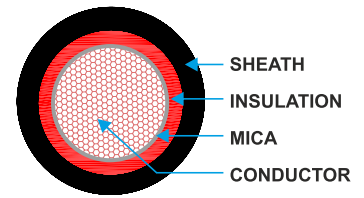




Fire Survival Cables

Single core Unarmoured



Application

Fire Survival or Circuit Integrity Cables (CIC) are essential for critical electrical circuits that must function in emergencies, such as safety circuits and life support circuits. These cables are typically used in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals, and high-rise buildings. They play a crucial role in ensuring that these infrastructures operate safely and reliably when needed the most.

Properties

- Resistance to fire alone : Cat.-C 950°C / 3Hrs.
- Resistance to fire with water : Cat.-W
- Resistance to fire with mechanical shock : Cat.-Z / 950°C
- Long-term circuit integrity in a fire (IEC 60331-21; BS 6387)
- Low smoke ASTM D-2843, and toxic gas emissions, zero halogen gases (IEC 61034-2, IEC 60754-1; EN 50267-2-1)
- UV resistance, hydrocarbon resistance, oil resistance, anti-rodent

Construction

- Conductor : Annealed copper conductor (IEC : 60228) class-5 / class-2
- Insulation : Halogen free XLPE primary insulation material (Type EI 5 to EN 50363-5)
- Cover / Tape : MICA tape fire resisting barrier
- Sheath : Flame retardant LSZH type LTS 1

Technical Parameter

- Operating temperature : -25°C to +90°C
- Rated voltage : 300 / 500 for 0.50 to 1.00mm², 600 / 1100V above 1.00mm²
- Standard compliance : IEC 60331; BS 6387: BS 8491: BS 8434/2, IEC 60332 - 1 & 3.
- Compliance : RoHS



0201 - Fire Survival Cables

Single Core, Solid, Stranded, Flexible, Unarmoured Cable.

Part Code	Conductor No. of Cores × Cross-sectional Area No. × mm ²	Conductor Class	Dimensional and Weight			
			Nominal Insulation Thickness	Min. Overall Diameter	Max. Overall Diameter	Approx. Weight
			mm	mm	mm	kg/km
0201T010005S	1×0.5	1	0.6	2.9	3.3	13.5
0201T010007S	1×0.75	1	0.6	3.1	3.5	16.5
0201T010010S	1×1.0	1	0.6	3.2	3.7	19.7
0201T010005R	1×0.5	2	0.6	3.0	3.4	14.4
0201T010007R	1×0.75	2	0.6	3.2	3.6	17.3
0201T010010R	1×1.0	2	0.6	3.3	3.8	21.3
0201T010005F	1×0.5	5	0.6	3.1	3.5	14.2
0201T010007F	1×0.75	5	0.6	3.2	3.7	17.7
0201T010010F	1×1.0	5	0.6	3.4	3.8	20.7

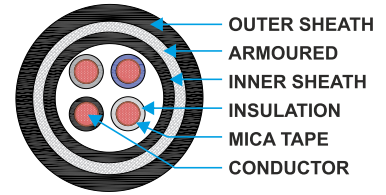
Note: Conductor class-2, class-5 Available on customer request





Fire Survival Cables

Multi core Armoured



0202 - Fire Survival Cables

Application

These cables, also known as Circuit Integrity Cables, are designed to withstand high temperatures for a certain minimum period under direct fire. These cables are useful to maintain circuit integrity during the defined period of fire, and their construction differs from that of ordinary cables. The conductor is manufactured with specially designed heat barriers and fire-resistant insulation, preventing fire from reaching the conductor surface. These cables operate at high temperatures of up to 650°C, 750°C, and 950°C, depending on various operational conditions and applications. They are commonly used in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals, and high-rise buildings.

Properties

- Resistance to fire alone : Cat.-C 950°C / 3Hrs.
- Resistance to fire with water : Cat.-W
- Resistance to fire with mechanical shock : Cat.-Z / 950°C
- Long-term circuit integrity in a fire (IEC 60331-21; BS 6387 CWZ)
- Low smoke ASTM D-2843, and toxic gas emissions, zero halogen gases (IEC 61034-2, IEC 60754-1; EN 50267-2-1)
- UV resistance, hydrocarbon resistance, oil resistance, anti-rodent

Construction

- Conductor : Annealed copper conductor (IEC : 60228) class-2 / class-5
- Insulation : Halogen free XLPE primary insulation material (Type EI 5 to EN 50363-5)
- Tape : MICA tape fire resisting barrier
- Inner sheath : LSZH
- Armouring : G.I. round wire
- Outer sheath : Flame retardant LSZH type LTS 1

Technical Parameter

- Operating temperature : -25°C to +90°C
- Rated voltage : 600 / 1000V
- Standard compliance : BS : 7846, IEC 60331, BS 6387, BS 8491: BS : 8434 / 2, BS : 7655, BS : 50363-5, IEC 60332 - 1 & 3 cat A,B,C.
- Compliance : RoHS



Multi Core, Flexible, Armoured Cable

Part Code	Nom. C.S. Area.	No. of Core	Insulation Thick	Nom. Armour Wire Dia	Diameter Under Armoured	Overall Diameter Approx.	Max. DC Conductor Resistance	Max. AC Conductor Resistance	Approx. Cable Wt.
	mm ²								
0202T020015	1.50	2	0.60	0.90	8.50	13.0	12.10	15.42	415
0202T020025	2.50	2	0.70	0.90	10.0	14.5	7.41	9.44	495
0202T020040	4.0	2	0.70	0.90	11.0	15.5	4.61	5.87	575
0202T020060	6.0	2	0.70	0.90	12.5	17.0	3.08	3.92	655
0202T020100	10	2	0.70	0.90	14.0	19.0	1.83	2.33	820
0202T020160	16	2	0.70	1.25	16.0	21.5	1.15	1.46	1005
0202T030015	1.50	3	0.60	0.90	9.0	13.50	12.1	15.42	423
0202T030025	2.50	3	0.70	0.90	10.5	15.0	7.41	9.44	544
0202T030040	4.0	3	0.70	0.90	11.5	16.5	4.61	5.87	644
0202T030060	6.0	3	0.70	0.90	13.0	17.5	3.08	3.92	738
0202T030100	10	3	0.70	1.25	15.0	20.5	1.83	2.33	1085
0202T030160	16	3	0.70	1.25	17.0	22.5	1.15	1.46	1313
0202T040015	1.50	4	0.60	0.90	10.0	14.8	12.1	15.42	522
0202T040025	2.50	4	0.70	0.90	11.5	16.0	7.41	9.44	618
0202T040040	4.0	4	0.70	0.90	13.0	17.8	4.61	5.87	725
0202T040060	6.0	4	0.70	1.25	14.50	20.0	3.08	3.92	985
0202T040100	10	4	0.70	1.25	16.5	22.0	1.83	2.33	1255

Note: Conductor Class-2 available on customer request.

