

AFUMEX® SILVER | 0.6/1 kV | CLASS 2
FIRESTOP FS110 STRANDED CONDUCTOR ALARM CABLE

Cable description

Fire rated fire alarm circuit LSOH cable suitable for installation wiring.

Application

- Power supply cable to fire alarms.
- Classified (WS52W) meaning the scope of testing is designed to confirm performance when installed in a wiring system.
- Circuit integrity up to an extreme temperature of 1050 °C at the end of 2 hours.
- LSZH – Suitable for confined and high people density areas such as underground transport tunnels, airports and public buildings.

Approvals/Qualifications

NATA accredited facility Qualification (third party)
AS/NZS 5000.1.
AS/NZS 3013 WS52W

Behaviour in flame and fire

Fire performance rating: AS/NZS 3013 WS52W
AS/NZS 4507 CI-3

Flame propagation: IEC 60332-3 cat A
IEC 60332-1

Halogen free/Low smoke emission:
AS/NZS 4507

Temperature range

Maximum operating temperature: +110 °C
Minimum operating temperature: -25 °C

Flexibility

Minimum bending radius:
Installed cables: 10D
During installation: 12D

Resistance to

Fire: 2 hrs
Chemical exposure: Occasional
Mechanical impact: Moderate
Water exposure: Spray
Solar radiation and weather exposure: UV stabilised

Cable design

Conductor: Stranded plain annealed copper (class 2)
Fire barrier: Mica glass tape
Insulation: X-HF-110 (LSOH)
Colour: 2 cores: Red, white
Sheath: Red, HFS-110-TP (LSOH)

Installation conditions

In free air
In duct
Internal wiring
External building

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Physical & electrical characteristics

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Product code	Number of cores	Nominal conductor area mm ²	Approx. overall diameter mm	Approx. mass kg/100 m	AS/NZS 3013 WS Rating
1.52CFS110RD	2C	1.5	12.5	19	WS52W

CLASS 2 | FS110 MULTICORE

Size	Resistance		Reactance at 50Hz (ohm/km)	Voltage drop (mV/A.m)	
	DC @ 20°C	AC @ 110°C		Three phase	Single phase
10	1.83	2.48	0.0840	4.29	4.95
16	1.15	1.56	0.0805	2.70	3.12
25	0.727	0.984	0.0808	1.71	1.97
35	0.524	0.710	0.0786	1.24	1.43
50	0.387	0.524	0.0751	0.92	1.06
70	0.268	0.364	0.0741	0.645	0.745
95	0.193	0.262	0.0725	0.475	0.548
120	0.153	0.209	0.0713	0.385	0.445
150	0.124	0.170	0.0718	0.322	0.372
185	0.0991	0.136	0.0720	0.271	0.313
240	0.0754	0.105	0.0709	0.224	0.259
300	0.0601	0.0852	0.0704	0.196	0.226

Physical & electrical characteristics

CURRENT CARRYING CAPACITY* CLASS 2 FS110 MULTICORE				
Nominal conductor area mm ²	Unenclosed		Enclosed	
	Spaced A	Touching surface A	Metallic wiring enclosure in air A	Underground duct one duct A
TWO CORE				
10	95	89	76	85
16	126	118	102	111
25	168	158	133	144
35	206	194	166	175
50	251	236	200	208
70	317	298	256	260
95	392	367	312	313
120	455	426	368	363
150	519	486	417	409
185	598	559	486	468
240	708	662	588	554
300	815	760	670	626
THREE & FOUR CORE				
10	81	76	64	71
16	107	101	86	93
25	144	135	116	122
35	177	166	140	146
50	216	202	174	177
70	272	255	217	217
95	337	314	270	267
120	391	364	311	304
150	447	416	360	346
185	515	479	411	391
240	611	567	498	463
300	701	650	-	522

* Based on 110°C conductor temperature, 40°C ambient air temperature and where applicable, burial depth of 0.5 m, soil temperature of 25°C and soil thermal resistivity of 1.2°C.m/W. Refer to AS/NZS 3008.1.1:2017 for other installation conditions.