FIRE ALARM-FiR (UN-SHIELD)

2 Core (Cu/Mica Tape/PVC-FR/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

U_o/U (Um) : 300/500 (550) V

COLOR

Insulated core : Red & Black or Brown & Blue

Sheath : 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, TI1-FR to BS 7655

Sheath: Flame retardant Low Smoke (FRLS) 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 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 mm²	-	no./mm	mm	mm	mm	mm	kg/km	W/Km	amps	amps
2 x 1.5	re	1/1.38	0.11	0.7	0.9	8.5	98	12.1	14	22
2 x 1.5	rm	7/0.52	0.11	0.7	0.9	9.0	105	12.1	14	22
2 x 2.5	re	1/1.78	0.11	0.8	1.0	10.2	135	7.41	18	30
2 x 2.5	rm	7/0.67	0.11	0.8	1.0	10.8	145	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

U_o/U (Um) : 300/500 (550) V

COLOR

Insulated core : Red & Black or Brown & Blue)

Sheath : Red or Orange or Other

(Colors available on request)

CONSTRUCTION

Conductor: Solid or Stranded Circular, Plain annealed copper, Class-1 or Class-2, IEC 60228

Fire barrier: Mica tape (Synthetic or Glass)

Insulation: Cross-linked Polyethylene (XLPE), GP-8, BS 7655

Sheath: Low Smoke Zero Halogen (LSZH) Polyolefin, LTS-3, 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 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 mm²	-	no./mm	mm	mm	mm	mm	kg/km	W/Km	amps	amps
2 x 1.5	re	1/1.38	0.11	0.7	0.9	8.5	94	12.1	16	25
2 x 1.5	rm	7/0.52	0.11	0.7	0.9	9.0	101	12.1	16	25
2 x 2.5	re	1/1.78	0.11	0.8	1.0	10.2	130	7.41	20	33
2 x 2.5	rm	7/0.67	0.11	0.8	1.0	10.8	140	7.41	20	33

Characteristics

Operating Temperature

Maximum Short Circuit 750°C

Fire Resistant IEC 60331 BS 6387

Flames don't Spread IEC 60332-3-24

Lead free

Rigid

Flame Retardant IEC 60332-1-2

Test 1.5-2kV

Installation condition

Industrial Use

Home Use

Fire Fighting Use

Open air

In Duct

In Conduit

PARTEX Cables powering with safety