



COMPOSITE ACCESS CONTROL CABLE

UL 2464 / building low-voltage references

8 orderable sizes

STANDARD UL 2464 / building low-voltage references	VOLTAGE CLASS 300 V access-control and building systems	CONDUCTOR Stranded tinned copper conductor
INSULATION / JACKET PVC, PE outdoor or LSZH jacket		

Construction

- 1 **Conductor (per core)** – 22 AWG multicore · 16 × Ø0.16 mm · IEC 60228 cl.5
- 2 **Core insulation** – PVC or PE insulation
- 3 **Filler** – PP filler
- 4 **Shield** – Foil shield (B)
- 5 **Sheath** – PVC, PE outdoor 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
Access Control Composite 4C + 2C + 2C	Card reader, lock power and door contact	22 AWG data + 18 AWG lock + 22 AWG contact	22 AWG data + 18 AWG lock + 22 AWG contact	Stranded tinned copper conductors	22 AWG 53.5 Ω/km / 18 AWG 21.0 Ω/km	300 V access-control and low-voltage building systems	Foil screened data pair plus overall jacket	PVC or LSZH jacket	6.8 mm guide
Access Control Composite OSDP 1P + 4C	OSDP reader and control power	22 AWG twisted pair + 18 AWG power cores	22 AWG twisted pair + 18 AWG power cores	Stranded tinned copper conductors	22 AWG 53.5 Ω/km / 18 AWG 21.0 Ω/km	300 V access-control and low-voltage building systems	Foil screened data pair	PVC or LSZH jacket	7.3 mm guide
Access Control Composite 6C + 2C	Reader, REX and lock release	22 AWG signal + 18 AWG lock pair	22 AWG signal + 18 AWG lock pair	Stranded tinned copper conductors	22 AWG 53.5 Ω/km / 18 AWG 21.0 Ω/km	300 V access-control and low-voltage building systems	Overall foil screen	PVC or LSZH jacket	7.7 mm guide
Security Composite 4C + Coax	Camera power, control and video route	22 AWG control + coaxial element	22 AWG control + coaxial element	Stranded tinned copper conductors	Matched to composite elements	300 V access-control and low-voltage building systems	Composite jacket	PVC or LSZH jacket	8.2 mm guide

Cable reference	Application	Cable design	Conductor size	Conductor construction	Max DC resistance at 20 °C	Electrical reference	Screen / protection	Jacket	OD guide
Door Entry Composite 8C	Door station, call button and release	22 AWG multicore	22 AWG multicore	Stranded tinned copper conductors	22 AWG 53.5 Ω/km / 18 AWG 21.0 Ω/km	300 V access-control and low-voltage building systems	Overall foil screen	PVC or LSZH jacket	8.6 mm guide
Reader Composite Outdoor 4C + 2C	Outdoor card reader and door contact	22 AWG signal + 18 AWG power pair	22 AWG signal + 18 AWG power pair	Stranded tinned copper conductors	22 AWG 53.5 Ω/km / 18 AWG 21.0 Ω/km	300 V access-control and low-voltage building systems	PE outdoor jacket	PE outdoor jacket	9.1 mm guide
Access Control Riser 12C	Multi-door riser control	22 AWG multicore	22 AWG multicore	Stranded tinned copper conductors	22 AWG 53.5 Ω/km / 18 AWG 21.0 Ω/km	300 V access-control and low-voltage building systems	Overall foil screen	PVC or LSZH jacket	9.5 mm guide
Access Control Plenum 6C + 2C	Low-smoke building control route	22 AWG signal + 18 AWG lock pair	22 AWG signal + 18 AWG lock pair	Stranded tinned copper conductors	22 AWG 53.5 Ω/km / 18 AWG 21.0 Ω/km	300 V access-control and low-voltage building systems	Low-smoke jacket	LSZH building jacket	9.9 mm guide