



# Caledonian

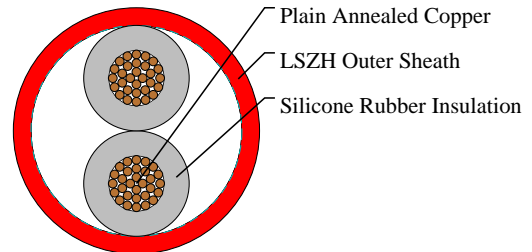
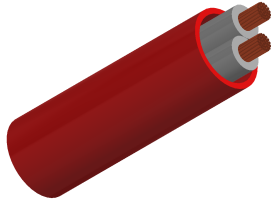
Airport Cables

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## FAS (Fire Alarm System) Fire Communication Cable

FFX200 05SZ1-F 1P1.5 (CU/SR/LSZH 1×2×1.5mmsq 300/500V class 5)



## APPLICATIONS

The cables are single pair stranded flexible cables sheathed with thermoplastic LSZH compound. The cables have the ability to restrict the propagation of the flame in the event of a fire. This is especially important to slow down the spreading of the fire as the cables may pass from one area to another within a building. Applications can be found in control and power circuits, power stations, underground tunnels, lifts, escalators, and high-rise buildings.

## FIRE PERFORMANCE

Basic design	BS 7629-1
Halogen Free	IEC 60754-1
No corrosive gas emission	IEC 60754-2
Minimum Smoke Emission	IEC 61034/1/2
Reduced Fire Propagation	IEC 60332-3C / NF C 32-070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / BS 5839-1 Clause 26 2d / NF C 32070-2.3(CR1)

## VOLTAGE RATING

300/500V

## CABLE CONSTRUCTION

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 5.

Insulation: Fire resistant silicone rubber compound type EI2 as per BS 7655-1.1

Twisting: Cores are twisted into pairs with varying lay length to minimize crosstalk.

Outer Sheath: Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1.

## PHYSICAL AND THERMAL PROPERTIES

Temperature range during operation (fixed state): -30°C – +90°C

Temperature range during installation (mobile state): -20°C – +50°C

Minimum bending radius: 8 × Overall Diameter



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## Electrical Properties

Dielectric test:2000 V r.m.s. x 5' (core/core)

Insulation resistance:300 MΩ x km (at 20°C)

Short circuit temperature:350°C

## DIMENSION AND PARAMETERS

No. of Pairs	Nominal Cross-sectional Area	No./Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nom. Overall Diameter	Approx. Weight
	mm <sup>2</sup>	no./mm	mm	mm	mm	kg/km
1	1.5	30/0.25	0.7	0.5	7.5	60



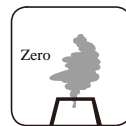
BS 7629-1



Fire Resistant  
IEC 60331-21



Flame Retardant  
NF C32-070-2.(IC2)  
IEC60332-1-2/EN50265-2-1



Zero  
Halogen Free  
IEC 60754-1



Low Corrosivity  
IEC60754-2/EN50267-2-2/3  
NF C32-074/NF C20-453



Low Smoke Emission  
IEC 61034-2 / EN 50268-2  
NF C32-073/NF C 20-902



Reduced Fire Propagation  
NF C32-070-2.2.(C1)  
IEC60332-3-24/EN50266-2-4