



SECURITY AND BURGLAR ALARM CABLE

BS alarm cable references

12 orderable sizes

STANDARD BS alarm cable references	VOLTAGE CLASS Low-voltage security and alarm circuits	CONDUCTOR Solid or stranded bare copper conductor
INSULATION / JACKET PVC or LSZH jacket		

Construction

- 1 ■ **Conductor (per core)** – 18 AWG / 0.82 mm² · 1 × Ø1.02 mm · IEC 60228 c1.1
- 2 ■ **Core insulation** – PVC insulation
- 3 ■ **Filler** – PP filler
- 4 ■ **Sheath** – PVC or LSZH jacket

Size selection – all available cross-sections

Cable reference	Application	Cable design	Conductor size	Conductor construction	Max DC resistance at 20 °C	Electrical reference	Screen / protection	Jacket	OD guide
Security Alarm Cable 2C 22 AWG	Burglar alarm and security sensor circuit	2 core	22 AWG / 0.33 mm ²	7/30 AWG	53.5 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	4.2 mm
Security Alarm Cable 2C 20 AWG	Burglar alarm and security sensor circuit	2 core	20 AWG / 0.52 mm ²	10/30 AWG	33.6 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	4.5 mm
Security Alarm Cable 2C 18 AWG	Burglar alarm and security sensor circuit	2 core	18 AWG / 0.82 mm ²	16/30 AWG	21.0 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	4.9 mm
Security Alarm Cable 4C 22 AWG	Burglar alarm and security sensor circuit	4 core	22 AWG / 0.33 mm ²	7/30 AWG	53.5 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	5.4 mm
Security Alarm Cable 4C 20 AWG	Burglar alarm and security sensor circuit	4 core	20 AWG / 0.52 mm ²	10/30 AWG	33.6 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	5.9 mm

Cable reference	Application	Cable design	Conductor size	Conductor construction	Max DC resistance at 20 °C	Electrical reference	Screen / protection	Jacket	OD guide
Security Alarm Cable 4C 18 AWG	Burglar alarm and security sensor circuit	4 core	18 AWG / 0.82 mm ²	16/30 AWG	21.0 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	6.4 mm
Security Alarm Cable 6C 22 AWG	Burglar alarm and security sensor circuit	6 core	22 AWG / 0.33 mm ²	7/30 AWG	53.5 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	6.3 mm
Security Alarm Cable 6C 20 AWG	Burglar alarm and security sensor circuit	6 core	20 AWG / 0.52 mm ²	10/30 AWG	33.6 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	7.0 mm
Security Alarm Cable 6C 18 AWG	Burglar alarm and security sensor circuit	6 core	18 AWG / 0.82 mm ²	16/30 AWG	21.0 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	7.6 mm
Security Alarm Cable 8C 22 AWG	Burglar alarm and security sensor circuit	8 core	22 AWG / 0.33 mm ²	7/30 AWG	53.5 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	7.1 mm
Security Alarm Cable 8C 20 AWG	Burglar alarm and security sensor circuit	8 core	20 AWG / 0.52 mm ²	10/30 AWG	33.6 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	7.8 mm
Security Alarm Cable 8C 18 AWG	Burglar alarm and security sensor circuit	8 core	18 AWG / 0.82 mm ²	16/30 AWG	21.0 Ω/km	95 pF/m nominal conductor-to-conductor	No screen	PVC or LSZH jacket	8.6 mm