

FRT-XCAH (ARMOURED),
FRT-XCSH (ARMOURED),
FRT-XCH

Flame Retardant Screened Cables

single core,
3 cores + 3 EARTH & 4 cores

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



**FRT-XCSH
(ARMOURED)
4 cores**



**FRT-XCH
3 cores +
3 EARTH**



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

**FRT-XCSH
(ARMOURED)
4 cores**

**FRT-XCH
3 cores + 3 earth**

<p>Conductor : Insulation : Bedding : Screen : Separation Sheath : Armouring : Sheath : Colour :</p> <p>Reference Standard : Test Standard :</p> <p>Voltage Uo/U : Conductor Stranding : Operating Temperature :</p> <p>Minimum Bending Radius :</p>	<p>Plain Annealed Copper XLPE Compound LSZH Compound Copper Tapes LSZH Compound Aluminium Wire LSZH Compound Insulation: Natural</p> <p>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 12D for 70mm² to 1000mm²</p>	<p>Plain Annealed Copper XLPE Compound LSZH Compound Copper Tapes LSZH Compound Galvanised Steel Wire LSZH Compound Insulation: Red, Yellow, Blue & Green / Yellow or Brown, Black, Grey & Green / Yellow</p> <p>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 12D for 1.5mm² to 300mm²</p>	<p>Plain Annealed Copper XLPE Compound LSZH Compound Copper Tapes N.A. N.A. LSZH Compound Insulation: Red, Yellow, Blue & Green / Yellow (x3) or Brown, Black, Grey & Green / Yellow (x3)</p> <p>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 10D for unarmoured cable</p>
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VSD / EMC CABLES

Flame Retardant Screened Cables FRT-XCAH (ARMOURED)

Table 14

SIZE				FRT-XCAH				
Nominal Conductor Area (mm ²)	No. & Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Armoured				
				Diameter Under Screen (mm)	Diameter Over Bedding (mm)	Armour Wire Diameter (mm)	Cable Overall Diameter (mm)	Approx. Weight (kg/km)
70	19 / 2.14	1.1	1.8	15.2	17.6	20.10	23.9	1400
95	19 / 2.52	1.1	1.8	17.1	19.5	22.00	25.8	1700
120	37 / 2.03	1.2	1.8	19.0	20.8	24.00	27.8	2000
150	37 / 2.25	1.4	1.8	21.0	22.8	26.00	29.8	2400
185	37 / 2.52	1.6	1.8	23.2	25.0	28.20	32.0	2800
240	61 / 2.25	1.7	1.9	26.1	27.9	31.10	35.1	3500
300	61 / 2.52	1.8	2.0	28.7	30.5	33.70	37.9	4200
400	61 / 2.85	2.0	2.1	32.5	34.3	38.30	42.7	5400
500	61 / 3.20	2.2	2.2	36.0	37.8	41.80	46.4	6500
630	127 / 2.52	2.4	2.3	40.4	42.2	46.20	51.0	8200
800	127 / 2.85	2.6	2.5	45.5	47.3	52.30	57.5	10400
1000	127 / 3.20	2.8	2.7	50.4	52.2	57.20	62.4	13000

This range of screened cables drastically reduce interferences from electrical noise, especially in Variable Speed Drive (VSD) applications and are manufactured with fixed conductors.

An additional trait of these cables are that they are designed to be Low Smoke, Zero Halogen and Flame Retardant. Applicable standards include IEC 60754, IEC 60332-3 and IEC 61034.

VSD / EMC CABLES

FRT-XCSH (ARMOURED)

Flame Retardant Screened Cables

4 CORES

Flame Retardant Screened Cables FRT-XCSH (ARMOURED)

Table 15

SIZE		FRT-XCSH						
Nominal Conductor Area (mm ²)	No. & Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Armoured				
				Diameter Under Screen (mm)	Diameter Over Bedding (mm)	Armour Wire Diameter (mm)	Cable Overall Diameter (mm)	Approx. Weight (kg/km)
4 x 1.5	7 / 0.53	0.7	1.8	9.7	12.1	13.90	17.7	640
4 x 2.5	7 / 0.67	0.7	1.8	10.7	13.1	14.90	18.7	730
4 x 4	7 / 0.85	0.7	1.8	12.0	14.4	16.20	20.0	870
4 x 6	7 / 1.04	0.7	1.8	13.4	15.8	18.30	22.1	1180
4 x 10	7 / 1.35	0.7	1.8	15.6	18.0	20.50	24.3	1490
4 x 16	7 / 1.70	0.7	1.8	18.1	20.5	23.70	27.5	2070
4 x 25	7 / 2.14	0.9	1.8	22.3	24.1	27.30	31.1	2790
4 x 35	7 / 2.52	0.9	1.8	25.0	26.8	30.00	33.8	2940
4 x 50 (S)	19 / 1.78	1.0	2.0	27.8	29.6	32.80	37.0	3500
4 x 70 (S)	19 / 2.14	1.1	2.2	31.6	33.4	37.40	42.0	5000
4 x 95 (S)	19 / 2.52	1.1	2.3	35.4	37.2	41.20	46.0	6300
4 x 120 (S)	37 / 2.03	1.2	2.5	39.0	40.8	45.80	51.0	8200
4 x 150 (S)	37 / 2.25	1.4	2.6	42.0	43.8	48.80	54.2	9600
4 x 185 (S)	37 / 2.52	1.6	2.8	47.8	49.6	54.60	60.4	11500
4 x 240 (S)	61 / 2.25	1.7	3.0	54.0	55.8	60.80	67.0	14400
4 x 300 (S)	61 / 2.52	1.8	3.0	58.0	59.8	64.80	71.4	17200

(S): Sectoral Stranded Conductors.

These cables are designed specifically to suit the broad spectrum of requirements of Variable Speed Drives and also include features for reducing the transmission of electromagnetic interference.

This range of screened cables drastically reduce interferences from electrical noise, especially in Variable Speed Drive (VSD) applications and are manufactured with fixed conductors.

With shield conductivity of 1/10th of phase conductor conductivity, this range of VSD cables effectively restrain radiated and conducted radio-frequency emissions.

An additional trait of these cables are that they are designed to be Low Smoke, Zero Halogen and Flame Retardant. Applicable standards include IEC 60754, IEC 60332-3 and IEC 61034.

VSD / EMC CABLES

Flame Retardant Screened Cables

FRT-XCH

3 CORES + 3 EARTH

Flame Retardant Screened Cables FRT-XCH

Table 16

SIZE					FRT-XCH	
Nominal Conductor Area (mm ²)	No. & Diameter of Wires (no./mm)	Combined Earth Size (mm ²)	Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Unarmoured	
					Cable Overall Diameter (mm)	Approx. Weight (kg/km)
3 x 1.5	7 / 0.53	4.5 (3 x 1.5)	0.7	1.8	13.6	325
3 x 2.5	7 / 0.67	4.5 (3 x 1.5)	0.7	1.8	14.8	380
3 x 4	7 / 0.85	4.5 (3 x 1.5)	0.7	1.8	15.8	440
3 x 6	7 / 1.04	7.5 (3 x 2.5)	0.7	1.8	16.9	550
3 x 10	7 / 1.35	12 (3 x 4)	0.7	1.8	18.6	750
3 x 16	7 / 1.70	18 (3 x 6)	0.7	1.8	20.8	1000
3 x 25	7 / 2.14	30 (3 x 10)	0.9	1.8	24.0	1470
3 x 35	7 / 2.52	30 (3 x 10)	0.9	1.8	25.6	1890
3 x 50	19 / 1.78	30 (3 x 10)	1.0	1.9	31.1	2300
3 x 70	19 / 2.14	48 (3 x 16)	1.1	2.0	34.6	3200
3 x 95	19 / 2.52	48 (3 x 16)	1.1	2.2	39.3	4200
3 x 120	37 / 2.03	75 (3 x 25)	1.2	2.3	44.0	5400
3 x 150	37 / 2.25	75 (3 x 25)	1.4	2.5	49.0	6400
3 x 185	37 / 2.52	105 (3 x 35)	1.6	2.6	54.0	7900
3 x 240	61 / 2.25	150 (3 x 50)	1.7	2.8	61.0	10200
3 x 300	61 / 2.52	150 (3 x 50)	1.8	3.0	67.0	12300

These cables are designed specifically to suit the broad spectrum of requirements of Variable Speed Drives and also include features for reducing the transmission of electromagnetic interference. These range of cables are able to reduce capacitance of power conductors and have an electrically balanced construction which includes split earths and a copper screen.

This range of screened cables drastically reduce interferences from electrical noise, especially in Variable Speed Drive (VSD) applications and are manufactured with fixed conductors.

With shield conductivity of 1/10th of phase conductor conductivity, this range of VSD cables effectively restrain radiated and conducted radio-frequency emissions.

An additional trait of this cables are that they are designed to be Low Smoke, Zero Halogen and Flame Retardant. Applicable standards include IEC 60754, IEC 60332-3 and IEC 61034.

VSD / EMC CABLES