 2 stranded un-insulated circuit protection conductor (CPC),
Low smoke zero halogen cross linked polyethylene (XLPE) insulation,
Low smoke zero halogen (LSZH) outer sheath.

Can be supplied in flat design or easy strip design.

N.B. In the event of fire, the gases evolved from this cable are free from Halogen and the design is optimised to limit the quantity and cleanliness of the smoke evolved during this period. Although the acronym HFFR is applied to the sheath material, the terms LSOH, HFFR and HFFR are also applicable.

Insulation Colours

2 Core - Blue, Brown,

3 Core - Brown, Black, Grey

Third party Accreditation



Cables are tested and approved by
BASEC (British Approvals Service for Cables)

Physical characteristics

No of Cores	Conductor Class	Nominal Cross-Sectional Area (mm ²)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Nominal Overall Dimensions (mm)	Maximum Conductor Resistance at 20°C (ohms/km)	Approx. Weight of Cable (kg/km)
2	1	1.00	0.70	0.90	4.10 x 8.65	18.10	70
2	1	1.50	0.80	1.00	4.55 x 8.80	12.10	80
2	1	2.50	0.80	1.00	5.40 x 10.50	7.41	110
2	2	4.00	1.00	1.10	6.10 x 12.00	4.61	150
2	2	6.00	1.00	1.10	6.90 x 13.80	3.08	210
2	2	10.0	1.00	1.20	8.40 x 18.50	1.83	220
2	2	16.0	1.00	1.30	9.70 x 20.60	1.15	475
3	1	1.00	0.70	0.90	4.60 x 9.70	18.10	90
3	1	1.50	0.80	1.00	4.75 x 11.45	12.10	110
3	1	2.50	0.80	1.00	5.46 x 13.40	7.41	150

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Disclaimer: Great effort is made to ensure the accuracy of the information presented, but errors may occur.

Specification and availability should be confirmed with a call to our sales representatives. ©British Cables company Limited

Mechanical characteristics

Characteristic	Unit	Value
Operating Temperature Range	°C	90
Minimum Bend Radius	Diameter	4D

Electrical characteristics at 20°C

Characteristic	Unit	Value
Voltage Rating Uo/U	V	300/500
Current Rating Table	-	4D5 (BS7671)

Fire Performance

Test	Test Method	Value	Comment
Fume Emission	XR-F	No halogen, nitrogen, phosphorous or Sulphur containing com-pounds (trace elements ≤ 0.5% w/w)	Compliant
Single Cable Vertical Burn Test	BS EN 60332-1: 2004	Onset of char (from top support): > 50mm Extent of char (from top support): < 540mm	Compliant
Bunched Cable Vertical Burn Test	BS EN 50399	PHR / THR / FIGRA / SPR / TSP / d	Compliant
Acid Gas Emission	BS EN 50267-2-1: 1999	Less than 5mg/g	Compliant
Smoke Emission	BS EN 61034-2: 2005	Minimum light transmittance >60%	Compliant
CPR Euro Classification	BS EN 50575-201 4 AI-2016	Dca	