

IGNIS 230 • ENHANCED

FIRE SURVIVAL MULTICORE ARMoured CABLE

0.6/1 kV AC

MICA GLASS + SILICONE RUBBER

2-37 CORES • 1.5-400 SQMM

GALVANIZED STEEL WIRE ARMOUR

LSZH INNER & OUTER SHEATH

BS 7846:2016



Images not to scale, Follow table for dimensions

APPLICATION

INDOCABLES FS E Multicore armoured cable is suitable to use in various indoor and outdoor applications where continuity of power supply during the event of fire, is highly essential and corrosive gas evaluation could be a cause of hazard to the people or the precision instruments in high rise building, schools, hospitals, hotels, malls, subways etc.

CONSTRUCTION

1. Annealed plain stranded copper conductor as per IEC 60228, Class-2.
2. Mica Glass flame barrier tape.
3. Extruded Silicone Rubber insulation.
4. Insulated Cores assembled together.
5. Extruded LSZH Inner sheath.
6. Galvanized Steel wire armoured.
7. Extruded LSZH outer sheath.

COLOURS Black, (Other colours available on request)

CORE IDENTIFICATION

2 cores: Brown, Blue;
 3 cores: Brown, black, grey;
 4 cores: Blue, Brown, black, grey;
 5 cores: Green and yellow, Blue, Brown, black, grey;
 Above 5 cores can be supplied with number printing
 (All cores: optional number printing)

CHARACTERISTICS

Voltage Rating	0.6/1KV
Operation Temperature	-40°C to +150°C
Short Circuit temperature	350°C
Bending radius	Min. 12 × Overall Diameter
Test Voltage	3500 V AC at (20±5) °C

OUTSTANDING FEATURES

HIGH RESISTANT TO FIRE
REDUCED FLAME PROPAGATION
HIGHER CURRENT RATING
CIRCUIT INTEGRITY WHEN EXPOSED TO FIRE
LOW TOXICITY
FIRE BARRIER

STANDARD FOLLOWS

EN 60228.2005

BS 7846:2016

COMPLIANCE

Fire resistance BS 7846-F2 / BS 6387 CWZ / BS EN 50200 (PH 60) / BS 8434 / BS 8491

Flame propagation EN 60332-1-2

Fire retardant EN 60332-3-24 (Cat.C)

Halogen free material EN 60754-1

Smoke density EN 61034-2



MADE IN INDIA
 Manufactured in India NES 02-713

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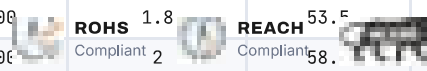
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PRODUCT CODES AND DIMENSIONS
CODE STRUCTURE — ONLY THE TWO ORANGE SEGMENTS CHANGE DOWN THE TABLE

IC	FS	NN	SSSSS	CU	SIR	FS2XWH	0660	BS7846	ZHFR
REGISTER	LINE	CORES	SIZE x100	CONDUCTOR	INSULATION	DESIGNATION	VOLTAGE GRADE	STANDARD	OPTION

2 CORE AND 3 CORE

IC-FS-...-CU-SIR-FS2XWH-0660-BS7846-ZHFR	—	—	mm ²	mm	mm	mm	kg / km
IC-FS-02-00150-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006508	2	1.5	0.6	10.9	13.5	345
IC-FS-02-00250-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006509	2	2.5	0.7	12.1	14.9	415
IC-FS-02-00400-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006510	2	4	0.7	13.2	16	475
IC-FS-02-00600-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006511	2	6	0.7	14.3	17.2	550
IC-FS-02-01000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006512	2	10	0.7	16.2	19.2	700
IC-FS-02-01600-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006513	2	16	0.7	19	22	1010
IC-FS-02-02500-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006514	2	25	0.9	22.4	25.7	1345
IC-FS-02-03500-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006515	2	35	0.9	25.8	28.5	1790
IC-FS-02-05000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006516	2	50	1	24	26.5	2245
IC-FS-02-07000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006517	2	70	1.1	26.8	30	2795
IC-FS-02-09500-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006518	2	95	1.1	30.4	34	3770
IC-FS-02-12000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006519	2	120	1.2	32.1	37	4455
IC-FS-02-15000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006520	2	150	1.4	35.1	40	5290
IC-FS-02-18500-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006521	2	185	1.6	39.7	46	6815
IC-FS-02-24000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006522	2	240	1.7	43.3	50	8225
IC-FS-02-30000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006523	2	300	1.8	47.4	55	9790
IC-FS-02-40000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006524 [†]	2	400	2	51.7	60	12250
IC-FS-03-00150-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006525	3	1.5	0.6	11.5	14.1	390
IC-FS-03-00250-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006526	3	2.5	0.7	12.8	15.6	480
IC-FS-03-00400-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006527	3	4	0.7	14	16.8	560
IC-FS-03-00600-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006528	3	6	0.7	15.2	18	660
IC-FS-03-01000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006529	3	10	0.7	17.9	20.9	980
IC-FS-03-01600-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006530	3	16	0.7	20.2	23.4	1255
IC-FS-03-02500-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006531	3	25	0.9	25	28.4	1910
IC-FS-03-03500-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006532	3	35	0.9	27.5	31	2330
IC-FS-03-05000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006533	3	50	1	26.2	32.5	2835
IC-FS-03-07000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006534	3	70	1.1	29.3	36.5	3600
IC-FS-03-09500-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006535	3	95	1.1	33.3	41.5	4885
IC-FS-03-12000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006536	3	120	1.2	36	45	5825
IC-FS-03-15000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006537	3	150	1.4	40.5	50	7450
IC-FS-03-18500-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006538	3	185	1.6	44.6	55	8840
IC-FS-03-24000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006539	3	240	1.7	48.9	60.5	10860
IC-FS-03-30000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006540	3	300	1.8	53.5	66	13020
IC-FS-03-40000-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006541 [†]	3	400	2	58.1	73.3	16485


 Bureau of Indian Standards • CM/L-6200266003
 IC1006541[†]

MADE IN INDIA
 Manufactured in India

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PRODUCT CODES AND DIMENSIONS — CONTINUED

4 CORE AND 5 CORE

IC-FS-...-CU-SIR-FS2XWH-0660-BS7846-ZHFR	—	—	mm ²	mm	mm	mm	kg / km
IC-FS- 04-00150 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006542	4	1.5	0.6	12.5	15.1	445
IC-FS- 04-00250 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006543	4	2.5	0.7	14	16.7	545
IC-FS- 04-00400 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006544	4	4	0.7	15.3	18.1	650
IC-FS- 04-00600 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006545	4	6	0.7	17.3	20.3	900
IC-FS- 04-01000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006546	4	10	0.7	19.6	22.6	1155
IC-FS- 04-01600 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006547	4	16	0.7	22.1	25.3	1490
IC-FS- 04-02500 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006548	4	25	0.9	27.4	30.8	2280
IC-FS- 04-03500 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006549	4	35	0.9	30.2	33.7	2810
IC-FS- 04-05000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006550	4	50	1	30.6	35	3460
IC-FS- 04-07000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006551	4	70	1.1	35.7	40.5	4800
IC-FS- 04-09500 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006552	4	95	1.1	39.3	44.5	5995
IC-FS- 04-12000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006553	4	120	1.2	43.1	50	7685
IC-FS- 04-15000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006554	4	150	1.4	47.2	54.5	9225
IC-FS- 04-18500 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006555	4	185	1.6	51.6	59.5	10985
IC-FS- 04-24000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006556	4	240	1.7	57.1	66	13575
IC-FS- 04-30000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006557	4	300	1.8	62.3	71.5	16340
IC-FS- 04-40000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006558 [†]	4	400	2	70	82	21895
IC-FS- 05-00150 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006559 [†]	5	1.5	0.6	13.5	16.3	510
IC-FS- 05-00250 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006560 [†]	5	2.5	0.7	15.2	18.1	620
IC-FS- 05-00400 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006561 [†]	5	4	0.7	16.6	19.7	750
IC-FS- 05-00600 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006562 [†]	5	6	0.7	18.9	21.9	1040
IC-FS- 05-01000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006563 [†]	5	10	0.7	21.4	24.6	1350
IC-FS- 05-01600 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006564 [†]	5	16	0.7	25.3	28.7	1970
IC-FS- 05-02500 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006565 [†]	5	25	0.9	30	33.6	2690
IC-FS- 05-03500 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006566 [†]	5	35	0.9	33	36.9	3330
IC-FS- 05-05000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006567 [†]	5	50	1	39.1	43	4700
IC-FS- 05-07000 -CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006568 [†]	5	70	1.1	43.8	48.2	5910

The above data is approximate & subject to manufacturing tolerance.

FLAGGED — SOURCE VALUES REPRODUCED AS WRITTEN, CONFIRMATION REQUIRED

Diameter reversal at 50 mm². 2 core steps 25.8 → 24.0 mm over armour and 28.5 → 26.5 mm overall from 35 to 50 mm²; 3 core steps 27.5 → 26.2 mm over armour. Both fall as the conductor grows.

Standard vs. old code. The sheet declares BS 7846:2016, while the codes it carried named IS 17505 Part 1. The declared standard has been used.

No current-carrying capacity table. The source sheet claims “Higher current rating” under outstanding features but publishes no ampacity or de-rating data. Nothing has been added.

Application wording. “corrosive gas evaluation” reads as “evolution”. Left exactly as written.



EVERY CONNECTION MATTERS

PRODUCT DATASHEET

FS2XWH ZHFR • BS 7846:2016

FC-08

SHEET NO.

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PRODUCT CODES AND DIMENSIONS — CONTINUED

7 CORE TO 37 CORE

IC-FS-...-CU-SIR-FS2XWH-0660-BS7846-ZHFR	—	—	mm ²	mm	mm	mm	kg / km
IC-FS-07-00150-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006569	7	1.5	0.6	14.6	17.5	600
IC-FS-07-00250-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006570	7	2.5	0.7	16.5	19.3	740
IC-FS-07-00400-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006571 [†]	7	4	0.7	18.8	21.8	1040
IC-FS-12-00150-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006572	12	1.5	0.6	19.7	22.7	1010
IC-FS-12-00250-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006573	12	2.5	0.7	22.2	25.5	1260
IC-FS-12-00400-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006574 [†]	12	4	0.7	25.6	28.8	1760
IC-FS-19-00150-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006575	19	1.5	0.6	22.8	26.1	1340
IC-FS-19-00250-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006576	19	2.5	0.7	27	30.5	1910
IC-FS-19-00400-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006577 [†]	19	4	0.7	29.7	33.2	2360
IC-FS-27-00150-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006578 [†]	27	1.5	0.6	28.2	31.7	1970
IC-FS-27-00250-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006579 [†]	27	2.5	0.7	32	36.7	2480
IC-FS-27-00400-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006580 [†]	27	4	0.7	35.3	39.2	3110
IC-FS-37-00150-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006581 [†]	37	1.5	0.6	31.4	34.9	2390
IC-FS-37-00250-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006582 [†]	37	2.5	0.7	35.7	39.4	3060
IC-FS-37-00400-CU-SIR-FS2XWH-0660-BS7846-ZHFR	IC1006583 [†]	37	4	0.7	40.7	44.8	4255

The above data is approximate & subject to manufacturing tolerance.

REGISTER NOTE

All seventy-six items are **DRAFT** and were **derived from the code structure** — none exists in the Item Master. The blocking value is the insulation: this cable is silicone rubber insulated, and the register carries **no row at all against SIR**, on any line. SIR is a valid tab 5 value, so the code builds, but Rule 14 requires the designation to match the insulation and every FS designation in the register is defined as mica + XLPE. FS2XWH is used as the nearest available value — its armour and sheath (galvanized steel round wire, LSZH) are exactly right, its insulation letter is not. **A silicone-rubber fire-survival designation needs adding to tab 5** before any of these can go ACTIVE. Two further gaps: the voltage grade 0660 matches the sheet's 600/1000 V exactly but carries no register rows — the existing FS block sits at 1100; and the sheet's fire-resistance class BS 7846-F2 has no option token, the register offering only F30 / F60 / F120 circuit-integrity durations, so no F- option is carried in these codes. Rows marked [†] have no cores / size row even in the XLPE FS2XWH family: the FS line covers cores 01, 02, 03, 04, 07, 12, 19 at 1.5–300 mm², so 5 core, 27 core, 37 core, 400 mm² and 4 mm² above 5 cores are all new. Item IDs IC1006508–IC1006583 are reserved for this sheet; next free is IC1006584.

ISO 9001

Cert. 99 100 22646 (TÜV SÜD)

ISI

Bureau of Indian Standards • CM/L 6200266003

ROHS

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REACH

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MAKE IN INDIA

Manufactured in India