

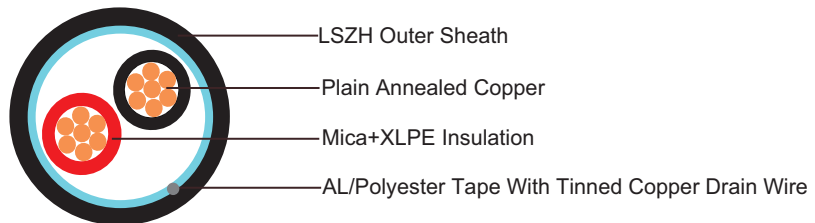


CPMS (Car Park Management System)

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

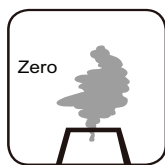
FFX200 05mROZ1-R 2G1.0

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. flat and touching	3 or 4 cables, 3-phase a.c. flat and touching or trefoil	Horizontal flat spaced	Vertical flat spaced	Trefoil
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