



innovative solutions

Fire Survival Test Apparatus As per BS 6387, BS 7846, BS 8491 Model No SSI 512 BS



This instrument is designed to testing cables required to maintain circuit integrity when subject to fire where the test conditions is based upon a flame with a controlled heat output corresponding to a temperature of at up to 950°C.

The instrument also test the circuit integrity of the cable under fire with mechanical shock and water sprinkler in tandem with the flame survival.

The instrument is designed to test cables under

Protocol C: subject the cable under test to a flame via direct impingement corresponding to a temperature attach of 950°C as per BS 6387

Protocol W: subject the cable under test to a flame via direct impingement corresponding to a temperature attach of 650°C with direct application of water simulating a sprinkler system as per BS 6387

Protocol Z: subject the cable under test to a flame via direct impingement corresponding to a temperature attach of 950°C with indirect application of mechanical shock as per BS 6387

Category F2: Resistance to Fire, Resistance to fire with water, resistance to Fire with Mechanical Shock assessed separately as per BS 6387

Category F30: Resistance to Fire with direct mechanical impact and water assessed in combination when tested as per BS 8491:2008 for 30 min

Category F60: Resistance to Fire with direct mechanical impact and water assessed in combination when tested as per BS 8491:2008 for 60 min.

Category F120: Resistance to Fire with direct mechanical impact and water assessed in combination when tested as per BS 8491:2008 for 120 min

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Fire Survival Test Apparatus As per BS 6387 : 2013 Model No SSI 512 BS



The Instrument Consist of

- ✚ Burner 1 : LPG gas Tube type burner with venture mixer. Overall length of the nozzle is 610mm, as per BS 6387:2013
- ✚ Burner 2: LPG gas Ribbon Type burner with venture mixer. Overall length of the nozzle is 500mm with three staggered row of holes. This burner setting will be used for both test under mechanical shock and water flame test as per BS 6387: 2013
- ✚ Burner Control: With double flow meters and pressure regulator. Air flow meters range is : 5-95 LPM for air and 2-24 LPM for fuel
Flame Temperature: According to the test Protocol, the flame temperature is adjustable temperature from 600 to 1000° C, (Protocol C: 950° C , Protocol W: 650° C and the Protocol Z: 950° C)
- ✚ Power Source : Three phase, 50 Hz compatible power source for three core cables
- ✚ Voltage: 0-1000 V adjustable as per requirement (Higher Voltage available on request)
- ✚ Current : 0.1 to 0.25 A
- ✚ Leakage Current : 3 A
- ✚ Safety: The electrical circuit is designed with appropriate safety features such that the circuit trips in case of cable break down or short circuit.
- ✚ Jig for Fire Only as per BS 6387: 2013
- ✚ Jig for Fire with Mechanical Shock, complete with Sample stand and shock producing device as per BS 6387: 2013
- ✚ Jig for Fire with Water Sprinkler system, complete with water tank, sprinkler system and water control panel as per BS 6387: 2013
- ✚ Jig for Fire with mechanical shock and Water in combination as per BS 8491:2008

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An ISO 9001:2008 Company
GMP compliant



Electric Control Panel



Burner Control Panel



Flammability Panel



Mechanical Shock Panel



Test Chamber



Water Sprinkler Panel



Load Bank

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