



# Caledonian

Airport Flame Retardant And Fire Resistant Cables

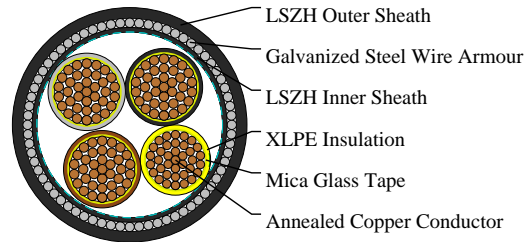
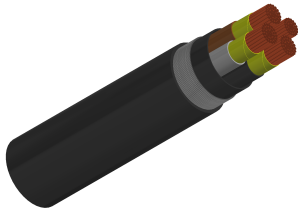
www.caledonian-cables.com

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## 600/1000V Mica/XLPE Insulated, LSZH Sheathed, Armoured Power Cables(3+1 Cores)

FFX400 1mRZ1MZ1-R 3C185/120(CU/MGT+XLPE/LSZH/SWA/LSZH 600/1000V Class 2)

Feeder Cables for Security SDB, TDB Terminal Security Equipment



### APPLICATIONS

This cable is designed for areas where the integrity of the electrical properties circuit is critical in maintaining power supply. Applications can be found in emergency lightings, control and power circuits, power stations, fire alarm systems, underground tunnels, communications systems, sewage treatment plants, lifts, escalators, and high-rise buildings.

### STANDARDS

Basic design to BS 7846

### FIRE PERFORMANCE

|   |  |
|---|--|
| Circuit Integrity   | IEC 60331-21; BS 6387 CWZ; DIN VDE 0472-814(FE180); CEI 20-36/2-1; SS229-1; NBN C 30-004 (cat. F3); NF C32-070-2.3(CR1)  |
| Flame Retardance (Single vertical wire test)                              | EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*           |
| Reduced Fire Propagation (Vertically-mounted bundled wires & cables test) | EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); CEI 20-22/3-4; EN 50266-2-4*; DIN VDE 0482-266-2-4 |
| Halogen Free  | IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1*  |
| No Corrosive Gas Emission   | IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2*  |
| Minimum Smoke Emission  | IEC 61034-1&2; EN 61034 -1&2; DIN VDE 0482-1034-1&2; CEI 20-37/3-1&2; EN 50268-1&2*; BS 7622-1&2*  |
| No Toxic Gases  | NES 02-713; NF C 20-454  |
| System Circuit Integrity  | DIN 4102-12, E30 depending on lay system   |





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|     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 185 | 515 | 441 | 539 | 463 | 455 | 380 | 540 | 460 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|

### Voltage Drop (Per Amp Per Meter)

| Nominal Cross sectional Area | 2C cable, d.c. | 2C cable, 1-phase a.c. | 3C or 4C cable, 3-phase a.c. | 2 cables, 1-phase a.c. (In ducts) | 2 cables, 1-phase a.c. (In ground) | 3 or 4 cables, 3-phase a.c. touching (In ducts) | 3 or 4 cables, 3-phase a.c. touching (In ground) |
|------------------------------|----------------|------------------------|------------------------------|-----------------------------------|------------------------------------|---|--|
| mm <sup>2</sup>              | mV/A/m         | mV/A/m                 | mV/A/m                       | mV/A/m                            | mV/A/m                             | mV/A/m  | mV/A/m   |
| 185                          | 0.25           | r:0.26x:0.145z:0.29    | r:0.22x:0.125z:0.26          | 0.29                              | 0.29                               | 0.25  | 0.25   |



Rated voltage



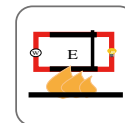
BS 7846



Circuit Integrity  
IEC 60331-21/BS6387/BS 8491



Flame Retardant  
NF C32-070-2.1(C2)  
IEC60332-1-3/EN50266-2-1



Functional integrity  
DIN 4102-12



Low Corrosivity  
IEC60754-2/EN50267-2-2.3  
NF C32-074/NF C20-453



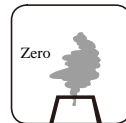
Low Smoke Emission  
IEC 61034-2 / EN 50268-2  
NF C32-073/NF C 20-902



Low Toxicity  
NES 02-713/NF C 20-454



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



Zero Halogen  
IEC 60754-1/EN 50267-2-1  
NF C20-454