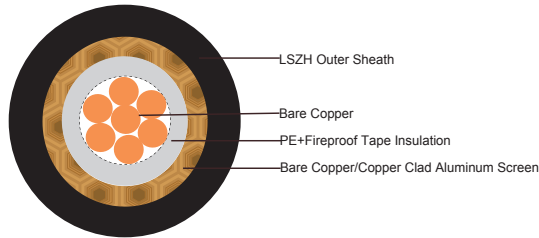




CCTV (Closed Circuit TV)

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

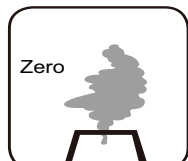
Frequency	Return Loss
MHz	(dB)
5-1000	>=20

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)