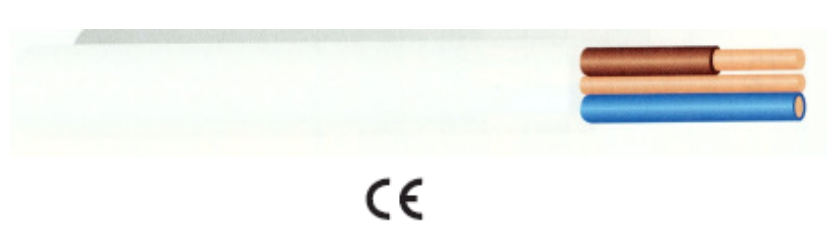
	DATA SHEET	ST-101-001-E
	6241BH - Single Core 6242BH - Twin Flat 6243BH - 3-Core LOW VOLTAGE	Rev. 0 17/11/2011

	Construction: BS7211:1998 Table 7 Flame propagation: EN 60332-1-2 Low Voltage directive: 2006/95/EC RoHS directive: 2011/65/EC
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DESCRIPTION

Conductor: class 1, solid plain copper (cross-section $\leq 2,5 \text{ mm}^2$)
 class 2, stranded plain copper wire (cross-section $\geq 4 \text{ mm}^2$)
Insulation: XLPE (cross-linked polyethylene), circuit protective conductor uninsulated
Outer sheath: thermoplastic LS0H polyolefin, flat shape
 Colour: white
LS0H = Low Smoke Zero Halogen

Colours for core identification:

- single core: brown or blue.
- twin flat: brown, blue.
- 3-core: brown, black, (centre core), grey.

FUNCTIONAL CHARACTERISTICS

Rated voltage U₀/U: 300/500 V
 Max. operating temperature: 90 °C
 Min. operating temperature (without mechanical shocks): -10 °C
 Max. short circuit temperature: 250 °C

INSTALLATION CONDITIONS

Minimum installation temperature: 5 °C
 Recommended minimum curvature radius: 4 x overall cable diameter for the single core type, 6 x small dimension for flat type
 Recommended maximum tensile stress: 50 N/mm² of the cross-section of the copper

USE AND INSTALLATION METHOD

Particularly recommended for fire risk areas with the presence of large number of people, due to its excellent fire retardant qualities and reduced fume, toxic and corrosive gas emissions. For fixed applications inside dry or humid environments, or outdoors on buildings and metallic structures. Good resistance to humidity, chemical agents and solar radiation.

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DATA SHEET
ST-101-001-E

6241BH - Single Core
6242BH - Twin Flat
6243BH - 3-Core
 LOW VOLTAGE

Rev. 0
 17/11/2011

Formation	Approx. conductor diameter	Average insulation thickness	Average sheath thickness	Max. external dimensions	Approx. cable weight	Max. electrical resistance at 20°C
n° x mm ²	mm	mm	mm	Mm	kg/km	Ω/km
1 x 1 + 1	1,1/1,1	0,7	0,9	5,0 x 6,3	42	18,1/18,1
1 x 1,5 + 1	1,4/1,1	0,7	0,9	5,3 x 6,6	57	12,1/18,1
2 x 1 + 1	1,1/1,1	0,7	0,9	5,0 x 9,1	68	18,1/18,1
2 x 1,5 + 1	1,4/1,1	0,7	0,9	5,3 x 9,7	79	12,1/18,1
2 x 2,5 + 1,5	1,8/1,4	0,7	1,0	6,0 x 11,2	111	7,41/12,1
2 x 4 + 1,5	2,4/1,4	0,7	1,0	6,7 x 12,6	152	4,61/12,1
2 x 6 + 2,5	3,1/1,8	0,7	1,1	7,5 x 14,6	216	3,08/7,41
2 x 10 + 4	4,0/2,4	0,7	1,2	8,8 x 17,6	331	1,83/4,61
2 x 16 + 6	4,9/3,1	0,7	1,3	10,1 x 20,5	493	1,15/3,08
3 x 1 + 1	1,1/1,1	0,7	0,9	5,1 x 12,1	90	18,1/18,1
3 x 1,5 + 1	1,4/1,1	0,7	0,9	5,3 x 12,9	107	12,1/18,1
3 x 2,5 + 1	1,8/1,1	0,7	1,0	6,0 x 14,6	144	7,41/18,1
3 x 4 + 1,5	2,4/1,4	0,7	1,0	6,7 x 16,9	208	4,61/12,1
3 x 6 + 2,5	3,1/1,8	0,7	1,1	7,5 x 19,5	304	3,08/7,41

REVISION LEVEL

Rev.	Date	Reason	Application	Units	Red.	Ver.	App.
0	17/11/2011	First emission	Generic application	UP02	R&I	QAC	R&IC

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