

FIRE ALARM-FiR (SHIELD)

2 Core (Cu/Mica Tape/PVC-FR/CAM+ATC Drain wire/PVC-FRLS)

APPLICATION

These cables are designed for emergency lighting, fire alarms, fire detection, audio circuits, control circuits and essential equipment in fire situations where an uninterrupted power supply has to be guaranteed. For fixed installation typically in fire alarm and emergency lighting circuits where circuit integrity must be maintained.

STANDARD

BS 5308-2 & BS 7629-1
BS 6387
IEC 60331-21

VOLTAGE GRADE

U₀/U (Um) : 300/500 (550) V

COLOR

Insulated core : ■ ■ or ■ ■ (Red & Black or Brown & Blue)
Sheath : ■ or ■ (Red or Orange or Other
Colors available on request)

CONSTRUCTION

Conductor: Solid/ Stranded Circular, Plain annealed copper, Class-1 or Class-2 to IEC 60228
Fire barrier: Mica tape (Synthetic or Glass)
Insulation: Flame retardant (FR) PVC, T11-FR to BS 7655
Drain wire: Annealed Tinned Copper, Class 1 to IEC 60228
Collective Shield: Aluminium Mylar Tape
Sheath: Flame retardant (FR) PVC, TM1-FRLS to BS 7655



PHYSICAL DATA									ELECTRICAL DATA		
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Thickness of Mica tape	Nominal thickness of insulation	Nominal size of circuit protective conductor	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. DC resistance of conductor at 20 °C	Current Carrying Capacity in conduit at 30°C	Current Carrying Capacity in air at 35°C
Core x mm ²	-	no./mm	mm	mm	mm ²	mm	mm	kg/km	W/Km	amps	amps
2 x 1.5	re	1/1.38	0.11	0.7	1.5 re	0.9	9.2	125	12.1	14	22
2 x 1.5	rm	7/0.52	0.11	0.7	1.5 re	0.9	9.5	130	12.1	14	22
2 x 2.5	re	1/1.78	0.11	0.8	2.5 re	1.0	10.5	175	7.41	18	30
2 x 2.5	rm	7/0.67	0.11	0.8	2.5 re	1.0	11.0	182	7.41	18	30

FIRE ALARM-FiR-LSZH (UN-SHIELD)

2 Core (Cu/Mica Tape/XLPE/LSZH)

APPLICATION

These cables are designed for emergency lighting, fire alarms, fire detection, audio circuits, control circuits and essential equipment in fire situations where an uninterrupted power supply has to be guaranteed.

For fixed installation typically in fire alarm and emergency lighting circuits where circuit integrity must be maintained.

STANDARD

BS 7629-1
BS 6387
IEC 60331

VOLTAGE GRADE

U₀/U (Um) : 300/500 (550) V

COLOR

Insulated core : ■ ■ or ■ ■ (Red & Black or Brown & Blue)
Sheath : ■ or ■ (Red or Orange or Other
Colors available on request)

CONSTRUCTION

Conductor: Solid/ Stranded Circular, Plain annealed copper, Class-1 or Class-2 To IEC 60228
Fire barrier: Mica tape (Synthetic or Glass)
Insulation: Cross-linked Polyethylene (XLPE), GP-8 to BS 7655
Drain wire: Annealed Tinned Copper, Class 1 to IEC 60228
Collective Shield: Aluminium Mylar Tape
Sheath: Low Smoke Zero Halogen (LSZH) Polyolefin, LTS-3 to BS 7655



PHYSICAL DATA									ELECTRICAL DATA		
Nominal cross sectional area of conductor	Shape of Conductor	No. of strands & diameter of wire	Thickness of Mica tape	Nominal thickness of insulation	Nominal size of circuit protective conductor	Nominal thickness of sheath	Approx. Overall diameter	Approx. weight of cable	Max. DC resistance of conductor at 20 °C	Current Carrying Capacity in conduit at 30°C	Current Carrying Capacity in air at 35°C
Core x mm ²	-	no./mm	mm	mm	mm ²	mm	mm	kg/km	W/Km	amps	amps
2 x 1.5	re	1/1.38	0.11	0.7	1.5 re	0.9	9.2	120	12.1	16	25
2 x 1.5	rm	7/0.52	0.11	0.7	1.5 re	0.9	9.5	125	12.1	16	25
2 x 2.5	re	1/1.78	0.11	0.8	2.5 re	1.0	10.5	170	7.41	20	33
2 x 2.5	rm	7/0.67	0.11	0.8	2.5 re	1.0	11.0	175	7.41	20	33

Characteristics



Installation condition

