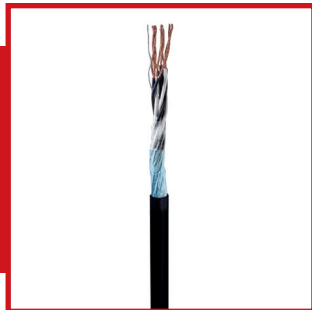


Flame Retardant Instrumentation Cables

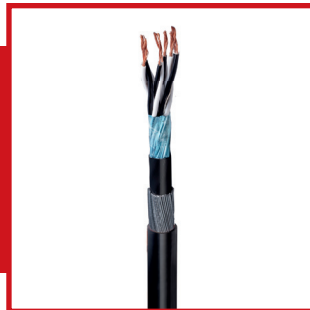
single & multi-pair,
multi-core

FRT-XOL, FRT-XOSL (ARMOURED)

**FRT-XOL
single &
multi-pair**



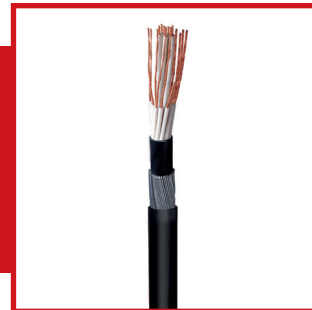
**FRT-XOSL
(ARMOURED)
single &
multi-pair**



**FRT-XOL
multi-core**



**FRT-XOSL
(ARMOURED)
multi-core**



**FRT-XOL
single & multi-pair**

**FRT-XOSL
(ARMOURED)
single & multi-pair**

**FRT-XOL
multi-core**

**FRT-XOSL
(ARMOURED)
multi-core**

<p>Conductor : Insulation : Overall Screen : Bedding : Armouring : Sheath : Colour :</p> <p>Reference Standard : Test Standard :</p> <p>Voltage U₀/U : Conductor Stranding : Operating Temperature : Minimum Bending Radius :</p>	<p>Plain Annealed Copper (a) XLPE Compound or (b) XLEVA Compound Aluminium / Polyester Tape with 0.5mm² (7/0.3mm) Tinned Drain Wire N.A. N.A. LSZH Compound Insulation: White and Black with numberings Sheath - Black BS EN 50288-7* 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 61034-2 300 / 500V 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 Aluminium / Polyester Tape with 0.5mm² (7/0.3mm) Tinned Drain Wire LSZH Compound Galvanized Steel Wire LSZH Compound Insulation: White and Black with numberings Sheath - Black BS EN 50288-7* 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 61034-2 300 / 500V Class 2 (a) Max 90°C for XLPE (b) Max 110°C for XLEVA 10D for armoured cable</p>	<p>Plain Annealed Copper (a) XLPE Compound or (b) XLEVA Compound Aluminium / Polyester Tape with 0.5mm² (7/0.3mm) Tinned Drain Wire N.A. N.A. LSZH Compound Insulation: White with Black numberings Sheath - Black BS EN 50288-7* 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 61034-2 300 / 500V 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 Aluminium / Polyester Tape with 0.5mm² (7/0.3mm) Tinned Drain Wire LSZH Compound Galvanized Steel Wire LSZH Compound Insulation: White with Black numberings Sheath - Black BS EN 50288-7* 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 61034-2 300 / 500V Class 2 (a) Max 90°C for XLPE (b) Max 110°C for XLEVA 10D for armoured cable</p>
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Note * : Previously known as BS 5308.

FRT-XOL, FRT-XOSL (ARMOURED)

Flame Retardant Instrumentation Cables

SINGLE & MULTI-PAIR

Flame Retardant Instrumentation Cables FRT-XOL, FRT-XOSL (ARMOURED)

Table 11

SIZE	Nominal Conductor Area (mm ²)	No. & Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	FRT-XOL		FRT-XOSL			
				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)
1P x 0.5	7 / 0.3	0.6	7.0	57	7.1	0.9	11.7	255	
2P x 0.5	7 / 0.3	0.6	10.6	97	10.7	0.9	15.5	395	
5P x 0.5	7 / 0.3	0.6	13.6	176	13.5	0.9	18.3	539	
10P x 0.5	7 / 0.3	0.6	19.2	321	18.7	1.25	24.4	941	
15P x 0.5	7 / 0.3	0.6	22.0	434	21.5	1.25	27.4	1156	
20P x 0.5	7 / 0.3	0.6	24.7	558	24.0	1.25	30.1	1360	
30P x 0.5	7 / 0.3	0.6	29.2	794	28.3	1.25	34.4	1720	
50P x 0.5	7 / 0.3	0.6	37.4	1271	36.1	1.6	43.3	2688	
1P x 0.75	7 / 0.37	0.6	7.4	65	7.5	0.9	12.1	276	
2P x 0.75	7 / 0.37	0.6	11.5	118	11.4	0.9	16.2	426	
5P x 0.75	7 / 0.37	0.6	14.8	218	14.5	1.25	20.2	710	
10P x 0.75	7 / 0.37	0.6	20.7	388	20.2	1.25	26.1	1062	
15P x 0.75	7 / 0.37	0.6	23.9	545	23.2	1.25	29.1	1306	
20P x 0.75	7 / 0.37	0.6	26.9	702	26.0	1.25	32.1	1554	
30P x 0.75	7 / 0.37	0.6	31.8	1002	30.7	1.25	37.0	2006	
50P x 0.75	7 / 0.37	0.6	40.7	1607	39.6	1.6	47.0	3206	
1P x 1.0	7 / 0.43	0.6	7.8	73	7.9	0.9	12.5	291	
2P x 1.0	7 / 0.43	0.6	12.2	134	12.1	0.9	16.9	461	
5P x 1.0	7 / 0.43	0.6	15.7	253	15.4	1.25	21.1	771	
10P x 1.0	7 / 0.43	0.6	22.0	455	21.5	1.25	27.4	1171	
15P x 1.0	7 / 0.43	0.6	25.4	642	24.7	1.25	30.8	1468	
20P x 1.0	7 / 0.43	0.6	28.6	831	27.7	1.25	33.8	1733	
30P x 1.0	7 / 0.43	0.6	34.1	1210	32.8	1.6	39.8	2488	
50P x 1.0	7 / 0.43	0.6	43.6	1942	42.3	2.0	50.7	3991	
1P x 1.5	7 / 0.53	0.6	8.4	87	8.5	0.9	13.1	320	
2P x 1.5	7 / 0.53	0.6	13.2	162	13.1	0.9	17.9	512	
5P x 1.5	7 / 0.53	0.6	17.1	318	16.8	1.25	22.5	885	
10P x 1.5	7 / 0.53	0.6	24.3	594	23.6	1.25	29.7	1383	
15P x 1.5	7 / 0.53	0.6	28.1	843	27.2	1.25	33.3	1732	
20P x 1.5	7 / 0.53	0.6	31.6	1094	30.5	1.25	36.8	2086	
30P x 1.5	7 / 0.53	0.6	37.7	1596	36.2	1.6	43.4	3011	
50P x 1.5	7 / 0.53	0.6	48.4	2596	46.7	2	55.3	4834	
1P x 2.5	7 / 0.67	0.7	9.6	116	9.7	0.9	14.5	386	
2P x 2.5	7 / 0.67	0.7	15.6	228	15.3	1.25	21.0	745	
5P x 2.5	7 / 0.67	0.7	20.3	458	19.8	1.25	25.7	1119	
10P x 2.5	7 / 0.67	0.7	29.1	878	28.0	1.25	34.3	1795	
15P x 2.5	7 / 0.67	0.7	33.7	1251	32.4	1.6	39.6	2535	
20P x 2.5	7 / 0.67	0.7	37.9	1625	36.8	1.6	44.2	3122	
30P x 2.5	7 / 0.67	0.7	45.1	2373	43.6	2	52.0	4459	
50P x 2.5	7 / 0.67	0.7	58.2	3893	56.3	2.5	66.3	7160	

Note : Other conductor class, core, triad and quad configurations are available upon request.
: Braided Screen and / or armoured cables are available upon request.

Flame Retardant Instrumentation Cables FRT-XOL, FRT-XOSL (ARMOURED)

Table 12

SIZE		Radial Thickness of Insulation (mm)	FRT-XOL		FRT-XOSL			
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)
2C x 0.5	7 / 0.3	0.6	6.9	57	7.1	0.9	11.6	254
3C x 0.5	7 / 0.3	0.6	7.3	68	7.5	0.9	12.0	278
4C x 0.5	7 / 0.3	0.6	7.8	80	8.0	0.9	12.5	304
7C x 0.5	7 / 0.3	0.6	9.1	113	9.3	0.9	14.0	375
12C x 0.5	7 / 0.3	0.6	11.9	177	11.9	0.9	16.6	498
19C x 0.5	7 / 0.3	0.6	13.9	257	13.7	0.9	18.6	624
24C x 0.5	7 / 0.3	0.6	16.1	315	15.9	0.9	20.8	739
37C x 0.5	7 / 0.3	0.6	18.5	452	18.1	1.25	23.9	1062
2C x 0.75	7 / 0.37	0.6	7.3	65	7.5	0.9	12.0	276
3C x 0.75	7 / 0.37	0.6	7.7	79	7.9	0.9	12.4	297
4C x 0.75	7 / 0.37	0.6	8.3	94	8.5	0.9	13.0	327
7C x 0.75	7 / 0.37	0.6	9.7	136	9.9	0.9	14.6	413
12C x 0.75	7 / 0.37	0.6	12.7	215	12.7	0.9	17.4	558
19C x 0.75	7 / 0.37	0.6	15.0	316	14.8	1.25	20.4	820
24C x 0.75	7 / 0.37	0.6	17.6	399	17.2	1.25	23.0	981
37C x 0.75	7 / 0.37	0.6	20.0	566	19.6	1.25	25.4	1224
2C x 1.0	7 / 0.43	0.6	7.7	72	7.9	0.9	12.4	291
3C x 1.0	7 / 0.43	0.6	8.1	89	8.3	0.9	12.8	315
4C x 1.0	7 / 0.43	0.6	8.8	107	9.0	0.9	13.7	361
7C x 1.0	7 / 0.43	0.6	10.5	164	10.5	0.9	15.2	449
12C x 1.0	7 / 0.43	0.6	13.5	253	13.5	0.9	18.4	626
19C x 1.0	7 / 0.43	0.6	15.9	375	15.7	1.25	21.3	905
24C x 1.0	7 / 0.43	0.6	18.6	473	18.2	1.25	24.0	1083
37C x 1.0	7 / 0.43	0.6	21.4	688	20.8	1.25	26.6	1375
2C x 1.5	7 / 0.53	0.6	8.3	87	8.5	0.9	13.0	319
3C x 1.5	7 / 0.53	0.6	8.7	109	8.9	0.9	13.6	363
4C x 1.5	7 / 0.53	0.6	9.5	133	9.7	0.9	14.4	403
7C x 1.5	7 / 0.53	0.6	11.4	207	11.4	0.9	16.1	515
12C x 1.5	7 / 0.53	0.6	14.9	334	14.7	1.25	20.3	837
19C x 1.5	7 / 0.53	0.6	17.6	497	17.2	1.25	23.0	1080
24C x 1.5	7 / 0.53	0.6	20.6	627	20.0	1.25	25.8	1288
37C x 1.5	7 / 0.53	0.6	23.7	918	22.9	1.25	28.9	1670
2C x 2.5	7 / 0.67	0.7	9.5	115	9.7	0.9	14.4	385
3C x 2.5	7 / 0.67	0.7	10.3	154	10.3	0.9	15.0	433
4C x 2.5	7 / 0.67	0.7	11.2	190	11.2	0.9	15.9	496
7C x 2.5	7 / 0.67	0.7	13.4	301	13.2	0.9	18.1	660
12C x 2.5	7 / 0.67	0.7	17.7	489	17.3	1.25	23.1	1073
19C x 2.5	7 / 0.67	0.7	20.9	734	20.3	1.25	26.1	1396
24C x 2.5	7 / 0.67	0.7	24.6	925	23.8	1.25	29.8	1702
37C x 2.5	7 / 0.67	0.7	28.3	1364	27.3	1.25	33.5	2256

Note : Other conductor class, core, triad and quad configurations are available upon request.
: Braided Screen and / or armoured cables are available upon request.

FRT-XIOL, FRT-XIOSL (ARMOURED)

Flame Retardant Instrumentation Cables **multi-pair**

FRT-XIOL multi-pair



FRT-XIOSL (ARMOURED) multi-pair



FRT-XIOL multi-pair

FRT-XIOSL (ARMOURED) multi-pair

<p>Conductor :</p> <p>Insulation :</p> <p>Individual Screen :</p> <p>Overall Screen :</p> <p>Bedding :</p> <p>Armouring :</p> <p>Sheath :</p> <p>Colour :</p> <p>Reference Standard :</p> <p>Test Standard :</p> <p>Voltage U_o/U :</p> <p>Conductor Stranding :</p> <p>Operating Temperature :</p> <p>Minimum Bending Radius :</p>	<p>Plain Annealed Copper (a) XLPE Compound or (b) XLEVA Compound Aluminium / Polyester Tape with 0.5mm² (7/0.3mm) Tinned Drain Wire Aluminium / Polyester Tape with 0.5mm² (7/0.3mm) Tinned Drain Wire N.A. N.A. LSZH Compound Insulation: White and Black with numberings Sheath - Black BS EN 50288-7* 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 61034-2 300 / 500V 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 Aluminium / Polyester Tape with 0.5mm² (7/0.3mm) Tinned Drain Wire Aluminium / Polyester Tape with 0.5mm² (7/0.3mm) Tinned Drain Wire LSZH Compound Galvanized Steel Wire LSZH Compound Insulation: White and Black with numberings Sheath - Black BS EN 50288-7* 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 61034-2 300 / 500V Class 2 (a) Max 90°C for XLPE (b) Max 110°C for XLEVA 10D for armoured cable</p>
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Note * : Previously known as BS 5308.

Flame Retardant Instrumentation Cables FRT-XIOL, FRT-XIOSL (ARMOURED) Table 13

SIZE		Radial Thickness of Insulation (mm)	FRT-XIOL		FRT-XIOSL			
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)
2P x 0.5	7 / 0.3	0.6	11.2	120	11.1	0.9	15.9	417
5P x 0.5	7 / 0.3	0.6	14.3	223	14.0	0.9	19.0	595
10P x 0.5	7 / 0.3	0.6	20.1	410	19.4	1.25	25.3	1045
15P x 0.5	7 / 0.3	0.6	23.0	563	22.3	1.25	28.4	1311
20P x 0.5	7 / 0.3	0.6	25.9	728	25.0	1.25	31.1	1541
30P x 0.5	7 / 0.3	0.6	30.8	1058	29.5	1.25	35.8	2006
50P x 0.5	7 / 0.3	0.6	39.3	1696	38.0	1.6	45.4	3211
2P x 0.75	7 / 0.37	0.6	11.9	136	11.8	0.9	16.6	454
5P x 0.75	7 / 0.37	0.6	15.3	260	15.0	1.25	20.7	763
10P x 0.75	7 / 0.37	0.6	21.6	482	20.9	1.25	26.8	1166
15P x 0.75	7 / 0.37	0.6	25.0	680	24.1	1.25	30.2	1467
20P x 0.75	7 / 0.37	0.6	28.1	879	27.0	1.25	33.3	1757
30P x 0.75	7 / 0.37	0.6	33.4	1278	31.9	1.6	39.1	2519
50P x 0.75	7 / 0.37	0.6	42.8	2072	41.1	1.6	48.7	3687
2P x 1.0	7 / 0.43	0.6	12.5	151	12.4	0.9	17.2	484
5P x 1.0	7 / 0.43	0.6	16.1	295	15.8	1.25	21.5	823
10P x 1.0	7 / 0.43	0.6	22.9	551	22.2	1.25	28.3	1288
15P x 1.0	7 / 0.43	0.6	26.5	781	25.6	1.25	31.7	1617
20P x 1.0	7 / 0.43	0.6	29.8	1013	28.7	1.25	35.0	1951
30P x 1.0	7 / 0.43	0.6	35.4	1476	33.9	1.6	41.1	2793
50P x 1.0	7 / 0.43	0.6	45.5	2400	43.8	2.0	52.4	4488
2P x 1.5	7 / 0.53	0.6	13.8	189	13.5	0.9	18.5	552
5P x 1.5	7 / 0.53	0.6	17.8	372	17.3	1.25	22.3	953
10P x 1.5	7 / 0.53	0.6	25.2	696	24.3	1.25	30.4	1494
15P x 1.5	7 / 0.53	0.6	29.2	990	28.1	1.25	34.4	1905
20P x 1.5	7 / 0.53	0.6	33.0	1302	31.5	1.6	38.7	2525
30P x 1.5	7 / 0.53	0.6	39.2	1896	37.7	1.6	45.1	3388
50P x 1.5	7 / 0.53	0.6	50.3	3080	48.6	2	57.4	5432
2P x 2.5	7 / 0.67	0.7	16.2	257	15.7	1.25	20.7	776
5P x 2.5	7 / 0.67	0.7	21.0	518	20.3	1.25	26.2	1189
10P x 2.5	7 / 0.67	0.7	30.0	991	28.7	1.25	35.0	1913
15P x 2.5	7 / 0.67	0.7	34.8	1414	33.7	1.6	41.1	2787
20P x 2.5	7 / 0.67	0.7	39.3	1857	37.8	1.6	45.4	3373
30P x 2.5	7 / 0.67	0.7	46.7	2706	44.8	2	53.6	4855
50P x 2.5	7 / 0.67	0.7	60.1	4427	58.2	2.5	68.6	7893

Note : Other conductor class, core, triad and quad configurations are available upon request.
: Braided Screen and / or armoured cables are available upon request.