



When safety cannot be compromised...

SEGURFOC **LAV** CLASS 2F

SEGURFOC FRA 950 BS7846

SEGURFOC FR 950 BS7211

SEGURFOC FR BS7211
SPEED PULL

Introduction

The performance requirements for cables in fire hazard conditions continue to develop due to the increasingly complex design of installations such as,

- High rise buildings
- Airports
- Public Buildings
- Libraries
- Hospitals
- Mass transit stations
- Shopping Centres
- Hotels, etc.

As the size and design of these types of installations increase, the number of people utilising these locations naturally develops and combined with the fact that as technology advances and machinery and equipment become more complex it is possible that the opportunities for a fire hazard could increase.

In the design of these installations, the designers must ensure that in the event of a fire hazard there are specific systems that guarantee that all circuits will continue to operate during, and some circuits after the fire hazard has been cleared allowing the applications to be shutdown safely and efficiently, therefore, allowing the evacuation procedure to take place without delay, to ensure that the evacuation and shutdown takes place without any risk to life or equipment. The cables that supply power to the essential circuits/systems



should offer the performance capability of being able to operate during and after a fire hazard.

The user must be concerned with the behaviour of cables in fires where other materials are burning. In this situation it is essential that burning cables do not propagate flames and produce noxious smoke or fumes which hinder fire fighting and endanger life.

General Cable have available the **SEGURFOC FR950** and **FRA 950** Cables which will not propagate fire even under onerous conditions of installation, and major reductions have been achieved in the emission of smoke, toxic fumes and corrosive gases from burning cables, in conjunction with the ability to offer fire resistance.

Every cable in the GENERAL CABLE **SEGURFOC** Range meets the relevant performance standards for fire resistancy low smoke and fume properties and is manufactured at factories which have been awarded the Certificate of Assessed Quality Management by BASEC and LPCB.



Fire Resistant Cables

SEGURFOC ~~LA~~ CLASS2F

RZ1F3Z1- K MICA

Description

Annealed Copper Conductors*, Mica Glass Taped, XLPE (Cross-Linked Polyethylene) Insulated, LSF (Low Smoke and Fume) Bedded, Corrugated Tape Armour**, LSF (Low Smoke and Fume) Sheated Black. 600/1000 volt rated, based on IEC 60502. BS 6387 Cat CWZ.

*Up to and incl. 35mm² - Circular, 50 mm² and above - Sector Shaped.

**Single Core: Aluminium Corrugated Tape Armour. Multicore: Galvanised Steel Corrugated Tape Armour.



Standards

- Fire resistant
- Rated working voltage: 0,6/1kV
- Working temperature (fixed installation): +90°C

Fire behaviour tests

- Non flame propagating BS-EN 60332-1-2 and IEC 60332-1
- Non fire-propagating per BS-EN 50266-2-4 and IEC 60332-3-24

- Corrosivity and acid gas emission BS-EN 50267-2-1, BS-EN 50267-2-2, IEC 60754.1 and IEC 60754-2 pH \geq 4,3 and conductivity \leq 10 μ S/mm, <0,5% acid gas
- Smoke emission BS-EN 61034-2 and IEC 61034
- Fire resistance IEC 60331-21, IEC 60331-31, BS-EN 50200, BS-EN 50362 and BS 6387 CWZ

Constructional specification based in IEC 60502

- Conductor per BS 6360 and IEC 60228 (Plain annealed copper stranded class 2 flexible)
- Mica Tape
- Insulation - Type GP8 BS 7655-1-3
- Bedding - Extruded LSOH Material
- Armour - Steel Corrugated Tape
- Sheath - ST-8 IEC 60502
- Core colour identification BS 7671



NON FLAME
PROPAGATION
BS-EN 60332-1-2
IEC 60332-1



NON FIRE
PROPAGATION
BS-EN 50266
IEC 60332-3



FIRE RESISTANT
BS-EN 50200 PH 90
IEC 60331
BS 6387
CATEGORY CWZ



LOW SMOKE
EMISSION
BS-EN 61034-2
IEC 61034



LOW TOXIC SMOKE
EMISSION
RATP K20



HALOGEN-FREE
BS-EN 50267
IEC 60754



MECHANICAL
PROTECTION
AGAINST RODENTS

Technical Specifications

SEGURFOC CLASS2F

RZ1F3Z1- K MICA

ARMOURED CABLE SEGURFOC LAV CLASS2F

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERAL DIAMETER mm	NOMINAL WEIGHT kg/km	BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
7375114	1x50	13	19,2	790	195	193	0,798	0,3870	7,1
7375115	1x70	15,1	21,3	1.035	215	246	0,581	0,2680	9,9
7375116	1x95	16,7	23,1	1.305	235	298	0,445	0,1930	13,5
7375117	1x120	18,7	25,1	1.610	255	345	0,371	0,1530	17,0
7375118	1x150	20,9	27,5	1.940	275	399	0,19	0,1240	21,3
7375119	1x185	22,8	29,6	2.310	300	457	0,274	0,0991	26,3
7375120	1x240	25,9	32,7	2.885	330	539	0,228	0,0754	34,1
7375121	1x300	29,3	36,3	3.645	365	619	0,198	0,0601	42,6
7375122	1x400	34,1	41,3	4.750	415	741	0,173	0,0470	56,8

SEGURFOC - LAV CLASS2F



ARMOURED CABLE SEGURFOC LAV CLASS2F

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERAL DIAMETER mm	NOMINAL WEIGHT kg/km	BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
7375206	2x1,5	8,3	12,7	320	130	26	21,497	12,1000	
7375207	2x2,5	9,6	14,2	395	145	36	13,204	7,4100	0,21
7375208	2x4	10,6	15,2	460	155	50	8,249	4,6100	0,36
7375209	2x6	11,7	16,3	545	165	63	5,540	3,0800	0,57
7375210	2x10	13,6	18,4	715	185	87	3,325	1,8300	0,85
7375211	2x16	15,6	21,1	1.020	215	116	2,118	1,1500	1,42
7375212	2x25	18,9	24,6	1.395	250	135	1,370	0,7270	2,27
7375213	2x35	21,5	28,1	1.925	285	169	1,008	0,5240	3,55
7375214	2x50	19,9	26,7	1.935	270	207	0,764	0,3870	4,97
7375215	2x70	23,1	30,1	2.500	305	268	0,560	0,2680	7,10
7375216	2x95	25,8	33,8	3.275	340	326	0,442	0,1930	9,90
7375217	2x120	28,8	37,0	3.970	370	383	0,362	0,1530	13,5
7375218	2x150	31,7	40,1	4.715	405	444	0,305	0,1240	17,0
7375219	2x185	34,8	44,6	5.930	450	510	0,265	0,0991	21,3
7375220	2x240	39,5	49,5	7.415	495	607	0,218	0,0754	26,3
7375221	2x300	45,3	55,5	9.055	555	702	0,188	0,0601	34,1
7375222	2x400	51,8	62,1	11.305	621	847	0,160	0,0486	42,6

Installation Methods for current ratings in accordance with IEC 60364.

Minimum recommended installation Temperature: -5°

SEGURFOC LAV CLASS2F

RZ1F3Z1- K MICA

ARMoured CABLE SEGURFOC LAV CLASS2F

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERAL DIAMETER mm	NOMINAL WEIGHT kg/km	BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
7375306	3x1,5	8,9	13,3	350	135	22	21,497	12,1000	0,21
7375307	3x2,5	10,2	14,8	435	150	29	13,204	7,4100	0,36
7375308	3x4	11,3	15,9	520	160	40	8,249	4,6100	0,57
7375309	3x6	12,5	17,1	625	175	51	5,540	3,0800	0,85
7375310	3x10	14,6	20,1	935	205	72	3,325	1,8300	1,42
7375311	3x16	16,7	22,4	1.215	225	96	2,118	1,1500	2,27
7375312	3x25	20,7	27,3	1.860	275	121	1,370	0,7270	3,55
7375313	3x35	23,1	29,9	2.315	300	151	1,008	0,5240	4,97
7376314	3x50	24,9	31,7	2.670	320	184	0,764	0,3870	7,10
7376315	3x70	29,1	36,1	3.510	365	235	0,560	0,2680	9,90
7376316	3x95	32,2	40,4	4.595	405	285	0,442	0,1930	13,50
7376317	3x120	36	44,4	5.590	445	331	0,362	0,1530	17,00
7376318	3x150	40,1	49,7	7.130	500	388	0,305	0,1240	21,30
7376319	3x185	43,6	53,4	8.285	535	430	0,265	0,0991	26,30
7376320	3x240	49,7	59,9	10.525	600	515	0,218	0,0754	34,10
7376321	3x300	56,6	67,0	12.880	670	592	0,188	0,0601	42,60
7376322	3x400	65,1	75,9	16.230	759	710	0,160	0,0470	56,80

ARMoured CABLE SEGURFOC LAV CLASS2F

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERAL DIAMETER mm	NOMINAL WEIGHT kg/km	BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
7375406	4x1,5	9,7	14,1	390	145	22	21,497	12,1000	0,21
7375407	4x2,5	11,2	15,8	495	160	29	13,204	7,4100	0,36
7375408	4x4	12,5	17,1	595	175	40	8,249	4,6100	0,57
7375409	4x6	13,8	19,3	830	195	51	5,540	3,0800	0,85
7375410	4x10	16,1	21,6	1.100	220	72	3,325	1,8300	1,42
7375411	4x16	18,6	24,3	1.440	245	96	2,118	1,1500	2,27
7375412	4x25	23	29,6	2.215	300	121	1,370	0,7270	3,55
7375413	4x35	25,6	32,4	2.795	325	151	1,008	0,5240	4,97
7376414	4x50	28,2	35,2	3.340	355	184	0,764	0,3870	7,10
7376415	4x70	33,2	41,4	4.750	415	235	0,560	0,2680	9,90
7376416	4x95	36,5	44,9	5.805	450	285	0,442	0,1930	13,50
7376417	4x120	41,3	50,9	7.550	510	331	0,362	0,1530	17,00
7376418	4x150	45,5	55,3	9.020	555	388	0,305	0,1240	21,30
7376419	4x185	49,4	59,6	10.575	600	430	0,265	0,0991	26,30
7376420	4x240	56,9	67,3	13.540	675	515	0,218	0,0754	34,10
7376421	4x300	64,4	75,2	16.540	755	592	0,188	0,0601	42,60
7376422	4x400	73,8	86,5	22.615	865	710	0,160	0,0470	56,80

SEGURFOC CLASS2F

RZ1F3Z1- K MICA



SEGURFOC - LAV CLASS2F

Flexible core

Mica Tape

XLPE Insulation

Fireproof Polyolefin Bedding

Tin Plated Galvanised steel corrugated tape armour

Fireproof polyolefin sheath

Annealed Copper Conductor

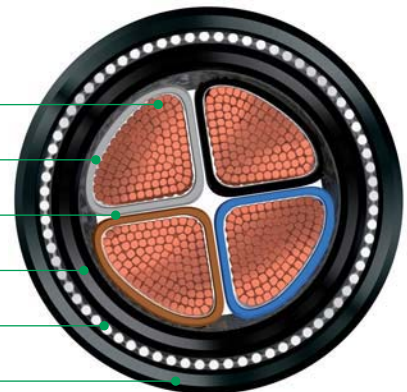
Mica Glass Taped








XLPE Insulation

LSF Bedded

Single Wire Armour

LSF Sheathed



AVAILABLE COLOURS	x2	x3	x4	x5
WITH EARTH CONDUCTOR				
WITHOUT EARTH CONDUCTOR				

Other colours available upon request.

Fire Resistant Cables

SEGURFOC FRA950

RZ1MZ1-M

Description

Annealed Copper Conductors*, Mica Glass Taped, XLPE (Cross-Linked Polyethylene) Insulated, LSF (Low Smoke and Fume) Bedded, Wire Armour**, LSF (Low Smoke and Fume) Sheated Black. 600/1000 volt rated, in accordance with BS 7846. 1996. BS 6387 Cat CWZ.

*Up to and incl. 35mm² - Circular, 50 mm² and above - Sector Shaped.

**Single Core: Aluminium Wire Armour. Multicore: Galvanised Steel Wire Armour.



Standards

- Fire resistant
- Rated working voltage: 0,6/1kV
- Working temperature (fixed installation): +90°C

Fire behaviour tests

- Non flame propagating BS-EN 60332-1-2 and IEC 60332-1
- Non fire-propagating per BS-EN 50266-2-4 and IEC 60332-3-24
- Corrosivity and acid gas emission BS-EN 50267-2-1, BS-EN 50267-2-2, IEC 60754.1 and IEC 60754-2 pH₂≥4,3 and conductivity ≤10μS/mm, <0,5% acid gas
- Smoke emission BS-EN 61034-2 and IEC 61034
- Fire resistance IEC 60331-21, IEC 60331-31, BS-EN 50200, BS-EN 50362 and BS 6387 CWZ

Constructional specification BS 7846

- Conductor per BS 6360 and IEC 60228 (Plain annealed copper stranded class 2)
- Mica Tape
- Insulation - Type GP8 BS 7655-1.3
- Bedding - Extruded LSOH material
- Armour - Aluminium wire armour (1 core) / Steel wire armour (Multicore)
- Sheath - LTS1 - BS 7655-6.1
- Core colour identification BS 7671

APPROVED BY:



NON FLAME PROPAGATION
BS-EN 60332-1-2
IEC 60332-1



NON FIRE PROPAGATION
BS-EN 50266
IEC 60332-3



FIRE RESISTANT
BS-EN 50200 PH 90
IEC 60331
BS 6387
CATEGORY CWZ



LOW SMOKE EMISSION
BS-EN 61034-2
IEC 61034



LOW TOXIC SMOKE EMISSION
RATP K20



HALOGEN-FREE
BS-EN 50267
IEC 60754



MECHANICAL PROTECTION AGAINST RODENTS

Technical Specifications

SEGURFOC FRA950

RZ1MZ1-M

ARMoured CABLE SEGURFOC FRA 950 / FRA-1 950

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERAL DIAMETER mm	NOMINAL WEIGHT kg/km	BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
7367114	1x50	12,3	18,5	760	185	193	0,804	0,3870	7,10
7367115	1x70	14,0	20,2	990	205	246	0,587	0,2680	9,90
7367116	1x95	15,8	22,2	1.280	225	298	0,448	0,1930	13,50
7367117	1x120	17,6	24,0	1.545	240	345	0,374	0,1530	17,00
7367118	1x150	19,8	26,4	1.840	265	399	0,323	0,1240	21,30
7367119	1x185	21,6	28,4	2.250	285	457	0,276	0,0991	26,30
7367120	1x240	24,5	31,3	2.840	315	539	0,232	0,0754	34,10
7367121	1x300	27,1	34,1	3.475	345	619	0,202	0,0601	42,60
7367122	1x400	30,6	37,8	4.475	380	741	0,178	0,0470	56,80

SEGURFOC FRA950



ARMoured CABLE SEGURFOC FRA 950 / FRA-1 950

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERAL DIAMETER mm	NOMINAL WEIGHT kg/km	BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
7367206	2x1,5	8,6	13,2	340	135	26	21,505	12,1000	0,21
7367207	2x2,5	9,4	14,0	385	140	36	13,210	7,4100	0,36
7367208	2x4	10,3	14,9	450	150	50	8,255	4,6100	0,57
7367209	2x6	11,5	16,1	535	165	63	5,545	3,0800	0,85
7367210	2x10	13,2	18,0	665	180	87	3,330	1,8300	1,42
7367211	2x16	15,0	20,5	950	205	116	2,124	1,1500	2,27
7367212	2x25	18,0	23,7	1.290	240	135	1,376	0,7270	3,55
7367213	2x35	20,9	27,5	1.815	275	169	1,013	0,5240	4,97
7368214	2x50	19,4	26,2	1.825	265	207	0,773	0,3870	7,10
7368215	2x70	22,1	29,1	2.350	295	268	0,560	0,2680	9,90
7368216	2x95	25,2	33,2	3.220	335	326	0,423	0,1930	13,50
7368217	2x120	27,9	36,1	3.855	365	383	0,351	0,1530	17,00
7368218	2x150	30,7	39,1	4.560	395	444	0,300	0,1240	21,30
7368219	2x185	33,8	43,6	5.800	440	510	0,256	0,0991	26,30
7368220	2x240	37,7	47,7	7.335	480	607	0,212	0,0754	34,10
7368221	2x300	41,9	52,1	8.925	525	702	0,184	0,0601	42,60
7368222	2x400	46,7	57,3	11.060	575	847	0,160	0,0470	56,80

Installation Methods for current ratings in accordance with BS 7671 / IEE wirings Regulations.

Minimum recommended installation Temperature: -5°

SEGURFOC FRA950

RZ1MZ1-M

ARMOURED CABLE SEGURFOC FRA 950 / FRA-1 950

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERAL DIAMETER mm	NOMINAL WEIGHT kg/km	BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
7367306	3x1,5	9,2	13,6	365	140	22	21,505	12,1000	0,21
7367307	3x2,5	10,0	14,6	425	150	29	13,210	7,4100	0,36
7367308	3x4	11,0	15,6	510	160	40	8,255	4,6100	0,57
7367309	3x6	12,3	16,9	610	170	51	5,545	3,0800	0,85
7367310	3x10	14,2	19,7	875	200	72	3,330	1,8300	1,42
7367311	3x16	16,1	21,8	1.125	220	96	2,124	1,1500	2,27
7367312	3x25	19,7	26,3	1.725	265	121	1,376	0,7270	3,55
7367313	3x35	22,4	29,2	2.195	295	151	1,013	0,5240	4,97
7368314	3x50	23,8	30,6	2.495	310	184	0,773	0,3870	7,10
7368315	3x70	27,3	34,3	3.285	345	235	0,560	0,2680	9,90
7368316	3x95	31,0	39,2	4.455	395	285	0,423	0,1930	13,50
7368317	3x120	34,4	42,8	5.380	430	331	0,351	0,1530	17,00
7368318	3x150	38,3	47,9	6.845	480	388	0,300	0,1240	21,30
7368319	3x185	41,8	51,6	8.140	520	430	0,256	0,0991	26,30
7368320	3x240	46,6	56,8	10.305	570	515	0,212	0,0754	34,10
7368321	3x300	51,9	62,3	12.595	625	592	0,184	0,0601	42,60
7368322	3x400	57,9	68,7	15.765	690	710	0,160	0,0470	56,80

ARMOURED CABLE SEGURFOC FRA 950 / FRA-1 950

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERAL DIAMETER mm	NOMINAL WEIGHT kg/km	BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
7367406	4x1,5	10,1	14,5	410	145	22	21,505	12,1000	0,21
7367407	4x2,5	11,0	15,6	490	160	29	13,210	7,4100	0,36
7367408	4x4	12,2	16,8	585	170	40	8,255	4,6100	0,57
7367409	4x6	13,6	19,1	825	195	51	5,545	3,0800	0,85
7367410	4x10	15,7	21,2	1.030	215	72	3,330	1,8300	1,42
7367411	4x16	17,8	23,5	1.345	235	96	2,124	1,1500	2,27
7367412	4x25	21,9	28,5	2.085	285	121	1,376	0,7270	3,55
7367413	4x35	24,9	31,7	2.635	320	151	1,013	0,5240	4,97
7368414	4x50	27,0	34,0	3.160	340	184	0,773	0,3870	7,10
7368415	4x70	31,2	39,4	4.445	395	235	0,560	0,2680	9,90
7368416	4x95	35,3	43,7	5.680	440	285	0,423	0,1930	13,50
7368417	4x120	38,4	48,0	7.220	480	331	0,351	0,1530	17,00
7368418	4x150	43,6	53,4	8.765	535	388	0,300	0,1240	21,30
7368419	4x185	47,5	57,4	10.405	575	430	0,256	0,0991	26,30
7368420	4x240	53,5	64,1	13.310	645	515	0,212	0,0754	34,10
7368421	4x300	59,2	69,8	16.220	700	592	0,184	0,0601	42,60
7368422	4x400	66,7	79,2	21.425	710	710	0,160	0,0470	56,80

SEGURFOC FRA950

RZ1MZ1-M

Annealed Copper Conductor

Mica Glass Taped

XLPE Insulation

LSF Bedded

Single Wire Armour

LSF Sheathed



Annealed Copper Conductor

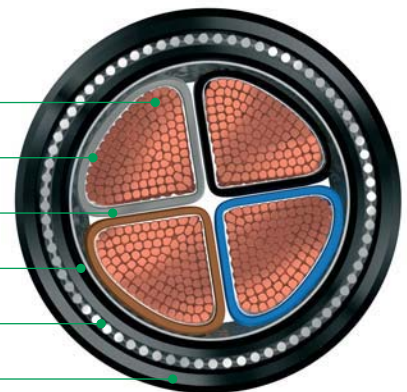
Mica Glass Taped

XLPE Insulation

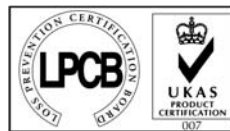
LSF Bedded

Single Wire Armour

LSF Sheathed



APPROVED BY:



SEGURFOC FRA950

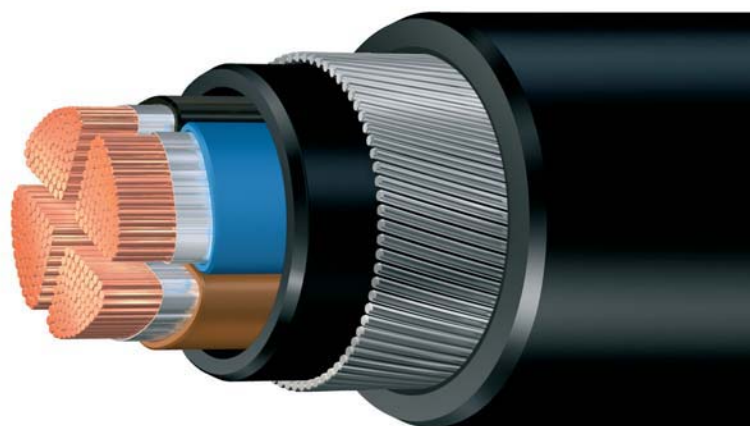
AVAILABLE COLOURS	x2	x3	x4	x5
WITH EARTH CONDUCTOR				
WITHOUT EARTH CONDUCTOR				

Other colours available upon request.

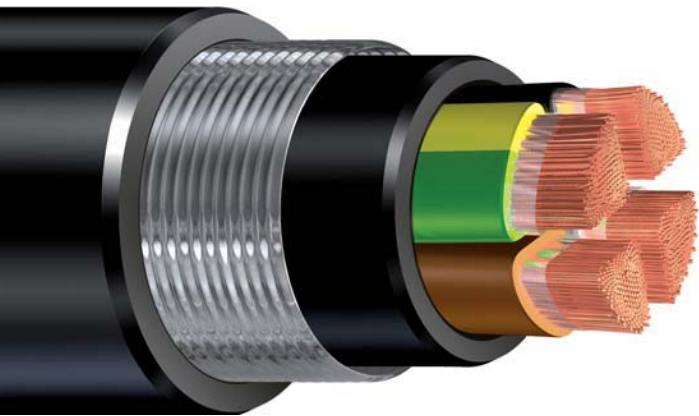
SEGURFOC - LAV CLASS2F

V

SEGURFOC
FRA950
RZ1MZ1-M



- Flexible Class 2 Conductor
- Extra handleability
- Savings installation time
- Stress reduction during cable installation



SEGURFOC
LAV CLASS2F
RZ1F3Z1-MICA

S

SEGURFOC FRA950

- Longer life expectancy
- Higher flexibility than wire armour cables
- Water tightness
- Use of standard accessories for flexible cables

Fire Resistant Cables

SEGURFOC FR950

07Z-R-M

Description

Plain Stranded Copper Conductor, Mica Glass Taped, LSF Insulated. 450/750 volt rated.

Specification

Conductor sizes up to and including 630mm²

Fire Resistance:

- Resistance to Fire Alone: BS 6387 Category C: 950° for 3 hours and IEC 60331 750° for 3 hours.
- Resistance to Fire with Water Deluge: BS 6387 Category W: 15 mins at 650° plus 15 mins with flame and water spray.
- Resistance to Fire with Mechanical Shock: BS 6387 Category Z: 950°C with mechanical shock every 30 seconds for 15 minutes.
- Resistance to Fire with Mechanical Shock: BS-EN 50200 and BS-EN 50362: 842°C with mechanical shock every 5 minutes for 90 minutes.

Smoke emission:

- Complies with the Low Smoke Emission requirements given in BS 7211, when tested in accordance with BS-EN 61034-2, IEC 61034-2.

Acid Gas emission:

- Corrosivity and acid gas emission BS-EN 50267-2-1, BS-EN 50267-2-2, IEC 60754.1 and IEC 60754-2 pH \geq 4,3 and conductivity \leq 10 μ S/mm, <0,5% acid gas

Flame Propagation:

- Complies with the requirements of BS-EN 60332-1, IEC 60332-1.

Approvals:

- All sizes up to and including 500 mm² are certified by LPCB in accordance with BS 6387 Cat CWZ for use as a fire resistant wiring system when installed in a steel conduit. Cables are certified by LPCB in accordance with BS 6387 Cat CWZ.

Standards

- Fire resistant
- Rated working voltage: 450/750 volt
- Working temperature (fixed installation): +90°C

Fire behaviour tests

- Non flame propagating BS-EN 60332-1-2 and IEC 60332-1
- Non fire-propagating per BS-EN 50266-2 and IEC 60332-3

SEGURFOC FR950

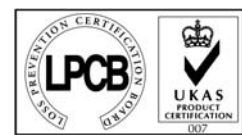
07Z-R-M

- Corrosivity and acid gas emission BS-EN 50267-2-1, BS-EN 50267-2-2, IEC 60754.1 and IEC 60754-2 $\text{pH} \geq 4,3$ and conductivity $\leq 10 \mu\text{S}/\text{mm}$, $< 0,5\%$ acid gas
- Smoke emission BS-EN 61034-2 and IEC 61034-2
- Fire resistance IEC 60331-21, IEC 60331-31, BS-EN 50200, BS-EN 50362 and BS 6387 CWZ

Constructional specification BS 7211

- Conductor BS 6360 and IEC 60228 (Plain annealed copper stranded class 2)
- Mica Tape
- Insulation - GP8 per BS 7655

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NON FLAME
PROPAGATION
BS-EN 60332-1-2
IEC 60332-1



NON FIRE
PROPAGATION
BS-EN 50266
IEC 60332-3



FIRE RESISTANT
BS-EN 50200 PH90
IEC 60331
BS 6387
CATEGORY CWZ



LOW SMOKE
EMISSION
BS-EN 61034-2
IEC 61034



LOW TOXIC SMOKE
EMISSION
RATP K20



HALOGEN-FREE
BS-EN 50267
IEC 60754



Technical Specifications

SEGURFOC FR950

07Z-R-M

CONDUIT CABLE SEGURFOC FR 950

GENERAL CABLE CODE	CROSS SECTION mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MINIMUM BENDING RADIUS mm	MAXIMUM CURRENT RATING AIR 30°C A	VOLTAGE DROP Cos phi=0,8 A/V.km	MAX. DC RESISTANCE 20°C Ohms/km	SHORT CIRCUIT RATING (1 sec.) kA
1811106	1x1,5	3,5	30	25	27	21,5	12,1	0,21
1811107	1x2,5	4,1	40	25	36	13,2	7,41	0,36
1811108	1x4	4,6	55	30	49	8,25	4,61	0,57
1811109	1x6	5,2	75	35	62	5,54	3,08	0,85
1811110	1x10	6,4	120	40	85	3,33	1,83	1,42
1811111	1x16	7,1	175	45	110	2,12	1,15	2,27
1811112	1x25	8,8	270	55	146	1,38	0,727	3,55
1811113	1x35	9,9	365	60	180	1,01	0,524	4,97
1811114	1x50	11,5	500	70	219	0,77	0,387	7,10
1811115	1x70	12,9	690	80	279	0,56	0,268	9,94
1811116	1x95	15	950	90	338	0,42	0,193	12,78
1811117	1x120	16,6	1.185	100	392	0,35	0,153	17,04
1811118	1x150	18,4	1.445	110	451	0,30	0,124	21,30
1811119	1x185	20,4	1.815	125	515	0,25	0,0991	26,27
1811120	1x240	23,1	2.375	140	607	0,21	0,0754	34,08
1811121	1x300	25,7	2.975	155	698	0,18	0,0601	42,60
1811122	1x400	28,7	3.785	175	787	0,16	0,0470	56,80
1811123	1x500	32,7	4.835	200	902	0,14	0,0366	71,00
1811124	1x630	36,1	6.200	220	1.038	0,12	0,0283	89,46

*Cables installed clipped direct in accordance with reference method 1 of BS 7671 / IEE Wiring Regulations



SEGURFOC FR950

07Z-R-M



Stranded Copper Conductor

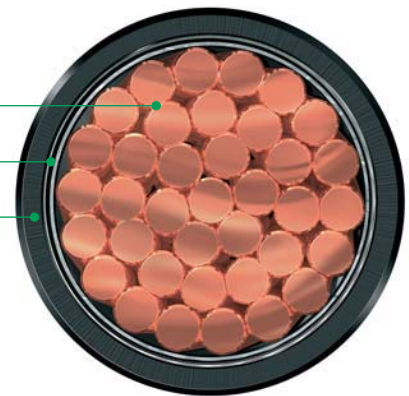
Mica Glass Taped

LSF Insulation

Stranded Copper Conductor

Mica Glass Taped

LSF Insulation



APPROVED BY:



Fire Resistant Cables

SEGURFOC FR SPEED PULL

07Z-R-M

Specification

Fire Performance under fire conditions

- Resistance to Fire Alone: BS 6387 Category C: 950° for 3 hours and IEC 60331 750° for 3 hours
- Resistance to Fire with Water Deluge: BS 6387 Category W: 15 mins at 650° plus 15 mins with flame and water spray
- Resistance to Fire with Mechanical Shock: BS 6387 Category Z: 950°C with mechanical shock for 15 minutes
- Resistance to Fire with Mechanical Shock: BS-EN 50200 and BS-EN 50362: 842°C with mechanical shock every 5 minutes for 90 minutes.

Smoke emission

- Based on BS 7211 Cable fully comply with the specification requirements
- BS-EN 61034-2 and IEC 61034-2

Acid Gas emission during combustion

- Corrosivity and acid gas emission BS-EN 50267-2-1, BS-EN 50267-2-2, IEC 60754.1 and IEC 60754-2 $\text{pH} \geq 4,3$ and conductivity $\leq 10 \mu\text{S}/\text{mm}$, $< 0,5\%$ acid gas

APPROVED BY:



SEGURFOC FR

SPEED PULL

07Z-R-M

Flame Propagation

- BS-EN 60332 and IEC 60332-1
- BS-EN 50266-2-4 and IEC 60332-3-24

Maximum Continuous Operating Temperature

- 90°

Quality Management

- BS 5750 / ISO 9000

Approvals

- LPCB approved to BS 6387 Cat CWZ



NO FLAME
PROPAGATION
BS-EN 60332-1-2
IEC 60332-1



NON FIRE
PROPAGATION
BS-EN 50266
IEC 60332-3



FIRE RESISTANT
BS-EN 50200 PH90
IEC 60331
BS 6387
CATEGORY CWZ



LOW SMOKE
EMISSION
BS-EN 61034-2
IEC 61034



LOW TOXIC SMOKE
EMISSION
RATP K20



HALOGEN-FREE
BS-EN 50267
IEC 60754



SEGURFOC FR SPEED PULL

07Z-R-M

Standards

- Conduit cable
- Twisted pair Blue/Brown
- Rated working voltage: 450/750V
- Working temperature (fixed installation): 90°C
- Constructional specification: BS 7211
- Available in 2x1.5 sqmm and 2x2.5 sqmm, other sizes available on request

Advantages

- Quick and easy installation
- Added value for the end user
- Cost reduction in CAPEX.





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ISO 14001

AENOR

AENOR

Gestión Ambiental

CDM-077028

CDM-077027

CDM-077045

ISO 9001

AENOR

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