

FRT-H, FRT-XH,
FRT-XAH (ARMOURED)

Flame Retardant Power Cables

SINGLE CORE

**FRT-H
SINGLE CORE**



**FRT-XH
SINGLE CORE**



**FRT-XAH
(ARMOURED)
SINGLE CORE**



**FRT-H
single core**

**FRT-XH
single core**

**FRT-XAH
(ARMOURED)
single core**

<p>Conductor : Insulation : Bedding : Armouring : Sheath : Colour : Reference Standard : Test Standard : Voltage U₀/U : Conductor Stranding : Operating Temperature : Minimum Bending Radius :</p>	<p>Plain Annealed Copper (a) XL-LSZH Compound or (b) XLEVA Compound N.A. N.A. N.A. Insulation: Red, Blue, Black, Brown, Grey, Green/Yellow BS 7211 / In-house IEC 60332-3, BS 4066-3, BS EN 50266-2-2 IEC 60754-1, BS 6425-1, BS EN 50267-2-1 IEC 60754-2, BS 6425-2, BS EN 50267-2-2 IEC 61034-2, BS 7622-2, BS EN 61034-2 600 / 1000V Class 2 (a) Max 90°C for XL-LSZH Compound (b) Max 110°C for XLEVA 8D for unarmoured cable</p>	<p>Plain Annealed Copper (a) XLPE Compound or (b) XLEVA Compound N.A. N.A. LSZH Compound Insulation: Natural Sheath - Black IEC 60502 IEC 60332-3, BS 4066-3, BS EN 50266-2-2 IEC 60754-1, BS 6425-1, BS EN 50267-2-1 IEC 60754-2, BS 6425-2, BS EN 50267-2-2 IEC 61034-2, BS 7622-2, BS EN 61034-2 600 / 1000V Class 2 (a) Max 90°C for XLPE (b) Max 110°C for XLEVA 8D for unarmoured cable</p>	<p>Plain Annealed Copper (a) XLPE Compound or (b) XLEVA Compound LSZH Compound Aluminium Wire LSZH Compound Insulation: Natural Sheath - Black IEC 60502 / BS 6724 IEC 60332-3, BS 4066-3, BS EN 50266-2-2 IEC 60754-1, BS 6425-1, BS EN 50267-2-1 IEC 60754-2, BS 6425-2, BS EN 50267-2-2 IEC 61034-2, BS 7622-2, BS EN 61034-2 600 / 1000V Class 2 (a) Max 90°C for XLPE (b) Max 110°C for XLEVA 10D for armoured cable</p>
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Flame Retardant Power Cables

SINGLE CORE

FRT-H, FRT-XH, FRT-XAH (ARMOURED)

Flame Retardant Power Cables FRT-H, FRT-XH, FRT-XAH (ARMOURED)

Table 8

SIZE	FRT-H				FRT-XH			FRT-XAH			
	Nominal Conductor Area (mm ²)	No. & Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Insulated, Non-Sheathed		Radial Thickness of Insulation (mm)	Unarmoured		Armoured		
Cable Overall Diameter (mm)				Approx. Weight (kg/km)	Cable Overall Diameter (mm)		Approx. Weight (kg/km)	Diameter Under Armour (mm)	Armour Wire Diameter (mm)	Cable Overall Diameter (mm)	Approx. Weight (kg/km)
1 x 1.5	7 / 0.53	0.7	3.1	22	0.7	6.0	48	-	-	-	-
1 x 2.5	7 / 0.67	0.8	3.7	34	0.7	6.4	63	-	-	-	-
1 x 4	7 / 0.85	0.8	4.3	50	0.7	7.0	78	-	-	-	-
1 x 6	7 / 1.04	0.8	4.8	70	0.7	7.5	105	-	-	-	-
1 x 10	7 / 1.35	1.0	6.2	116	0.7	8.5	151	-	-	-	-
1 x 16	7 / 1.70	1.0	7.2	174	0.7	9.5	211	-	-	-	-
1 x 25	7 / 2.14	1.2	9.0	276	0.9	11.2	315	-	-	-	-
1 x 35	7 / 2.52	1.2	10.0	366	0.9	12.4	416	-	-	-	-
1 x 50	19 / 1.78	1.4	11.9	502	1.0	14.0	569	-	-	-	-
1 x 70	19 / 2.14	1.4	13.7	706	1.1	16.0	792	15.4	1.25	21.5	960
1 x 95	19 / 2.52	1.6	16.0	974	1.1	18.0	1068	17.3	1.25	23.4	1240
1 x 120	37 / 2.03	1.6	17.6	1213	1.2	20.0	1325	19.1	1.6	25.9	1650
1 x 150	37 / 2.25	1.8	19.6	1492	1.4	22.0	1627	21.1	1.6	27.9	1970
1 x 185	37 / 2.52	2.0	21.8	1868	1.6	24.4	2021	23.2	1.6	30.1	2390
1 x 240	61 / 2.25	2.2	24.4	2443	1.7	27.5	2617	26.2	1.6	33.2	3040
1 x 300	61 / 2.52	2.4	27.7	3055	1.8	30.3	3252	28.8	1.6	35.8	3790
1 x 400	61 / 2.85	2.6	31.1	3888	2.0	33.9	4131	32.7	2.0	40.9	4790
1 x 500	61 / 3.20	2.8	34.6	4880	2.2	37.6	5175	36.2	2.0	44.6	5880
1 x 630	127 / 2.52	2.8	38.6	6229	2.4	42.4	6631	40.6	2.0	49.2	7400
1 x 800	127 / 2.85	-	-	-	2.6	47.3	8412	45.7	2.5	55.7	9500
1 x 1000	127 / 3.20	-	-	-	2.8	52.4	10530	50.6	2.5	61.0	11750

Note: For FRT-H cables, Cross-Linked LSZH Compound will be used as the insulation material.

FRT-XH,
FRT-XSH (ARMOURED)

Flame Retardant Power Cables

2-4 CORES,
5 CORES & ABOVE

FRT-XH
2-4 CORES,
5 CORES & ABOVE

**FRT-XSH
(ARMOURED)**
2-4 CORES,
5 CORES & ABOVE



FRT-XH
2-4 cores,
5 cores & above

**FRT-XSH
(ARMOURED)**
2-4 cores,
5 cores & above

<p>Conductor : Insulation : Bedding : Armouring : Sheath : Colour :</p> <p>Reference Standard : Test Standard :</p> <p>Voltage Uo/U : Conductor Stranding : Operating Temperature : Minimum Bending Radius :</p>	<p>Plain Annealed Copper (a) XLPE Compound or (b) XLEVA Compound N.A. N.A. LSZH Compound Insulation: 2 Cores - Red & Black or Brown & Blue 3 Cores - Red, Yellow & Blue or Brown, Black & Grey 4 Cores - Red, Yellow, Blue & Black or Brown, Black, Grey & Blue 5 Cores - Red, Yellow, Blue, Black & Green/Yellow or Brown, Black, Grey, Blue & Green/Yellow Above 5 Cores - White with Black numberings</p> <p>Sheath - Black IEC 60502 / BS 6724 IEC 60332-3, BS 4066-3, BS EN 50266-2-2 IEC 60754-1, BS 6425-1, BS EN 50267-2-1 IEC 60754-2, BS 6425-2, BS EN 50267-2-2 IEC 61034-2, BS 7622-2, BS EN 61034-2 600 / 1000V Class 2 (a) Max 90°C for XLPE (b) Max 110°C for XLEVA 8D for unarmoured cable</p>	<p>Plain Annealed Copper (a) XLPE Compound or (b) XLEVA Compound LSZH Compound Galvanized Steel Wire LSZH Compound Insulation: 2 Cores - Red & Black or Brown & Blue 3 Cores - Red, Yellow & Blue or Brown, Black & Grey 4 Cores - Red, Yellow, Blue & Black or Brown, Black, Grey & Blue 5 Cores - Red, Yellow, Blue, Black & Green/Yellow or Brown, Black, Grey, Blue & Green/Yellow Above 5 Cores - White with Black numberings</p> <p>Sheath - Black IEC 60502 / BS 6724 IEC 60332-3, BS 4066-3, BS EN 50266-2-2 IEC 60754-1, BS 6425-1, BS EN 50267-2-1 IEC 60754-2, BS 6425-2, BS EN 50267-2-2 IEC 61034-2, BS 7622-2, BS EN 61034-2 600 / 1000V Class 2 (a) Max 90°C for XLPE (b) Max 110°C for XLEVA 10D for armoured cable</p>
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Flame Retardant Power Cables FRT-XH, FRT-XSH (ARMoured)

Table 9

SIZE	Nominal Conductor Area (mm ²)	No. & Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	FRT-XH		FRT-XSH			
				Unarmoured		Armoured			
				Cable Overall Diameter (mm)	Approx. Weight (kg/km)	Diameter Under Armour (mm)	Armour Wire Diameter (mm)	Cable Overall Diameter (mm)	Approx. Weight (kg/km)
2 x 1.5	7 / 0.53	0.7	10.0	126	8.5	0.9	13.9	350	2 Cores
2 x 2.5	7 / 0.67	0.7	10.8	158	9.3	0.9	14.7	400	
2 x 4	7 / 0.85	0.7	11.9	205	10.4	0.9	15.8	475	
2 x 6	7 / 1.04	0.7	13.0	264	11.5	0.9	16.9	560	
2 x 10	7 / 1.35	0.7	14.9	378	13.4	1.25	19.5	810	
2 x 16	7 / 1.70	0.7	17.0	534	15.5	1.25	21.6	980	
2 x 25	7 / 2.14	0.9	20.4	650	18.9	1.6	25.7	1410	
2 x 35	7 / 2.52	0.9	22.7	880	21.2	1.6	28.0	1930	
3 x 1.5	7 / 0.53	0.7	10.5	145	9.0	0.9	14.4	390	3 Cores
3 x 2.5	7 / 0.67	0.7	11.4	185	9.9	0.9	15.3	450	
3 x 4	7 / 0.85	0.7	12.5	247	11.0	0.9	16.4	540	
3 x 6	7 / 1.04	0.7	13.8	323	11.6	1.25	17.7	745	
3 x 10	7 / 1.35	0.7	15.8	474	14.3	1.25	20.4	950	
3 x 16	7 / 1.70	0.7	18.0	682	16.5	1.25	23.0	1250	
3 x 25	7 / 2.14	0.9	21.7	910	20.2	1.6	27.0	1840	
3 x 35	7 / 2.52	0.9	24.0	1180	22.4	1.6	29.2	2050	
3 x 50 (S)	19 / 1.78	1.0	25.5	1600	24.2	1.6	31.2	2590	
3 x 70 (S)	19 / 2.14	1.1	29.0	2240	28.2	2.0	36.2	3560	
3 x 95 (S)	19 / 2.52	1.1	33.5	3050	31.7	2.0	40.1	4590	
3 x 120 (S)	37 / 2.03	1.2	37.5	3800	36.0	2.0	44.6	5810	
3 x 150 (S)	37 / 2.25	1.4	40.5	4640	39.5	2.5	49.5	6920	
3 x 185 (S)	37 / 2.52	1.6	45.0	5870	43.3	2.5	53.5	8340	
3 x 240 (S)	61 / 2.25	1.7	50.5	7670	48.4	2.5	59.0	10450	
3 x 300 (S)	61 / 2.52	1.8	57.0	9460	54.4	2.5	65.4	12700	
3 x 400 (S)	61 / 2.85	2.0	63.0	11945	57.8	2.5	70.0	15326	
4 x 1.5	7 / 0.53	0.7	11.3	169	10.0	0.9	15.4	430	4 Cores
4 x 2.5	7 / 0.67	0.7	12.3	220	10.8	0.9	16.2	505	
4 x 4	7 / 0.85	0.7	13.6	297	12.1	0.9	17.5	710	
4 x 6	7 / 1.04	0.7	15.0	392	13.5	1.25	19.6	855	
4 x 10	7 / 1.35	0.7	17.2	585	15.7	1.25	21.8	1120	
4 x 16	7 / 1.70	0.7	19.7	851	18.2	1.6	25.0	1600	
4 x 25	7 / 2.14	0.9	23.9	1200	22.4	1.6	29.2	2160	
4 x 35	7 / 2.52	0.9	25.0	1600	24.4	1.6	31.4	2560	
4 x 50 (S)	19 / 1.78	1.0	28.0	2200	28.0	1.6	35.2	3180	
4 x 70 (S)	19 / 2.14	1.1	32.0	3050	32.2	2.0	40.6	4490	
4 x 95 (S)	19 / 2.52	1.1	37.0	4070	36.0	2.0	44.6	5725	
4 x 120 (S)	37 / 2.03	1.2	42.0	5915	38.0	2.5	50.0	7550	
4 x 150 (S)	37 / 2.25	1.4	46.0	6350	42.8	2.5	53.0	8555	
4 x 185 (S)	37 / 2.52	1.6	50.0	7890	48.4	2.5	59.0	10560	
4 x 240 (S)	61 / 2.25	1.7	57.0	10400	55.0	2.5	66.0	13180	
4 x 300 (S)	61 / 2.52	1.8	63.0	12810	59.6	2.5	71.0	16100	
4 x 400 (S)	61 / 2.85	2.0	71.0	15869	66.1	3.15	79.4	20715	
4 x 500 (S)	61 / 3.20	2.2	78.0	20300	74.6	3.15	88.5	25347	

(S) - Sectoral Stranded Conductors.

FRT-XH, FRT-XSH (ARMOURED)

Flame Retardant Power Cables

5 cores & above

Flame Retardant Power Cables FRT-XH, FRT-XSH (ARMOURED)

Table 10

SIZE		Radial Thickness of Insulation (mm)	FRT-XH		FRT-XSH			
Nominal Conductor Area (mm ²)	No. & Diameter of Wires (no./mm)		Unarmoured		Armoured			
			Cable Overall Diameter (mm)	Approx. Weight (kg/km)	Diameter Under Armour (mm)	Armour Wire Diameter (mm)	Cable Overall Diameter (mm)	Approx. Weight (kg/km)
5 x 1.5	7 / 0.53	0.7	11.3	184	9.9	0.9	14.5	402
7 x 1.5	7 / 0.53	0.7	12.4	225	11.2	0.9	16.0	490
10 x 1.5	7 / 0.53	0.7	15.6	325	14.3	1.25	20.0	761
12 x 1.5	7 / 0.53	0.7	16.2	370	14.8	1.25	20.5	827
19 x 1.5	7 / 0.53	0.7	19.0	516	17.4	1.6	24.0	1186
27 x 1.5	7 / 0.53	0.7	22.7	712	21.3	1.6	28.1	1537
37 x 1.5	7 / 0.53	0.7	25.5	941	23.9	1.6	30.7	1856
48 x 1.5	7 / 0.53	0.7	29.0	1186	27.5	1.6	34.6	2276
5 x 2.5	7 / 0.67	0.7	12.8	237	11.2	0.9	15.8	496
7 x 2.5	7 / 0.67	0.7	13.8	303	12.4	0.9	17.2	602
10 x 2.5	7 / 0.67	0.7	17.5	426	15.9	1.25	21.8	943
12 x 2.5	7 / 0.67	0.7	18.1	489	16.5	1.25	22.4	1020
19 x 2.5	7 / 0.67	0.7	21.3	725	19.9	1.6	26.7	1498
27 x 2.5	7 / 0.67	0.7	25.5	1004	23.9	1.6	30.9	1933
37 x 2.5	7 / 0.67	0.7	28.7	1334	26.9	1.6	33.9	2372
48 x 2.5	7 / 0.67	0.7	32.9	1706	31.3	2.0	39.6	3252
5 x 4	7 / 0.85	0.7	14.2	324	12.6	1.25	18.2	712
7 x 4	7 / 0.85	0.7	15.5	422	14.1	1.25	19.8	871
10 x 4	7 / 0.85	0.7	19.7	597	18.5	1.25	24.4	1213
12 x 4	7 / 0.85	0.7	20.3	690	19.1	1.6	25.7	1462
19 x 4	7 / 0.85	0.7	24.0	1037	22.6	1.6	29.4	1931
27 x 4	7 / 0.85	0.7	28.8	1445	27.2	1.6	34.4	2532
37 x 4	7 / 0.85	0.7	32.5	1932	31.1	2.0	39.3	3448
48 x 4	7 / 0.85	0.7	37.3	2479	35.7	2.0	44.2	4273

5 cores & above

Note: Other conductor sizes & core configurations are available upon request.
: Braided Armoured Cables are available upon request.