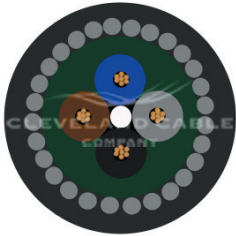


## F120 ENHANCED FIRE RESISTANT MAINS CABLE



### APPLICATION

Fireproof mains cable is suitable for fixed installations such as power circuits, fire alarm systems and emergency lighting. It has been specifically designed to meet the stringent standards of BS8491 which includes enhanced resistance to heat and fire, direct impact of 10N and water jet as would be produced by a fire fighting unit.

### 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**

### CABLE STANDARDS

BS7846/ BS8491

Circuit integrity: BS8519-2020 120 minutes / BS8491,

Acid gas emission to IEC 60754

Flame propagation to BS EN 50265, BS EN 50266 (IEC 60332-3).

Smoke emission to IEC 60332-3

BS EN 50267, BS EN 50268

LPCB Approved

### 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**

## F120 ENHANCED 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	
FPE2X4	4	7/0.85	2	871	21.80	25	FPC1923	1BC1923HT	-
FPE3X4	4	7/0.85	3	966	22.70	25	FPC1923	1BC1923HT	-
FPE4X4	4	7/0.85	4	959	24.00	25	FPC2327	1BC2327HT	-
FPE5X4	4	7/0.85	5	1040	25.6	25	FPC2327	1BC2327HT	-
FPE2X6	6	7/1.04	2	1001	23.00	25	FPC1923	1BC1923HT	-
FPE3X6	6	7/1.04	3	1087	23.80	25	FPC2327	1BC2327HT	-
FPE4X6	6	7/1.04	4	1252	25.20	25	FPC2327	1BC2327HT	-
FPE5X6	6	7/1.04	5	1410	25.90	25	FPC2327	1BC2327HT	-
FPE2X10	10	7/1.35	2	1060	23.80	20	FPC2327	1BC2327HT	-
FPE3X10	10	7/1.35	3	1180	24.80	25	FPC2327	1BC2327HT	-
FPE4X10	10	7/1.35	4	1350	30.30	25	FPC2732	1BC2732HT	-
FPE5X10	10	7/1.35	5	1590	27.40	25	FPC2732	1BC2732HT	-
FPE2X16	16	7/1.7	2	1290	25.90	25	FPC2327	1BC2327HT	-
FPE3X16	16	7/1.7	3	1460	27.10	32	FPC2732	1BC2732HT	-
FPE4X16	16	7/1.7	4	1690	28.98	32	FPC2732	1BC2732HT	-
FPE5X16	16	7/1.7	5	1920	30.20	32	FPC2732	1BC2732HT	-
FPE2X25	25	7/2.14	2	1640	29.00	32	FPC2732	1BC2732HT	-
FPE3X25	25	7/2.14	3	2070	31.10	32	FPC2732	1BC2732HT	-
FPE4X25	25	7/2.14	4	2410	33.40	40	FPC3238	1BC3238HT	-
FPE5X25	25	7/2.14	5	2810	35.70	40	FPC3238	1BC3238HT	-
FPE2X35	35	7/2.52	2	2130	31.90	32	FPC2732	1BC2732HT	-
FPE3X35	35	7/2.52	3	2480	33.50	40	FPC3238	1BC3238HT	-
FPE4X35	35	7/2.52	4	2920	36.10	40	FPC3238	1BC3238HT	-
FPE5X35	35	7/2.52	5	3170	39.50	40	FPC3238	1BC3238HT	-
FPE2X50	50	19/1.78	2	2030	29.90	32	FPC2732	1BC2732HT	-
FPE3X50	50	19/1.78	3	2630	33.20	40	FPC3238	1BC3238HT	-
FPE4X50	50	19/1.78	4	3280	37.10	40	FPC3238	1BC3238HT	-
FPE5X50	50	19/1.78	5	3850	41.80	40	FPC3238	1BC3238HT	-
FPE2X70	70	19/2.14	2	2580	33.30	40	FPC3238	1BC3238HT	-
FPE3X70	70	19/2.14	3	3400	37.00	40	FPC3238	1BC3238HT	-
FPE4X70	70	19/2.14	4	4570	45.50	50	FPC3846	1BC4551HT	2BC038048HT
FPE5X70	70	19/2.14	5	5670	49.50	50	FPC3846	1BC4551HT	2BC038048HT
FPE2X95	95	19/2.52	2	3440	37.20	40	FPC3238	1BC3238HT	-
FPE3X95	95	19/2.52	3	4550	41.20	50S	FPC3846	1BC3845HT	2BC038048HT
FPE4X95	95	19/2.52	4	5720	46.40	50	FPC4651	1BC4551HT	2BC038048HT
FPE2X120	120	37/2.03	2	4050	39.90	50S	FPC3846	1BC3845HT	2BC038048HT
FPE3X120	120	37/2.03	3	5410	44.40	50S	FPC3846	1BC3845HT	2BC038048HT
FPE4X120	120	37/2.03	4	7270	51.20	50	FPC5157	1BC5158HT	2BC048058HT
FPE2X150	150	37/2.25	2	4740	43.10	50S	FPC3846	1BC3845HT	2BC038048HT
FPE3X150	150	37/2.25	3	6800	49.30	50	FPC4651	1BC4551HT	2BC048058HT
FPE4X150	150	37/2.25	4	8580	55.70	63S	FPC5157	1BC5158HT	2BC048058HT
FPE2X185	185	37/2.52	2	6050	48.10	50	FPC4651	1BC4551HT	2BC048058HT
FPE3X185	185	37/2.52	3	8140	53.70	63S	FPC5157	1BC5158HT	2BC048058HT
FPE4X185	185	37/2.52	4	10300	60.80	63	FPC5765	1BC5865HT	2BC058070HT
FPE2X240	240	61/2.25	2	7390	52.40	50	FPC5157	1BC5158HT	2BC048058HT
FPE3X240	240	61/2.25	3	10040	58.80	63	FPC5765	1BC5865HT	2BC058070HT
FPE4X240	240	61/2.25	4	12800	66.50	75S	-	1BC6571HT	2BC058070HT
FPE2X300	300	61/2.52	2	8760	56.50	63S	FPC5157	1BC5158HT	2BC048058HT
FPE3X300	300	61/2.52	3	12020	63.50	63	FPC5765	1BC5865HT	2BC058070HT
FPE4X300	300	61/2.52	4	15410	72.10	75	-	-	2BC070083HT
FPE3X400	400	61/2.85	3	14820	70.10	75S	-	1BC6571HT	2BC070083HT
FPE4X400	400	61/2.85	4	19910	81.30	90	-	-	2BC070083HT

## F120 ENHANCED FIRE RESISTANT MAINS CABLE-CARRYING CAPACITY (AMPS)

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	49	43	52	42	36	44
6	62	53	66	53	44	56
10	85	71	90	73	58	78
16	110	91	115	94	75	99
25	146	116	152	124	96	131
35	180	139	188	154	115	162
50	219	164	288	187	135	197
70	279	203	291	238	167	251
95	338	239	354	289	197	304
120	392	271	410	335	223	353
150	451	306	472	386	251	406
185	515	343	539	441	281	463
240	607	395	636	520	324	546
300	698	446	732	599	365	628
400	787	498	847	673	420	728

## F120 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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