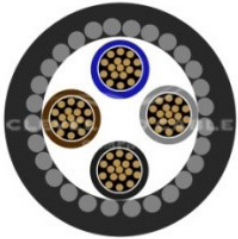


## FP-400 ENHANCED FIRE RESISTANT MAINS CABLE 25MM<sup>2</sup> - 400MM<sup>2</sup>



### 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).

BASEC Approved

### CONSTRUCTION

**Conductor:** Plain Annealed Stranded Copper Conductor

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

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

**Bedding:** LSZH

**Armouring:** Galvanised Steel Wire Armour

**Sheath:** 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 ■ G/Y

5 core also available in white numbered cores.

## FP-400 ENHANCED FIRE RESISTANT MAINS CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM2)	STRANDING (MM)	NUMBER OF CORES	WEIGHT (Kg/Km)	OUTSIDE DIAMETER (MM)	GLAND SIZE (MM)	CMP FIRE RATED CLEAT OPTIONS		THEMIS CLEAT
							HELIOS	SOLACE	
FP2X25	25	2.14/7	2	1100	21.4	24	FPC1923	1BC1923HT	-
FP3X25	25	2.14/7	3	1800	26.6	32	FPC2327	1BC2327HT	-
FP4X25	25	2.14/7	4	2150	28.8	32	FPC2732	1BC2732HT	-
FP5X25	25	2.14/7	5	2700	32	32	FPC2732	1BC2732HT	-
FP2X35	35	2.52/7	2	1550	24.3	25	FPC2327	1BC2327HT	-
FP3X35	35	2.52/7	3	2200	29.1	32	FPC2732	1BC2732HT	-
FP4X35	35	2.52/7	4	2650	31.6	32	FPC2732	1BC2732HT	-
FP2X50	50	1.78/19	2	1850	26.8	32	FPC2327	1BC2327HT	-
FP3X50	50	1.78/19	3	2450	29.6	32	FPC2732	1BC2732HT	-
FP4X50	50	1.78/19	4	3100	33.2	40	FPC3238	1BC3238HT	-
FP2X70	70	2.14/19	2	2450	30	32	FPC2732	1BC2732HT	-
FP3X70	70	2.14/19	3	3200	33.3	40	FPC3238	1BC3238HT	-
FP4X70	70	2.14/19	4	4400	38.9	40	FPC3846	1BC3845HT	2BC038048HT
FP2X95	95	2.52/19	2	3350	34.1	40	FPC3238	1BC3238HT	-
FP3X95	95	2.52/19	3	4450	38.1	40	FPC3846	1BC3845HT	2BC038048HT
FP4X95	95	2.52/19	4	5650	42.9	50S	FPC3846	1BC3845HT	2BC038048HT
FP2X120	120	2.03/37	2	3900	37.1	40	FPC3238	1BC3238HT	-
FP3X120	120	2.03/37	3	5300	41.5	50S	FPC3846	1BC3845HT	2BC038048HT
FP4X120	120	2.03/37	4	7250	48.3	50	FPC4651	1BC4551HT	2BC048058HT
FP2X150	150	2.25/37	2	4650	40.3	50S	FPC3846	1BC3845HT	2BC038048HT
FP3X150	150	2.25/37	3	6700	46.6	50	FPC4651	1BC4551HT	2BC038048HT
FP4X150	150	2.25/37	4	8550	52.6	50	FPC5157	1BC5158HT	2BC048058HT
FP2X185	185	2.52/37	2	5950	45.7	50	FPC3846	1BC4551HT	2BC038048HT
FP3X185	185	2.52/37	3	8050	50.9	50	FPC4651	1BC4551HT	2BC048058HT
FP4X185	185	2.52/37	4	10300	57.8	63S	FPC5765	1BC5158HT	2BC048058HT
FP2X240	240	2.25/61	2	7350	50	50	FPC4651	1BC4551HT	2BC048058HT
FP3X240	240	2.25/61	3	9950	56.2	63S	FPC5157	1BC5158HT	2BC048058HT
FP4X240	240	2.25/61	4	12900	64.2	63	FPC5765	1BC5865HT	2BC058070HT
FP2X300	300	2.52/61	2	8700	54.5	63S	FPC5157	1BC5158HT	2BC048058HT
FP3X300	300	2.52/61	3	12050	61.3	63	FPC5765	1BC5865HT	2BC058070HT
FP4X300	300	2.52/61	4	15550	70	75S	-	1BC6571HT	2BC058070HT
FP3X400	400	2.85/61	3	14800	67.7	75S	-	1BC6571HT	2BC058070HT
FP4X400	400	2.85/61	4	20250	79.3	90	-	-	2BC070083HT

### ENHANCED 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

### ENHANCED 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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