

CABLES

Vendor	Description
RIPCORD	
B0023	Cable, ripcord, 0.2mm white Cable, ripcord, 0.2mm white - 100m roll
B0022	Cable, ripcord, 0.2mm brown Cable, ripcord, 0.2mm brown - 100m roll
B0126	Cable, ripcord, 0.4mm white Cable, ripcord, 0.4mm white - 100m roll
B0125	Cable, ripcord, 0.4mm brown Cable, ripcord, 0.4mm brown - 100m roll
SOLID CORE	
B1232	Cable, comms solid 4 core white Cable, comms solid 4 core white - 100m roll
B0124	Cable, comms solid 4 core brown Cable, comms solid 4 core brown - 100m roll
B0115	Cable, comms solid 6 core white Cable, comms solid 6 core white - 100m roll
B0123	Cable, comms solid 6 core brown Cable, comms solid 6 core brown - 100m roll
B0116	Cable, comms solid 8 core white Cable, comms solid 8 core white - 100m roll
B0122	Cable, comms solid 8 core brown Cable, comms solid 8 core brown - 100m roll
B0107	Cable, comms solid 10 core white Cable, comms solid 10 core white - 100m roll
B0121	Cable, comms solid 10 core brown Cable, comms solid 10 core brown - 100m roll
B0108	Cable, comms solid 12 core white Cable, comms solid 12 core white - 100m roll
B0120	Cable, comms solid 12 core brown Cable, comms solid 12 core brown - 100m roll
B0127	Cable, poly 12 core Cable, poly 12 core - 100m roll
B0118	Cable, comms solid 20 core white Cable, comms solid 20 core white - 100m roll
B0129	Cable, comms solid 20 core brown Cable, comms solid 20 core brown - 100m roll
B0128	Cable, comms solid 30 core white Cable, comms solid 30 core white - 100m roll
B0119	Cable, comms solid 30 core brown Cable, comms solid 30 core brown - 100m roll
FLEX/STRANDED	
B0112	Cable, comms flex 4 core Cable, comms flex 4 core - 100m roll
B0113	Cable, comms flex 6 core Cable, comms flex 6 core - 100m roll

CUT CABLE QUALITY, AND YOU CAN CUT THE SYSTEM

There is a cable standard for a very good reason. BS4737 Part 3 is designed to approve a cable with the minimum of resistance, and therefore ensure the effectiveness of the system and reduce the incidence of false alarms due to signal drop.

Security cable might not appear to be the most sophisticated of components, yet its characteristics are absolutely vital to the efficiency of the installation, and if inferior product is used, it can easily be an unwelcome cause of false alarms.

BS4737 Part 3: Section 3.30: specification for components is *the* specification for PVC insulated cables for interconnecting wiring, and specifies clearly on the conductor resistance and construction along with PVC shrinkage, type and thickness, together with a minimum of resistance. Should any of these parameters be compromised, this can jeopardise the system integrity. Result – false alarms and expensive call-backs.

The recent dramatic rises in the price of copper, the main conductor used, coinciding with the increasing system demands of PD6662, has put the quality of security cable firmly back on the agenda within the industry.

There may inevitably be some cables offered which claim to meet BS but simply do not. And there is also security cable on the market which may not claim compliance with BS4737, but offers some small commercial advantage. The question is, is it worth the risk?

Lower costs for non BS cables are often reflected by the reduction in the amount of copper used in the cable, and the absence of tinning, which is a process to assist good termination. It can also be reflected in the conductor used, which may be a low grade copper, or an alternative composite conductor material with significantly different characteristics.

The UK market has for many years taken the specification and availability of security cable manufactured to BS4737 as the standard for all quality installations, but don't take that for granted, not in today's competitive marketplace, warns Yvonne.

Don't let the cable be the weakest link in your installation – always use cable manufactured to the British Standard.

CABLE AT A GLANCE

	Standard cable, Screened cable, low smoke & fume	Twin power & data	Twisted pair
Core Type:	Annealed tin copper	Annealed tin copper	Copper
Strand Diameter	0.2mm	0.2mm	0.2mm
Strands per core	7	16 Power 7 Data	24
Nom Conductor Area	0.22mm ²	0.50mm ² - power 0.22mm ² - data	0.75mm ²
Core Gauge	24 AWG	22 AWG	20 AWG
Insulation Thickness	0.3mm	0.4mm	0.3mm
Max. Operating Voltage	50v RMS	50v RMS	50v RMS
Current Rating Per Core @ 70°C	1 AMP	3 AMP	4.5 AMP
Max Operating Temp	70°C	70°C	70°C
Non Core Resistance @ 20°C	92 OHMS/KM	40 OHMS/KM	25 OHMS/KM
BS Standards	BS4737, section 3.30	BS4737, section 3.30	BS4737, section 3.30

CABLE COMPOSITION



STANDARD CABLE.

This cable is based on cores made from 7 strands of 0.2mm annealed tinned copper wire & is sheathed in Type 1 PVC. These cables are available in white or brown.

LOW SMOKE & FUME CABLE. The standard security cable can also be specified with a special low emission PVC outer sheathing. Using this sheathing, the compound oxygen index level is greater than 32%. This means it will require more than 32% of the volume of air to be oxygen for it to catch fire. 'Normal' air contains around 19% oxygen. The acid emission level is less than 10%. A normal PVC sheathing compound would give a figure of 20%.

14 STRAND CABLE. This is similar to the standard cable except that each core is made up of 14 strands of 0.2mm cable. This gives a Nominal conductor area of 0.44mm². (This is often used in areas where 0.5mm² wire is required).



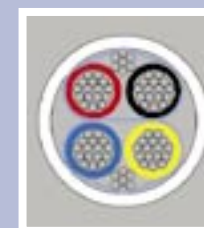
SCREENED CABLE.

This uses the same cores as standard cable. In addition, an aluminium foil is wrapped around the cores. Screened cable offers significant advantages in

situations where RF interference or spurious signals may lead to false alarms or erosion of data. An earth drain wire is present along the entire length of the cable providing shield continuity and a convenient earthing point at the control panel.

TWIN POWER & DATA. Two different conductor types are used. A power pair (red/blue) is provided in 16 strands x 0.2mm (0.5mm²) for use where higher than normal current carrying capacity or lower voltage drop is required.

The data cores consist of the standard 7 strands x 0.2mm tinned copper wire. The data cores are aluminium foil wrap screened (with an earth drain wire) to give added protection against induced transients that may be carried via the power cores or outside influences.



TWISTED PAIR CABLE.

Each core consists of 24 strands of 0.2mm (0.75mm²) copper wire. Each pair of cores is twisted and aluminium foil wrap screened. A bare 7 strands x 0.2mm earth drain wire is

included. Twisted pair cable is particularly useful for bus systems or for installations requiring longer lengths of cabling such as access control and CCTV.

Vendor	Description
FLEX/STRANDED <i>(continued)</i>	
B0114	Cable, comms flex 8 core Cable, comms flex 8 core - 100m roll
B0110	Cable, comms flex 10 core Cable, comms flex 10 core - 100m roll
B0111	Cable, comms flex 12 core Cable, comms flex 12 core - 100m roll
CABTYRE	
B0106	0.5 mm 3 Core Cabtyre 0.5 mm 3 Core Cabtyre - 100m roll
B0138	0.5 mm 4 Core Cabtyre 0.5 mm 4 Core Cabtyre - 100m roll
B0139	1.5 mm 4 Core Cabtyre 1.5 mm 4 Core Cabtyre - 100m roll
CABLE - TWISTED PAIR	
B0117	Cable, twisted 0.75mm, 2 core Cable, twisted 0.75mm, 2 core - 100m roll

ACCESSORIES

KEY SWITCHES	
B0017	Key switch in box, Momentary Key switch in box, Momentary.(KB05)
B0054	Key switch Barrel On/Off Key switch Barrel On/Off, with 3 keys
B0020	Key switch in box, Slim line 2 LED Key switch in box, Slim line 2 LED
B0059	Key switch in slim line, SPST Key switch in slim line, SPST.(KB03)

PLUGS / SOCKETS	
B0030	Venus Plug Venus Plug with Gas Arrestor for connection to Telkom lines

EMERGENCY SWITCHES	
B0071	Emergency Button Emergency Button (N/O,N/C)
B0021	Emergency Button Emergency Button (N/O)
B0064	Latching Emergency Button Latching Emergency Button
B0609	Latching Emergency Hold up foot rail Latching Emergency Hold up foot rail



EMERGENCY BUTTON