Introduction

SR (Silicone Rubber) insulated fire resistant control cables are designed to maintain circuit integrity under fire conditions, providing reliable performance in high-temperature environments. These cables are highly flexible, resistant to extreme temperatures, and emit minimal smoke and toxic gases when exposed to fire.

Application

Control Systems: Utilized in control circuits for fire alarms, emergency systems, and monitoring equipment.
Industrial Automation: Suitable for control and instrumentation in industrial processes where high temperatures are present.
Transportation: Used in tunnels, subways, and railways for control systems requiring fire resistance.
Aerospace and Marine: Ideal for control wiring in aircraft, ships, and offshore platforms.

Performance

Rated voltage: 450/750 V
Temperature range during operation (fixed state): -30°C to +90°C
Temperature range during installation (mobile state): -20°C to +50°C
Minimum bending radius: 7.5 x Overall Diameter

Construction

Conductors: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2.
Insulation: Fire resistant silicone rubber compound
Cabling: The cores are cabled together in concentric layers with suitable non-hygroscopic fillers.
Outer Sheath: Thermoplastic LSZH compound

Specification

-IEC 60331: Specifies fire resistance performance, ensuring circuit integrity under fire conditions.
-BS 6387: Defines performance criteria for cables required to maintain circuit integrity under fire conditions.
-IEC 61034: Measures smoke density of cables burning under defined conditions.
-IEC 60754: Tests for halogen acid gas evolution.

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

No. of Cores × Nominal Cross Section Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Dia.	Approx. Weight
mm^2	mm	mm	mm	kg/km
2×1.5	0.8	1.0	7.8	96
2×2.5	0.9	1.1	9.2	138
2×4.0	0.9	1.2	10.5	189
3×1.5	0.8	1.0	8.3	116
3×2.5	0.9	1.1	9.8	169
3×4.0	0.9	1.2	11.6	246
4×1.5	0.8	1.1	9.3	147
4×2.5	0.9	1.2	11.3	222
4×4.0	0.9	1.3	12.5	299
5×1.5	0.8	1.1	10.5	180
5×2.5	0.9	1.2	12.3	259
5×4.0	0.9	1.3	14.0	359