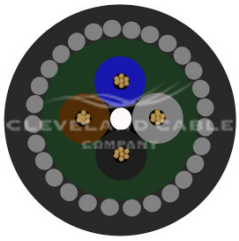
CLEVELAND CABLE COMPANY
A WORLD POWER IN CABLE SUPPLY

T: 01642 241133
W: www.clevelandcable.com
E: sales@clevelandcable.com

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.

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

BASEC Approved

LPCB 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

T: 01642 241133
W: www.clevelandcable.com
E: sales@clevelandcable.com

F120 ENHANCED FIRE RESISTANT MAINS CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM^2)	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	-
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	-
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	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	-
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	-
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	-
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	-
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
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

T: 01642 241133
W: www.clevelandcable.com
E: sales@clevelandcable.com

F120 ENHANCED FIRE RESISTANT MAINS CABLE–CARRYING CAPACITY (AMPERES)

NOMINAL CROSS SECTIONAL AREA (MM^2)	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

F120 ENHANCED FIRE RESISTANT MAINS CABLE–VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA MM^2	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 18TH EDITION OF IET WIRING REGULATIONS