



FR CABLE

BS 7629

These are pliable Fire Resistant Screened Cable having low emission of smoke and corrosive gases when affected by fire which are designed to meet fire resistant test of BSEN 50200 : 2000

CONSTRUCTION

- Copper conductor : Plain annealed copper conductor complying with IEC 60228 ,class1 or class 2
- Primary Insulation : Special insulation to meet fire resistance characteristics
- Screen : Laminated Aluminium Tape screen contact with full size tinned annealed
Copper circuit protective conductor
- Sheath : Robust LSZH (LSHF/LSOH) Sheath

CHARACTERISTICS



















General	These cables are screened cables designed as per BS 7629 for application requiring standard Fire Resistance
Voltage Grade	300/500 V
Acid gas emission	Less than 0.5% when tested to IEC 60754
Low smoke emission	As per IEC 61034
Cable Operating temperature	Maximum 90°C
Short circuit temperature	Maximum 250°C
Colour	White and red sheath are standard ,other colour available on request.
Packing	100 mtrs reels and other packing and length available on request
key application	The use of cable with standars fire resistance is recommended for general use for fire detection,voice alarm ,addressable systemand emegency lighting

TECHNICAL DATA

BS 7629

300/500 V

No. of core	conductor area	No. of wire	Nominal diameter of conductor / wire	Thickness of insulation	Outer sheath Thickness	Approximate overall diameter	Maximum conductor resistance at 20 °C	maximum conductor resistance at 70 °C	approx capacitance (adjacent core)	approx capacitance (core to screen)
	mm ²		mm	mm	mm	mm	Ohm/km	Ohm/km	(pf/k.m)	(pf/k.m)
2	1	1	1.13	0.6	0.9	6.50	18.1	21.7	85	170
2	1.5	1	1.37	0.7	0.9	7.35	12.1	14.5	95	180
2	2.5	7	0.67	0.8	1	9.00	7.41	8.8	100	190
2	4	7	0.85	0.8	1	10.20	4.61	5.5	100	190
3	1	1	1.13	0.6	0.9	6.80	18.1	21.7	85	170
3	1.5	1	1.37	0.7	0.9	7.80	12.1	14.5	95	180
3	2.5	7	0.67	0.8	1	9.55	7.41	8.8	100	190
4	1	1	1.13	0.6	0.9	7.45	18.1	21.7	85	170
4	1.5	1	1.37	0.7	1	8.70	12.1	14.5	95	180
4	2.5	7	0.67	0.8	1.1	10.70	7.41	8.8	100	190

	CORE IDENTIFICATION NEW				CORE IDENTIFICATION OLD			
2 Core								
	Brown	Blue			Red	Black		
3 Core								
	Brown	Black	Grey		Red	Yellow	Blue	
4 Core								
	Blue	Brown	Black	Grey	Red	Yellow	Blue	Black