

PRODUCT DATASHEET

RoHS

FLEXIBLE CONTROL CABLE With SHIELDING FIRE RESISTANT IEC60331



Firekab Fleco-I FE180



*Red color outer sheath will apply for "Fleco-I" fire resistant range

Applications

The fire resistant cables are used for fire alarm systems, power supply or control of equipment that needs to function during a fire such as warning, emergency lighting, evacuation and monitor systems. The place of usage is intelligent or semi-intelligent building where dense human population or valuable goods are found. These are be hospitals, cinemas, theatres, schools, shopping centers, airports, factories, etc.

Firekab Fleco are UV resistant and low smoke halogen free. LSHF versions are less flammable in case of fire, mostly self extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during fire. With 100% screen coverage, offers optimum protection against external interference at medium and high frequencies.

Construction

Conductor	Stranded bare copper wires (IEC/EN 228, VDE0295 – Class 5)
Insulation	Fire resistant silicon rubber (HD22.I BS7655 EI2) FRSR
Insulation color	Color Code : DIN 47100 (more than 05 cores – White core insulation/Black numbered)
Lay up	Cores twisted together
Flame Barrier	Fire resistant Glass fiber FRGF
Drain Wire	Tinned copper solid wire
Shield	Aluminium laminated polyester tape (Overall screen AL)
Sheath	Halogen Free Low Smoke Compound – Flame Retardant HFFR Red(RAL 3000)
Construction sum	FireKab Cu.Cl5/FRSR/FRGF/OS/HF-FR or FireKab Cu/FR/OS/HF-FR

Technical and Electrical Properties (20°C)

Operating Voltage	300/500V
Test Voltage	Core/Core 2000 V
Conductor Resistance (max.)	0.50 mm ² : 39.0 Ω/Km 0.75 mm ² : 26.0 Ω/Km 1.00 mm ² : 19.3 Ω/Km 1.50 mm ² : 13.3 Ω/Km 2.50 mm ² : 8.3 Ω/Km
Inductance	0.65 mH/Km
Insulation Resistance	Min 200 M.Ωm/Km
Temperature Range	-30°C ... + 90°C Fixed -10°C ... + 90°C Flexible
Minimum Bending Radius	7.5 x Cable Diameter Fixed 10 x Cable Diameter Flexible
Flame Tests	IEC/EN 60332-1-2, IEC 60332-3-24, (BS 4066 part 1&3 , EN 50266-2-24)
Insulation Integrity	IEC 60331-21, BS 6387CATB, EN50200 PH120 (LPCB, QUATEST 3 approved)

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Cable Information

Ref Order No.	No. of Cores x cross sections (mm ²)	Approx. Cable Diameter (mm±5%)	Copper Weight (Kg/Km)	Approx. Cable Weight (Kg/Km±5%)
Firekab Fleco-I FE180 - Outer Sheath : PVC-FR version				
95500502	2x0.50	5.00	11	32
95500503	3x0.50	5.30	16	41
95500504	4x0.50	6.00	20	50
95500505	5x0.50	7.00	24	65
95500510	10x0.50	9.60	45	130
95500802	2x0.75	5.60	18	42
95500803	3x0.75	6.00	24	55
95500804	4x0.75	6.80	31	70
95500805	5x0.75	7.50	37	85
95500810	10x0.75	10.70	69	165
95501002	2x1.00	6.00	23	50
95501003	3x1.00	6.20	31	65
95501004	4x1.00	7.00	40	81
95501005	5x1.00	8.00	51	100
95501007	7x1.00	8.50	67	130
95501010	10x1.00	11.20	94	195
95501502	2x1.50	7.20	32	70
95501503	3x1.50	7.60	45	92
95501504	4x1.50	8.20	58	114
95501505	5x1.50	10.0	71	150
95501507	7x1.50	10.5	97	195
95501510	10x1.50	13.2	137	280
95502502	2x2.50	8.10	51	100
95502503	3x2.50	9.60	72	136
95502504	4x2.50	11.8	95	188

Remarks

- We are pleased to produce special versions, other dimensions, cores and jacket colors on request.