



Caledonian

AIRPORT ULV Cables





AIRPORT ULV CABLES

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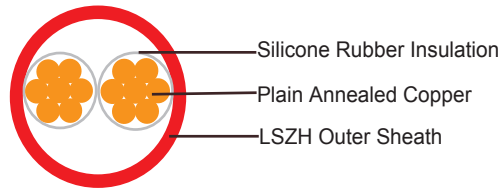


FAS (Fire Alarm System)

Detector Cable , FFX200 05SZ1-R/F 1P1.5

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

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.

STANDARDS

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 2 or 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.

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

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

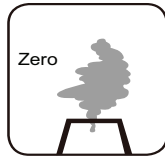
CONSTRUCTION PARAMETERS

FFX200 05SZ1-R 1P1.5
FFX200 05SZ1-F 1P1.5

No. of pair x	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
1	1.5	7/0.53	0.7	0.5	7.4	60
1	1.5	30/0.25	0.7	0.5	7.5	60



Standard



Halogen Free
IEC60754-1



No Corrosive
Gas Emission
IEC60754-2



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

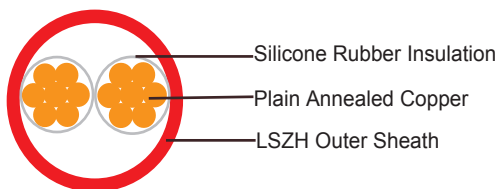


FAS (Fire Alarm System)

Fire Communication Cable, FFX200 05SZ1-R/F 1P1.5

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

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.

STANDARDS

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 2 or 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.

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

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

CONSTRUCTION PARAMETERS

FFX200 05SZ1-R 1P1.5

FFX200 05SZ1-F 1P1.5

No. of pair x	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
1	1.5	7/0.53	0.7	0.5	7.4	60
1	1.5	30/0.25	0.7	0.5	7.5	60



Standard



Halogen Free
IEC60754-1/
EN50267-2-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

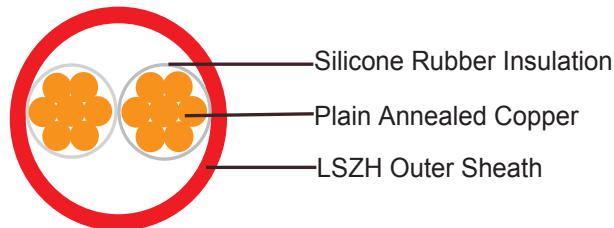


FAS (Fire Alarm System)

Sounder Cable FFX200 05SZ1-R/F 2G1.5

FFX200 05SZ1-R 2G1.5 (CU/SR/LSZH 2×1.5mmsq 300/500V class 2)

FFX200 05SZ1-F 2G1.5 (CU/SR/LSZH 2×1.5mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (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 2 or class 5.

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

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



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

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

CONSTRUCTION PARAMETERS

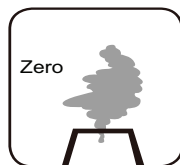
FFX200 05SZ1-R 2G1.5

FFX200 05SZ1-F 2G1.5

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
2	1.5	7/0.53	0.7	0.5	7.4	70
2	1.5	30/0.25	0.7	0.5	7.5	70



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

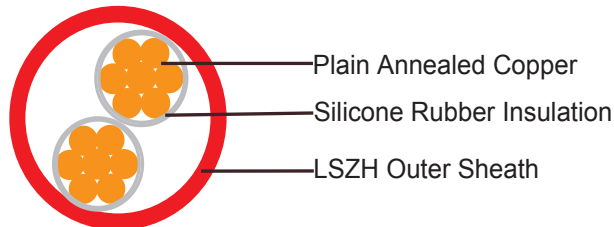


FAS (Fire Alarm System)

Control Cable FFX200 05SZ1-R/F 2G2.5

FFX200 05SZ1-R 2G2.5 (CU/SR/LSZH 2×2.5mmsq 300/500V class 2)

FFX200 05SZ1-F 2G2.5 (CU/SR/LSZH 2×2.5mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore stranded flexible cables sheathed with thermoplastic LSZH compound. The cables are designed specially for fire alarm systems where the integrity of the electrical circuit is critical in maintaining power supply. Applications can be found in emergency lightings, control and power circuits, power stations, fire alarm systems, underground.

STANDARDS

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 32070-2.2 (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 2 or class 5.

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

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



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

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

CONSTRUCTION PARAMETERS

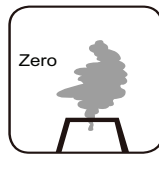
FFX200 05SZ1-R 2G2.5

FFX200 05SZ1-F 2G2.5

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
2	2.5	7/0.67	0.8	1.0	9.0	105
2	2.5	50/0.25	0.8	1.0	9.0	105



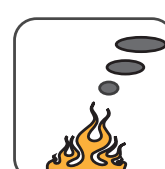
Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



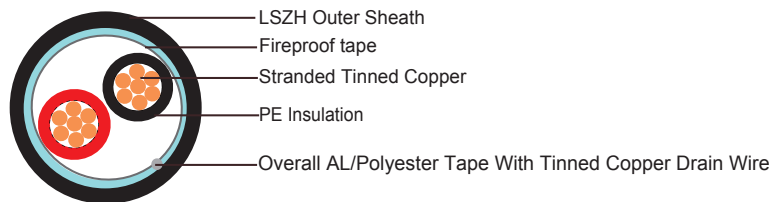
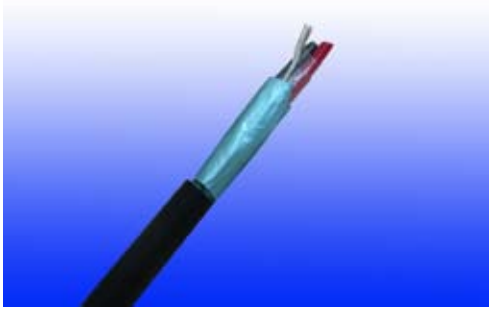
Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



FAS (Fire Alarm System)

RS485 Data Cable RE-02Y(St)H 1P18A

RE-02Y(St)H 1P18A (CU/PE/OSCR/LSZH 1×2×18AWG)



APPLICATIONS

The cables are designed for RS485 data connections. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design	EIA/TIA 485
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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331-23 / NF C 32-070-2.3(CR1)

CABLE CONSTRUCTION

Conductors: Tinned annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Solid or foam PE compound

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk.

Overall Screen: Aluminum/ polyester tape with tinned copper drain wire.

Fire Barrier: Fireproof Tape.

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

ELECTRICAL PROPERTIES

Dielectric test	1000 V r.m.s. for 5' (core-core)
	1000 V r.m.s. for 5' (core-screen)
Impedance	120Ω
Capacitance	45 nF/km conductor to conductor
	90 nF/km conductor to shield

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

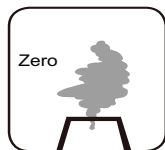
CONSTRUCTION PARAMETERS

RE-02Y(ST)H 1P18A

No. of pair ×	Wire Gauge	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	AWG	No/mm	mm	mm	mm	kg/km
1	18	7/0.404	1.15	1.2	10.5	100
1	18	16/0.254	1.15	1.2	10.5	100



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



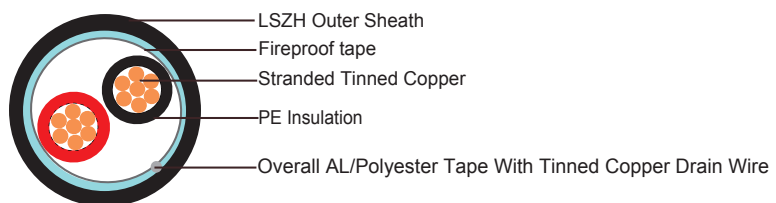
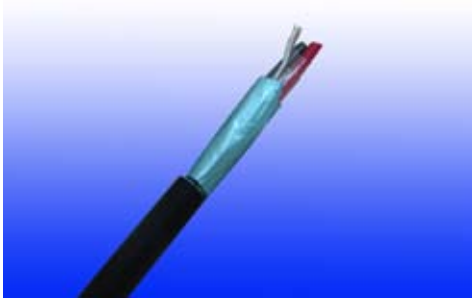
Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



SACS (Security Access Control System)

RS485 Data Cable RE-02Y(St)H 1P18A

RE-02Y(St)H 1P18A (CU/PE/OSCR/LSZH 1×2×18AWG)



APPLICATIONS

The cables are designed for RS485 data connections. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design	EIA/TIA 485
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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331-23 / NF C 32-070-2.3(CR1)

CABLE CONSTRUCTION

Conductors: Tinned annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Solid or foam PE compound

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk.

Overall Screen: Aluminum/ polyester tape with tinned copper drain wire.

Fire Barrier: Fireproof Tape.

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

ELECTRICAL PROPERTIES

Dielectric test	1000 V r.m.s. for 5' (core-core)
	1000 V r.m.s. for 5' (core-screen)
Impedance	120Ω
Capacitance	45 nF/km conductor to conductor
	90 nF/km conductor to shield

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

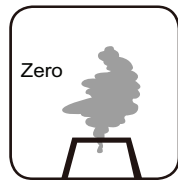
CONSTRUCTION PARAMETERS

RE-02Y(ST)H 1P18A

No. of pair ×	Wire Gauge	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	AWG	No/mm	mm	mm	mm	kg/km
1	18	7/0.404	1.15	1.2	10.5	100
1	18	16/0.254	1.15	1.2	10.5	100



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

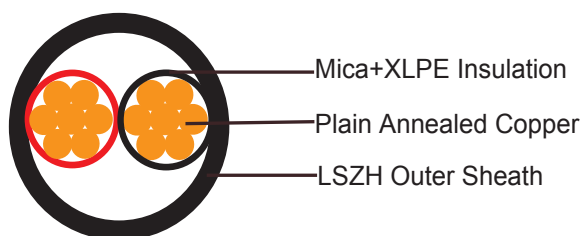


SACS (Security Access Control System)

Push Button Cable FFX200 05mRZ1-R/F 2G0.5

FFX200 05mRZ1-R 2G0.5 (CU/MGT+XLPE/LSZH 2×0.5mmsq 300/500V class 2)

FFX200 05mRZ1-F 2G0.5 (CU/MGT+XLPE/LSZH 2×0.5mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

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

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

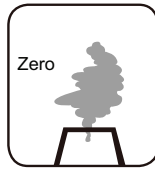
FFX200 05mRZ1-R 2G0.5

FFX200 05mRZ1-F 2G0.5

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
2	0.5	7/0.31	0.5	0.5	6.5	45
2	0.5	16/0.2	0.5	0.5	6.5	45



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

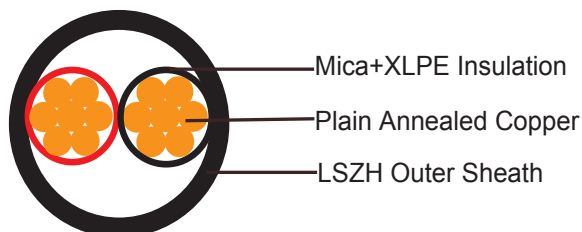


SACS (Security Access Control System)

Lock Cable FFX200 05mRZ1-R/F 2G1.0

FFX200 05mRZ1-R 2G1.0 (CU/MGT+XLPE/LSZH 2×1.0mmsq 300/500V class 2)

FFX200 05mRZ1-F 2G1.0 (CU/MGT+XLPE/LSZH 2×1.0mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

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



ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

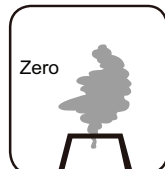
FFX200 05mRZ1-R 2G1.0

FFX200 05mRZ1-F 2G1.0

No. of core	Nominal Cross Sectional Area mm ²	Number & Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Approx. Weight kg/km
2	1.0	7/0.44	0.5	0.5	7.1	58
2	1.0	32/0.2	0.5	0.5	7.1	58



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

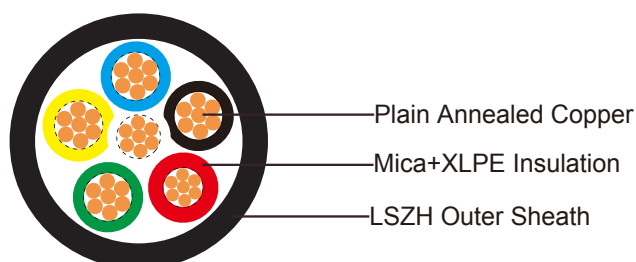


SACS (Security Access Control System)

Card Reader Cable FFX200 05mRZ1-R/F 6G0.5

FFX200 05mRZ1-R 6G0.5 (CU/MGT+XLPE/LSZH 6×0.5mmsq 300/500V class 2)

FFX200 05mRZ1-F 6G0.5 (CU/MGT+XLPE/LSZH 6×0.5mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

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

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

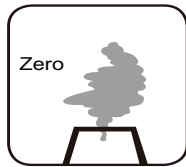
FFX200 05mRZ1-R 6G0.5

FFX200 05mRZ1-F 6G0.5

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
6	0.5	7/0.31	0.5	0.5	10.9	161
6	0.5	16/0.2	0.5	0.5	10.9	161



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-074



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



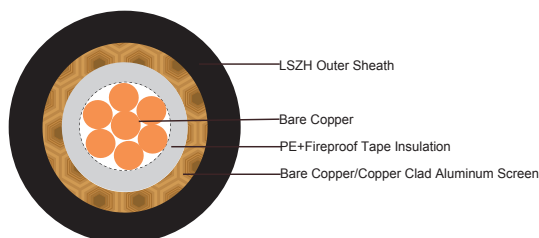
Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



CCTV (Closed Circuit TV)

Video Cable KX6 LH-FR

KX6 LH-FR



APPLICATIONS

The cables are designed for CCTV, security, smoke detection and evacuation monitoring applications, where continued functionality is required during a fire situation. Due to the zero halogen low smoke construction, this cable is ideal for use in public, commercial and industrial environments.

STANDARDS

Basic design	MIL-C-17
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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

CABLE CONSTRUCTION

Conductors: Bare Copper

Insulation: Solid PE+fire resistant tape

Screen: Bare copper/copper clad aluminum(CCA)(80% coverage)

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

ELECTRICAL PROPERTIES

Impedance	75±5 Ohm
Nominal capacitance	67 pF/m
Velocity of propagation	66%
Insulation resistance	>5000 Mohm.Km
Inner conductor resistance	87.5 Ohm/Km
Outer conductor resistance	21/32.5Ohm/Km
Operating temperature range	70 °C

PHYSICAL AND THERMAL PROPERTIES

Temperature range during operation (fixed state): -30°C - +70°C

Temperature range during installation (mobile state): -5°C - +60°C

Min. Bending Radius: 8 × Overall Diameter

ATTENUATION

For bare copper braid			For CCA braid		
Frequency	Attenuation	Attenuation	Frequency	Attenuation	Attenuation
Mhz	dB/100 m	dB/ft	Mhz	dB/100 m	dB/ft
10	5.0	1.52	-	-	-
50	8.1	2.47	50	8.1	2.47
100	13	3.96	100	13	3.96
200	18.5	5.64	200	18.5	5.64
400	22.5	6.86	400	22.5	6.86
850	34.5	10.52	850	34.5	10.52
950	37.5	11.43	950	37.5	11.43
1000	45	13.72	-	-	-

RETURN LOSS

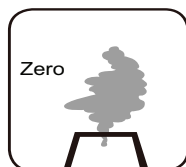
Frequency	Return Loss
MHz	(dB
5-1000	>=20

CONSTRUCTION PARAMETERS

Cable Code	Number & Nominal Diameter of Strands	Nominal Insulation Diameter	Nominal Sheath Thickness	Nominal Overall Diameter
	No/mm	mm	mm	mm
KX6 LH-FR	7/0.2	3.7	1.0	6.1



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-074



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



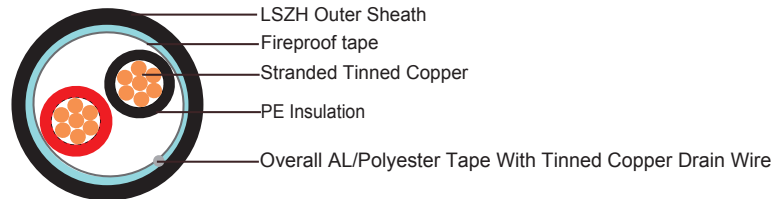
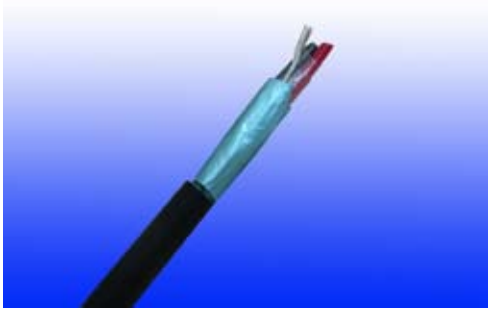
Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



CCTV (Closed Circuit TV) RS485 Data Cable RE-02Y(St)H 1P18A RE-02Y(St)H 1P18A (CU/PE/OSCR/LSZH 1×2×18AWG)



APPLICATIONS

The cables are designed for RS485 data connections. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design	EIA/TIA 485
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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331-23 / NF C 32-070-2.3(CR1)

CABLE CONSTRUCTION

Conductors: Tinned annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Solid or foam PE compound

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk.

Overall Screen: Aluminum/ polyester tape with tinned copper drain wire.

Fire Barrier: Fireproof Tape

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

ELECTRICAL PROPERTIES

Dielectric test	1000 V r.m.s. for 5' (core-core)
	1000 V r.m.s. for 5' (core-screen)
Impedance	120Ω
Capacitance	45 nF/km conductor to conductor
	90 nF/km conductor to shield

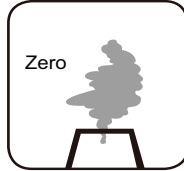
CONSTRUCTION PARAMETERS

RE-02Y(ST)H 1P18A

No. of pair ×	Wire Gauge	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	AWG	No/mm	mm	mm	mm	kg/km
1	18	7/0.404	1.15	1.2	10.5	100
1	18	16/0.254	1.15	1.2	10.5	100



Standard



Halogen Free
IEC60754-1/
EN50267-2-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-074



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

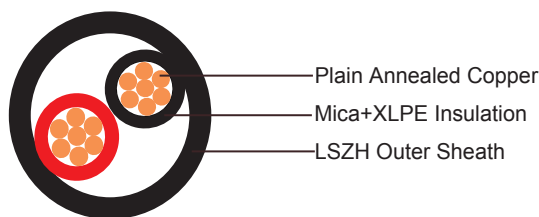


PAS (Public Address System)

Loudspeaker Cable FFX200 05mRZ1-R/F 2G1.0

FFX200 05mRZ1-R 2G1.0 (CU/MGT+XLPE/LSZH 2×1.0mmsq 300/500V class 2)

FFX200 05mRZ1-F 2G1.0 (CU/MGT+XLPE/LSZH 2×1.0mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

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

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

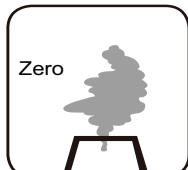
FFX200 05mRZ1-R 2G1.0

FFX200 05mRZ1-F 2G1.0

No.of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
2	1.0	7/0.44	0.5	0.5	5.3	47
2	1.0	32/0.2	0.5	0.5	5.3	47



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-074



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



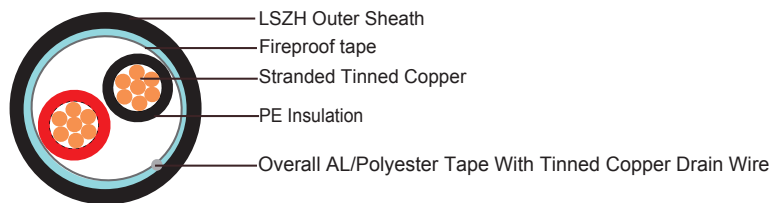
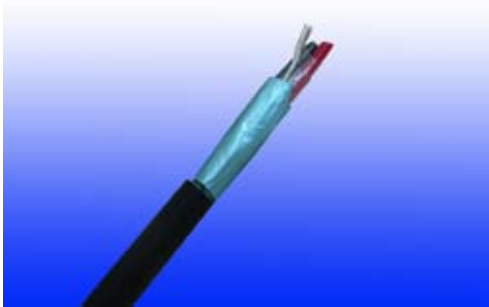
Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



PAS (Public Address System)

RS485 Data Cable RE-02Y(St)H 1P18A

RE-02Y(St)H 1P18A (CU/PE/OSCR/LSZH 1×2×18AWG)



APPLICATIONS

The cables are designed for RS485 data connections. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design	EIA/TIA 485
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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331-23 / NF C 32-070-2.3(CR1)

CABLE CONSTRUCTION

Conductors: Tinned annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Solid or foam PE compound

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk.

Overall Screen: Aluminum/ polyester tape with tinned copper drain wire.

Fire Barrier: Fireproof Tape.

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

ELECTRICAL PROPERTIES

Dielectric test	1000 V r.m.s. for 5' (core-core)
	1000 V r.m.s. for 5' (core-screen)
Impedance	120Ω
Capacitance	45 nF/km conductor to conductor
	90 nF/km conductor to shield

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

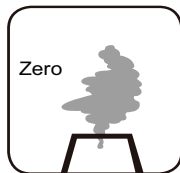
CONSTRUCTION PARAMETERS

RE-02Y(ST)H 1P18A

No.of pair	Wire Gauge	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	AWG	No/mm	mm	mm	mm	kg/km
1	18	7/0.404	1.15	1.2	10.5	100
1	18	16/0.254	1.15	1.2	10.5	100



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



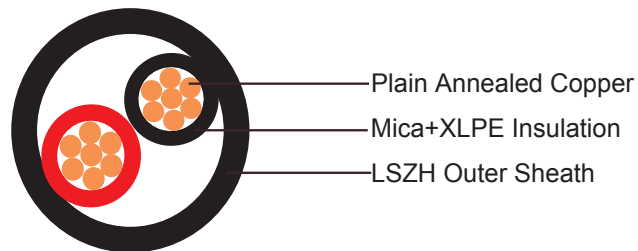
Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



BMS (Building Management System) Digital Signal Cable FFX200 05mRZ1-R/F 2G1.0

FFX200 05mRZ1-R 2G1.0 (CU/MGT+XLPE/LSZH 2×1.0mmsq 300/500V class 2)

FFX200 05mRZ1-F 2G1.0 (CU/MGT+XLPE/LSZH 2×1.0mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

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

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

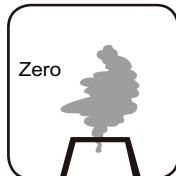
FFX200 05mRZ1-R 2G1.0

FFX200 05mRZ1-F 2G1.0

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
2	1.0	7/0.44	0.5	0.5	7.1	58
2	1.0	32/0.2	0.5	0.5	7.1	58



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-07:



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

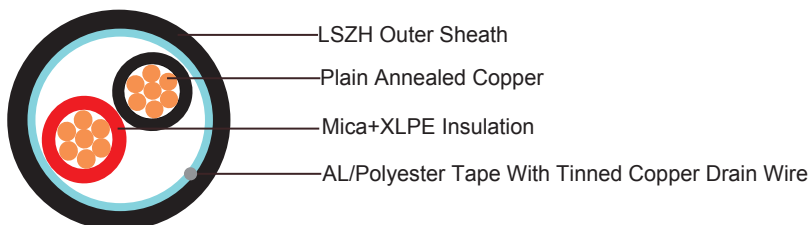


BMS (Building Management System)

Analog Signal Cable FFX200 05mROZ1-R/F 2G1.0

FFX200 05mROZ1-R 2G1.0 (CU/MGT+XLPE/OSCR/LSZH 2×1.0mmsq 300/500V class 2)

FFX200 05mROZ1-F 2G1.0 (CU/MGT+XLPE/OSCR/LSZH 2×1.0mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductors: Plain annealed copper wire, stranded according to EN 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

Cable Elements: Insulated cores are twisted to form pairs.

Cabling: Pairs are cabled together.

Overall Screen: Aluminum/polyester tape with copper drain wire.

Outer Sheath: Thermoplastic LSZH compound.



COLOUR CODE

Insulation Colour: According to IEC 60189-2 (other colour code on request).

Sheath Colour: Colour red (other colours on request).

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

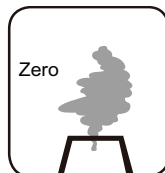
FFX200 05mROZ1-R 2G1.0

FFX200 05mROZ1-F 2G1.0

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
2	1.0	7/0.44	0.6	0.8	7.2	64
2	1.0	32/0.2	0.6	0.8	7.2	64



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-075



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1

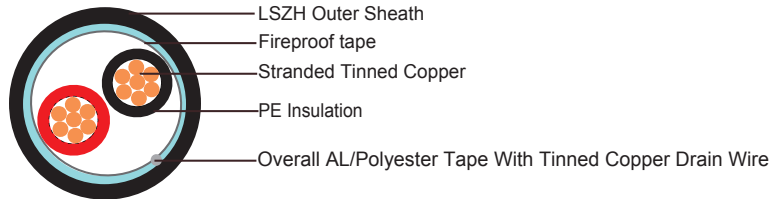
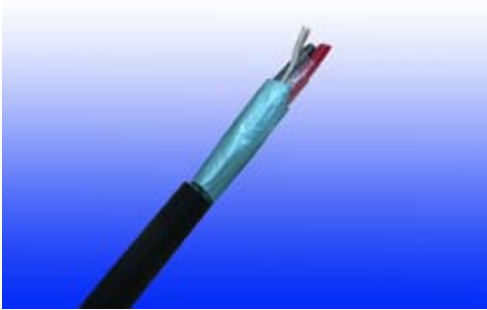


Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



BMS (Building Management System) RS485 Data Cable RE-02Y(St)H 1P18A

RE-02Y(St)H 1P18A (CU/PE/OSCR/LSZH 1×2×18AWG)



APPLICATIONS

The cables are designed for RS485 data connections. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

STANDARDS

Basic design	EIA/TIA 485
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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331-23 / NF C 32-070-2.3(CR1)

CABLE CONSTRUCTION

Conductors: Tinned annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Solid or foam PE compound

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk.

Overall Screen: Aluminum/ polyester tape with tinned copper drain wire.

Fire Barrier: Fireproof Tape.

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

ELECTRICAL PROPERTIES

Dielectric test	1000 V r.m.s. for 5' (core-core)
	1000 V r.m.s. for 5' (core-screen)
Impedance	120Ω
Capacitance	45 nF/km conductor to conductor
	90 nF/km conductor to shield

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

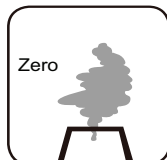
CONSTRUCTION PARAMETERS

RE-02Y(ST)H 1P18A

No. of pair	Wire Gauge	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	AWG	No/mm	mm	mm	mm	kg/km
1	18	7/0.404	1.15	1.2	10.5	100
1	18	16/0.254	1.15	1.2	10.5	100



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



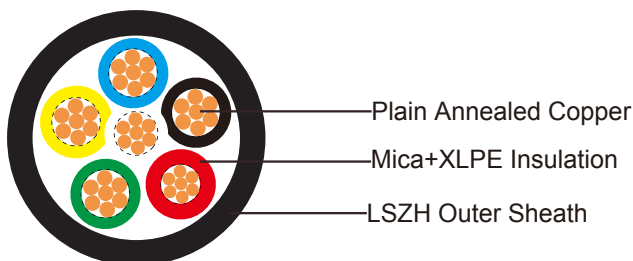
Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



BMS (Building Management System) Temperature Control Cable FFX200 05mRZ1-R/F 6G0.5

FFX200 05mRZ1-R 6G0.5 (CU/MGT+XLPE/LSZH 6×0.5mmsq 300/500V class 2)

FFX200 05mRZ1-F 6G0.5 (CU/MGT+XLPE/LSZH 6×0.5mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

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

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

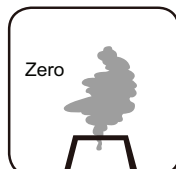
FFX200 05mRZ1-R 6G0.5

FFX200 05mRZ1-F 6G0.5

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
6	0.5	7/0.31	0.5	0.5	10.9	161
6	0.5	16/0.2	0.5	0.5	10.9	161



Standard



Halogen Free
IEC60754-1/
EN50267-2-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-074



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

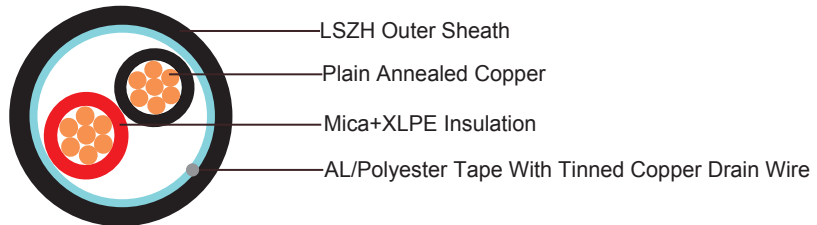
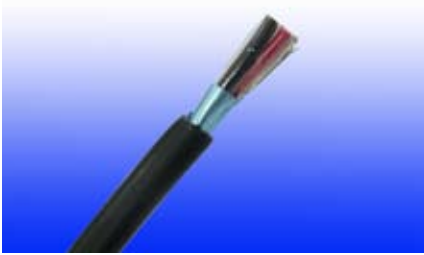


BMS (Building Management System)

Analog Signal Cable FFX200 05mROZ1-R/F 2G1.5

FFX200 05mROZ1-R 2G1.5 (CU/MGT+XLPE/OSCR/LSZH 2×1.5mmsq 300/500V class 2)

FFX200 05mROZ1-F 2G1.5 (CU/MGT+XLPE/OSCR/LSZH 2×1.5mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductors: Plain annealed copper wire, stranded according to EN 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

Cable Elements: Insulated cores are twisted to form pairs.

Cabling: Pairs are cabled together.

Overall Screen: Aluminum/polyester tape with copper drain wire.

Outer Sheath: Thermoplastic LSZH compound.

COLOUR CODE

Insulation Colour: According to IEC 60189-2 (other colour code on request).

Sheath Colour: Colour red (other colours on request).

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

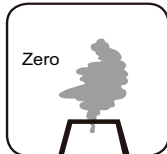
FFX200 05mROZ1-R 2G1.5

FFX200 05mROZ1-F 2G1.5

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
2	1.5	7/0.53	0.6	0.8	6.5	96
2	1.5	30/0.25	0.6	0.8	6.5	96



Standard



Halogen Free
IEC60754-1/
EN50267-2-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-075



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



CPMS (Car Park Management System)

Communication Cable FFX200 05mROZ1-R/F 3P0.75

FFX200 05mROZ1-R 3P0.75 (CU/MGT+XLPE/OSCR/LSZH 3×2×0.75mmsq 300/500V class 2)

FFX200 05mROZ1-F 3P0.75 (CU/MGT+XLPE/OSCR/LSZH 3×2×0.75mmsq 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.

STANDARDS

Basic design	BS 7629
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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductors: Plain annealed copper wire, stranded according to EN 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

Cable Elements: Insulated cores are twisted to form pairs.

Cabling: Pairs are cabled together.

Overall Screen: Aluminum/polyester tape with copper drain wire.

Outer Sheath: Thermoplastic LSZH compound.

COLOUR CODE

Insulation Colour: According to IEC 60189-2 (other colour code on request).

Sheath Colour: Colour red (other colours on request).

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

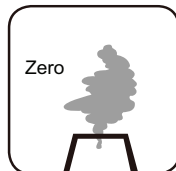
FFX200 05mROZ1-R 3P0.75

FFX200 05mROZ1-F 3P0.75

No. of pair	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
3	0.75	7/0.37	0.6	1.0	11.5	126
3	0.75	24/0.2	0.6	1.0	11.5	126



Standard



Halogen Free
IEC60754-1/
EN50267-2-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardancy
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)

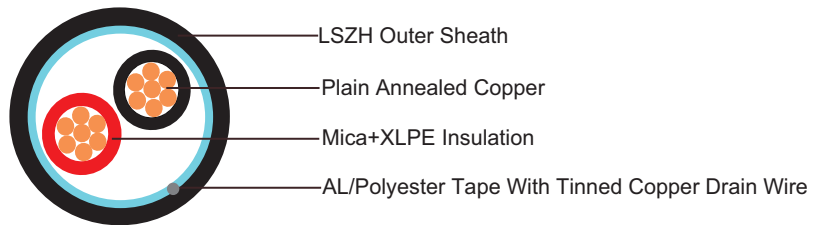
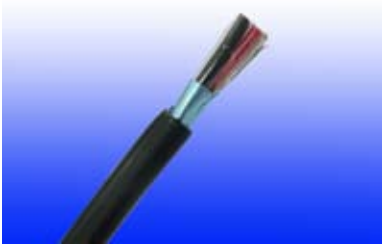


CPMS (Car Park Management System)

Talk-back Cable FFX200 05mROZ1-R/F 2G1.0

FFX200 05mROZ1-R 2G1.0 (CU/MGT+XLPE/OSCR/LSZH 2×1.0mmsq 300/500V class 2)

FFX200 05mROZ1-F 2G1.0 (CU/MGT+XLPE/OSCR/LSZH 2×1.0mmsq 300/500V class 5)



APPLICATIONS

The cables are multicore 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.

STANDARDS

Basic design	BS 7629
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 32070-2.2 (C1)
Flame Retardance	IEC 60332-1 / NF C 32-070-2.1 (C2)
Fire Resistance	IEC 60331 / NF C 32070-2.3(CR1)

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductors: Plain annealed copper wire, stranded according to EN 60228 class 2 or class 5.

Insulation: Mica glass tape covered by extruded cross-linked XLPE compound.

Cable Elements: Insulated cores are twisted to form pairs.

Cabling: Pairs are cabled together.

Overall Screen: Aluminum/polyester tape with copper drain wire.

Outer Sheath: Thermoplastic LSZH compound.

COLOUR CODE

Insulation Colour: According to IEC 60189-2 (other colour code on request).

Sheath Colour: Colour red (other colours on request).

ELECTRICAL PROPERTIES

Dielectric test:	2000 V r.m.s. x 5' (core/core)
Insulation resistance	1000 MΩ x km (at 20°C)
Short circuit temperature	250°C

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

CONSTRUCTION PARAMETERS

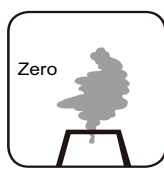
FFX200 05mROZ1-R 2G1.0

FFX200 05mROZ1-F 2G1.0

No. of core	Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Approx. Weight
	mm ²	No/mm	mm	mm	mm	kg/km
2	1.0	7/0.44	0.6	0.9	7.2	64
2	1.0	32/0.2	0.6	0.9	7.2	64



Standard



Halogen Free
IEC60754-1



Low Corrosivity
IEC60754-2
EN50267-2-2/3
NF C 32-074



Low Smoke Emission
IEC 61034-1&2
EN 50268-1&2/NF C32-073



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



Flame Retardance
IEC60332-1-2
/NF C32-070-2.1(C2)



Fire Resistance
IEC 60331
/NF C 32070-2.3(CR1)



Current Carrying Capacities And Voltage Drop

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

Current-Carrying Capacities (Amp)

Conductor cross-sectional area	Reference Method 4 (enclosed in conduit in thermally insulating wall etc)		Reference Method 3 (enclosed in conduit on a wall or in trunking etc)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray, horizontal or vertical)		Reference Method 12 (free air)		
	2 cables, single-phase a.c. or d.c.	3 or 4 cables, 3-phase a.c.	2 cables, single-phase a.c. or d.c.	3 or 4 cables, 3-phase a.c.	2 cables, single-phase a.c. or d.c. flat and touching	3 or 4 cables, 3-phase a.c. flat and touching or trefoil	2 cables, single-phase a.c. or d.c. or flat and touching	3 or 4 cables, 3-phase a.c. flat and touching or trefoil	2 cables, single-phase a.c. or d.c. or 3 cables three phase	2 cables, single-phase a.c. or d.c. or 3 cables three phase	3 cables, trefoil 3-phase a.c.
1	2	3	4	5	6	7	8	9	10	11	12
mm ²	A	A	A	A	A	A	A	A	A	A	A
1.0	13	-	-	-	15	-	-	-	-	-	-
1.5	18	17	22	19	25	23	-	-	-	-	-
2.5	24	23	30	26	34	31	-	-	-	-	-

Voltage Drop (Per Amp Per Meter)

Nominal Cross Section Area	2 cables d.c.	2 cables, single-phase a.c.		3 or 4 cables, 3-phase a.c.		
		Ref. Methods 3 and 4 (enclosed in conduit etc, in or on a wall)	Ref. Methods 1 and 11 (clipped direct or on trays touching)	Ref. Methods 3 and 4 (enclosed in conduit etc, in or on a wall)	Ref. Methods 1, 11 and 12 (in trefoil)	Ref. Methods 1 and 11 (Flat and touching)
1	2	3	4	5	6	7
mm ²	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m
1.0	46	46	-	-	-	-
1.5	31	31	27	27	27	27
2.5	19	19	16	16	16	16



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