



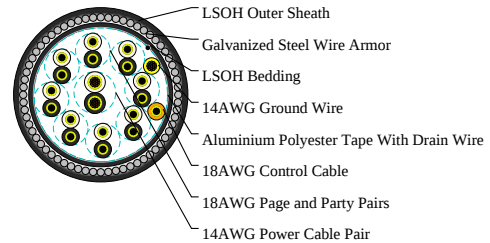
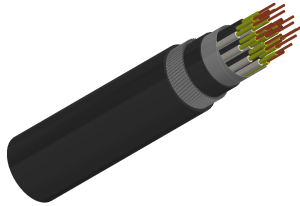
Caledonian

Composite Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

Fire Resistant, SWA 20 Conductors UV Resistant, Flame Retardant LSZH Composite Cable



FIRE PERFORMANCE

Fire Resistance	IEC 60331
Flame Propagation	IEC60332-1 & IEC60332-3C
Low Smoke Capacity	IEC61034-1/2
Halogen Free	IEC60754-1/2

CABLE CONSTRUCTION

1 Pair Power cable and 1 ground wire

Conductor: 14AWG (19/0.361mm) annealed copper

Fire Barrier: Mica/Glass Tape

Insulation: XLPE material. Thickness 0.7mm

Sheath Color: Black and white

Ground wire color: Yellow-Green

8 Party Line and Spare Pair, 1 control wire

Conductor: 18AWG (19/0.254mm) annealed copper

Fire Barrier: Mica/Glass Tape

Insulation: XLPE material. Thickness 0.7mm

Insulation Color: Black & White with Pair Number

Control wire color: Orange

Element Assembly

Core make-up: The power pair, ground wire, Party Line and Spare Pair, and control wire are twisted together.

Fillers will be used if necessary

Binder tape: The polyester tape is wrapped over the cable cores

Bedding: 1.0mm Flame Retardant LSZH compound

Armour: 1.6mm Steel wire armor

Sheath: UV Resistant, Flame Retardant LSZH is applied over armour.. Thickness 1.7mm, Overall diameter 34.8±2.5mm

Sheath Color: Black

Cable Weight :1722 kg/km



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PHYSICAL AND THERMAL PROPERTIES

Electrical and Physical Properties @20°C:

Power Pair, Ground Wire

Max. Conductor Resistance: 8.9Ohm/km at 20°C

Insulation Resistance: $\geq 1000 \text{ MOhm}\cdot\text{km}$

Party Line and Spare Pair, Control Wire

Max. Conductor Resistance: 17.9Ohm/km at 20°C

Insulation Resistance: $\geq 1000 \text{ MOhm}\cdot\text{km}$

Operating Temperature: -20°C/+90°C

Voltage Rating: 600/1000V