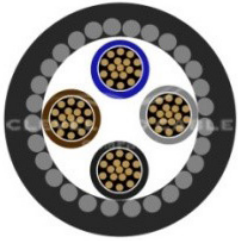


## F2 FIRE RESISTANT MAINS CABLE 1.5MM<sup>2</sup> - 16MM<sup>2</sup>



### APPLICATION

The armoured fire resistant cable is suitable for fixed installations such as power circuits, fire alarm systems and emergency lighting.

### CABLE STANDARDS

Flame propagation to BS EN 50265,  
BS EN 50266 (IEC 60332-3).  
Fire resistant to BS7846 F2 / BS6387 & CWZ.  
Acid gas emission to BS EN 50267 (IEC60754)  
Smoke emission to BS EN 50268 (IEC 61034).

### CONSTRUCTION

**Conductor:** Plain Annealed Stranded Copper Conductor

**Separator:** MICA/Glass Fire Barrier Tape

**Insulation:** Cross Link Polyethylene (XLPE)

**Bedding:** Low Smoke and Zero Halogen (LSZH)

**Armouring:** Galvanised Steel Wire Armour

**Sheath:** Low Smoke and Zero Halogen (LSZH)

**Sheath Colour:** Black

### CHARACTERISTICS

**Voltage Rating:** 600/1000 Volts

**Temperature Limits:** -10°C to +90°C

**Minimum Bending Radius:**  
As per cable manufacturer datasheet

### CORE IDENTIFICATION

2 Core: **Brown** **Blue**  
3 Core: **Brown** **Black** **Grey**  
4 Core: **Brown** **Black** **Grey** **Blue**  
5 Core: **Brown** **Black** **Grey** **Blue** **Green/Yellow**

5 Core also available in **White** numbered cores.

Should not be installed at temperatures below 0°C or above +40°C

## FP2 FIRE RESISTANT MAINS CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NUMBER OF CORES	WEIGHT (Kg/Km)	OUTSIDE DIAMETER (MM)	GLAND SIZE (MM)	CMP FIRE RATED CLEAT OPTIONS		THEMIS CLEAT
							HELIOS	SOLACE	
6942F1/5	1.5	7/0.53	2	295	12	20/16	FPC1013	1BC1013HT	-
6943F1/5	1.5	7/0.53	3	324	12.5	20/16	FPC1013	1BC1013HT	-
6944F1/5	1.5	7/0.53	4	367	13.3	20S	FPC1316	1BC1316HT	-
6947F1/5	1.5	7/0.53	7	463	15.3	20S	FPC1316	1BC1316HT	-
6940/12F1/5	1.5	7/0.53	12	791	20	25	FPC1923	1BC1923HT	-
6940/19F1/5	1.5	7/0.53	19	1030	22.9	25	FPC1923	1BC1923HT	-
6940/27F1/5	1.5	7/0.53	27	1534	27.9	32	FPC2732	1BC2732HT	-
6940/37F1/5	1.5	7/0.53	37	1849	30.7	32	FPC2732	1BC2732HT	-
6942F2/5	2.5	7/0.67	2	352	13.1	20S	FPC1316	1BC1316HT	-
6943F2/5	2.5	7/0.67	3	392	13.7	20S	FPC1316	1BC1316HT	-
6944F2/5	2.5	7/0.67	4	454	14.7	20S	FPC1316	1BC1316HT	-
6947F2/5	2.5	7/0.67	7	584	17	20	FPC1619	1BC1619HT	-
6940/12F2/5	2.5	7/0.67	12	1003	22.5	25	FPC1923	1BC1923HT	-
6940/19F2/5	2.5	7/0.67	19	1525	27	32	FPC2327	1BC2327HT	-
6940/27F2/5	2.5	7/0.67	27	1990	31.6	32	FPC2732	1BC2732HT	-
6940/37F2/5	2.5	7/0.67	37	2435	34.8	40	FPC3238	1BC3238HT	-
6942F4	4	7/0.85	2	424	14.1	20S	FPC1316	1BC1316HT	-
6943F4	4	7/0.85	3	478	14.8	20S	FPC1316	1BC1316HT	-
6944F4	4	7/0.85	4	556	16	20	FPC1316	1BC1316HT	-
6945F4	4	7/0.85	5	725	18.12	20	FPC1619	1BC1619HT	-
6947F4	4	7/0.85	7	852	19.5	20	FPC1923	1BC1923HT	-
6942F6	6	7/1.04	2	504	15.2	20	FPC1316	1BC1316HT	-
6943F6	6	7/1.04	3	573	16	20	FPC1316	1BC1316HT	-
6944F6	6	7/1.04	4	783	18.2	20	FPC1619	1BC1619HT	-
6945F6	6	7/1.04	5	865	19.65	20	FPC1923	1BC1923HT	-
6942F10	10	7/1.35	2	620	16.9	20	FPC1619	1BC1619HT	-
6943F10	10	7/1.35	3	868	18.5	20	FPC1619	1BC1619HT	-
6944F10	10	7/1.35	4	1029	20	25	FPC1923	1BC1923HT	-
6945F10	10	7/1.35	5	1222	22.64	25	FPC1923	1BC1923HT	-
6942F16	16	7/1.70	2	954	19.5	25	FPC1923	1BC1923HT	-
6943F16	16	7/1.70	3	1136	20.8	25	FPC1923	1BC1923HT	-
6944F16	16	7/1.70	4	1367	22.5	25	FPC1923	1BC1923HT	-
6945F16	16	7/1.70	5	1812	26.55	25	FPC2327	1BC2327HT	-

## F2 FIRE RESISTANT MAINS CABLE – CARRYING CAPACITY (AMPERES)

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	2 CORE			3 AND 4 CORE		
	SINGLE PHASE			THREE PHASE		
	LAID DIRECT AMPS	IN DUCT AMPS	IN AIR AMPS	LAID DIRECT AMPS	IN DUCT AMPS	IN AIR AMPS
4	65	53	55	55	45	47
6	81	67	70	69	56	59
10	109	89	95	92	75	82
16	141	115	126	119	96	107
25	183	148	164	152	124	140
35	219	178	202	182	149	172
50	259	211	244	217	177	209
70	317	260	306	266	218	263
95	381	313	378	319	263	324
120	433	357	437	363	300	376
150	485	401	499	406	338	430
185	547	455	576	458	382	495
240	632	527	680	529	442	584
300	708	592	775	592	496	672
400	799	669	892	667	570	766

## F2 FIRE RESISTANT MAINS CABLE – VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA MM <sup>2</sup>	DC MV/A/M	SINGLE PHASE AC MV/A/M	THREE PHASE AC MV/A/M
4	12	12	10
6	7.9	7.9	6.8
10	4.7	4.7	4
16	2.9	2.9	2.5
25	1.85	1.9	1.65
35	1.35	1.35	1.15
50	0.98	1	0.87
70	0.67	0.69	0.6
95	0.49	0.52	0.45
120	0.39	0.42	0.37
150	0.31	0.35	0.3
185	0.25	0.29	0.26
240	0.195	0.24	0.21
300	0.155	0.21	0.185
400	0.12	0.19	0.165

THE ABOVE IS IN ACCORDANCE WITH 18<sup>TH</sup> EDITION OF IET WIRING REGULATIONS

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