

FLAME-X 950 SERIES 2

(Flame-X 950 Standard)

300/500V



BS 7629-1, BS 6387, BS 5839-1, BS 5266-1, BS 8519

TT1-7752v3 27.02.2024

LPCB Certificate No: 1354e/01

Fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire



CONSTRUCTION	
Conductors:	plain annealed copper solid class 1 or stranded class 2 acc. to BS EN 60228
Insulation:	special cross-linked heat resistant compound type EI2 acc. to BS EN 50363-1
Screen:	aluminium tape and uninsulated circuit protective conductor
Uninsulated circuit protective conductor:	tinned annealed copper conductor of the same nominal cross-sectional area and of the same class as the insulated conductors
Outer sheath:	thermoplastic zero halogen low smoke compound type LTS 3 acc. to BS 7655-6.1
Colour of sheath:	red or white (other colours are permissible when agreed with the manufacturer)
Core identification:	2 core + ECC: brown, blue 3 core + ECC: brown, black, grey 4 core + ECC: blue, brown, black, grey

CHARACTERISTIC	
Maximum conductor operating temperature:	+70°C
Minimum operating temperature (for fixed application) after installation without movement:	-40°C
Lowest installation temperature:	0°C
Maximum short-circuit conductor temperature:	+250°C
Minimum bending radius:	6D; (D - overall cable diameter)

FIRE PERFORMANCE	
Resistance to fire:	BS 7629-1: Standard 30 BS 6387 Category C – resistance to fire: 3 h at 950°C (IEC 60331) Category W – resistance to fire with water: 15 min at 650°C plus 15 min with water spray Category Z – resistance to fire with mechanical shock: 15 min at 950°C BS EN 50200 Class PH120 (resistance to fire, with mechanical shock: 120min) BS 5266-1 BS 8519 Clause 11: Category 1
Flame propagation:	BS EN 60332-1-2 (IEC 60332-1-2) and BS EN 60332-3-24 (IEC 60332-3-24)

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TELE-FONIKA Kable S.A.

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Smoke density:	BS EN 61034-2 (IEC 61034-2)
Gases evolved during combustion:	BS EN 60754-1:2014 (IEC 60754-1): HCl content < 0.5% BS EN 60754-2:2014 (IEC 60754-2): pH ≥ 4.3; conductivity ≤ 10 μSmm ⁻¹

APPLICATIONS

Installations emergency lighting and evacuation systems, fire and smoke detection systems air-conditioning and alarm systems, automatic elevator doors, computer control rooms, offshore and marine emergency systems, emergency evacuation communicators.

Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request
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Number and cross-sectional area of conductor	Conductor class	Nominal cross-sectional area of protective conductor ECC	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at 20°C	Max. ECC conductor resistance at 20°C
n x mm ²		mm ²	mm	kg/km	Ω/km	Ω/km
2x1RE+ECC	1	1	7.0	68	18.1	18.2
2x1.5RE+ECC	1	1.5	7.9	89	12.1	12.2
2x1.5RM+ECC	2	1.5	8.3	93	12.1	12.2
2x2.5RE+ECC	1	2.5	9.2	130	7.41	7.56
2x2.5RM+ECC	2	2.5	10.3	137	7.41	7.56
2x4RM+ECC	2	4	11.6	191	4.61	4.70
3x1.5RE+ECC	1	1.5	8.3	111	12.1	12.2
3x1.5RM+ECC	2	1.5	8.8	117	12.1	12.2
3x2.5RE+ECC	1	2.5	9.8	164	7.41	7.56
3x2.5RM+ECC	2	2.5	10.3	173	7.41	7.56
3x4RM+ECC	2	4	11.6	244	4.61	4.70
4x1.5RE+ECC	1	1.5	9.6	141	12.1	12.2
4x1.5RM+ECC	2	1.5	10.2	151	12.1	12.2
4x2.5RE+ECC	1	2.5	11.5	210	7.41	7.56
4x2.5RM+ECC	2	2.5	12.4	222	7.41	7.56
4x4RM+ECC	2	4	14.6	315	4.61	4.70

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Current ratings and voltage drop

Ambient air temperature: 30°C. Conductor operating temperature: 70°C.

Installation as specified in Appendix 4 of BS 7671 IEE Wiring Regulations

Reference Method 1 (clipped direct)					Reference Method 3 (enclosed in conduit on a wall or ceiling, or in trunking)				
Nominal area of conduct or	1 two core cable* single phase a.c. or d.c.		1 three-core or 1 four- core cable*, three-phase a.c.		Nominal area of conductor	1 two core cable* single phase a.c. or d.c.		1 three-core or 1 four- core cable*, three- phase a.c.	
	Current rating	Volts drop per ampere par metre	Current rating	Volts drop per ampere par metre		Current rating	Volts drop per ampere par metre	Current rating	Volts drop per ampere par metre
mm ²	A	mV/ m	A	mV/ m	mm ²	A	mV/ m	A	mV/ m
1.0	15	44	13.5	38	1.0	13	44	11.5	38
1.5	19.5	29	17.5	25	1.5	16.5	29	15	25
2.5	27	18	24	15	2.5	23	18	20	15
4.0	36	11	32	9.5	4.0	30	11	27	9.5

* with protective conductor

Rating factors for ambient temperature

Ambient temperature, °C	25	30	35	40	45	50
Rating factor	1.03	1.00	0.94	0.87	0.79	0.71

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