

FIRENIX PH 120 Standard

LPCB 568c/04(d-2)

BS 7629-1:2008

Multi-Core, Solid CU, Silicon Rubber-Insulation, Collective Screen, LSZH-Sheath



CONSTRUCTION

Formation:

Plain annealed copper wire, solid

Insulation:

Special mix silicon rubber

Wrapping:

at least 1 layer of plastic tape 0,023 mm

Collective Screen:

0,026 mm Aluminium / PETP tape over tinned copper drain wire

Outer Sheath:

Thermoplastic Low Smoke, Halogen Free

Colour Outer Sheath:

Red or White

STANDARD REFERENCES

- BS 7629-1:2008
- BS 6387:2013 (CWZ)
- EN 50200:2006 (Class PH30/PH120)
- EN 50200:2006 Annex E (30 mins)
- BS 5839-1:2013 (Clause 26.2d Standard)
- BS EN 50268-2
- BS EN 50267-2-1
- BS EN 60032-1-2
- BS EN 60332-3-24
- BS EN 61034-2
- BS 8519-1
- BS 7655 1.1
- BS 7655 6.1
- BS EN 60228

IDENTIFICATION OF CORES

2 cores: ● ●

3 cores: ● ● ●

4 cores: ● ● ● ●

up/from 5 cores: Black Numbered

TEMPERATURE RANGE

During Operation:

-30° C up to +180°C

During Installation:

-5° C up to +50°C



CABLE PRINTING

FIRENIX PH 120 Standard - FIRE RESISTANT ELECTRIC CABLE – LSZH - 300/500V - BS 7629-1:2008 - BS EN50200 PH30/120 - BS 6387 CWZ - 2x1,5 mmq + E - LPCB 568c/02 - MADE IN ITALY - BATCH N°

ELECTRICAL DATA

Insulation Resistance @ 20°C:

> 200 MOhm*Km

Test Voltage Core-Core:

2000 V

Test Voltage Core-Screen:

2000 V

Mutual Capacitance:

< 150 nF/km

Inductance:

< 1 mH/km

Operating Voltage:

300/500 V

CHARACTERISTICS

Fire Resistant



Min. Bending Radius
8 x cable diameter



Low Smoke Halogen Free



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Cable Code	Nominal Cross Sectional Area	Conductor Construction	Overall Diameter	Approx. Cable Weight	Max Conductor Resistance @ 20° C	Current rating DC or single phase AC Enclosed	Current rating DC or single phase AC Clipped Direct	Volt drop DC or single phase AC
	mm ²	no/mm	mm	Kg/Km	Ohm/Km	Amps	Amps	mV/A/m
TWO CORE								
SAR0211HFESL-F3PH120	1.0	1/1.13	6.4*	66	18.1	17	19	45
SAR0214HFESL-F3PH120	1.5	1/1.38	7.3*	88	12.1	22	24	30
SAR0218HFESL-F3PH120	2.5	1/1.78	8.6*	129	7.41	30	33	18
THREE CORE								
SAR0311HFESP-F3PH120	1.0	1/1.13	6.5*	83	18.1	15	17	39
SAR0314HFESP-F3PH120	1.5	1/1.38	7.4*	111	12.1	19.5	22	26
SAR0318HFESP-F3PH120	2.5	1/1.78	8.7*	166	7.41	26	30	15
FOUR CORE								
SAR0411HFESQ-F3PH120	1.0	1/1.13	7.1*	101	18.1	15	17	39
SAR0414HFESQ-F3PH120	1.5	1/1.38	8.1*	137	12.1	19.5	22	26
SAR0418HFESQ-F3PH120	2.5	1/1.78	9.6*	205	7.41	26	30	15

* Cables certified by LPCB BRE GLOBAL

* If the cables are with a WHITE outer sheath the FIRENIX CODE will change as: SAR__HCESL-F3PH120

* The tabulated ratings are based upon an ambient temperature of 30° C and an operating temperature of 70° C

Temperature Rating Factor

AMBIENT TEMPERATURE	25	30	35	40	45	50	55	60	65
RATING FACTOR	1.04	1.00	0.95	0.90	0.85	0.80	0.74	0.67	0.60

Rating Factors for Grouping

NUMBER OF CIRCUITS	2	3	4	5	6	7	8	10	12	14	16	18	20
RATING FACTOR	0.80	0.70	0.65	0.60	0.57	0.55	0.52	0.48	0.45	0.43	0.41	0.39	0.38

* Minimum recommended installation temperature 0°C. Installation methods for current rating in accordance with BS 7671

* Recommended clip spacing 300 mm horizontal and 400 mm vertical using only metallic fixings