



0.6/1KV Multicore Dual Wall Traction Cables

Applications

Multicore unscreened and screened power and control cable designed for protected, fixed installation for connecting fixed parts inside equipment.

Standards

- BS 6853 -1a
- DIN 5510-1 1-4
- NFF 16-101 F0



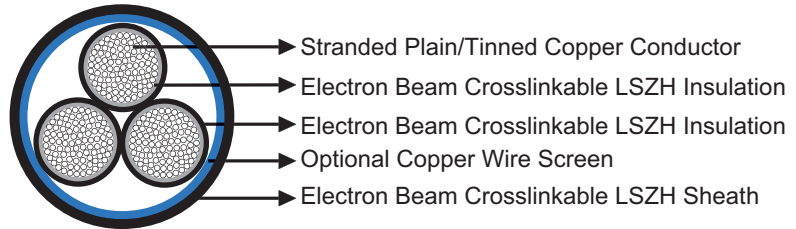
Construction

- Conductors: Circular Class 5 stranded plain or tinned copper to BS EN 60228: 2005 / BS 6360.

- Insulation 1: Electron beam crosslinkable thin wall LSZH compound.

- Insulation 2: Electron beam crosslinkable thin wall LSZH compound.

- Screen (optional) : Copper Wire Screen (screened cables).
- Outer Sheath: Electron beam crosslinkable LSZH compound.



Optional

FRA-DW-1M-FR (Fire resistant)

Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	0.25	0.5	0.75	1.0	1.5	2.5
Maximum Conductor Resistance	Ω/km	88.5	40.1	26.7	20	13.7	8.21
Voltage Rating	KV	0.6/1.0					

Mechanical and Thermal Properties

- Minimum Bending Radius: 3×OD (OD<12mm); 4×OD (OD>12mm)
- Temperature Range: -40°C to +120°C

➤ **Dimensions and Weight**

FRA-DW-1M (Multicore unscreened)

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. x mm ²	Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-DW-1M-2C0.5S	2x0.5	19/0.18	0.2	4.0	24
FRA-DW-1M-3C0.5S	3x0.5	19/0.18	0.2	4.6	36
FRA-DW-1M-5C0.5S	5x0.5	19/0.18	0.2	5.0	43
FRA-DW-1M-9C0.5S	9x0.5	19/0.18	0.2	6.7	66
FRA-DW-1M-12C0.5S	12x0.5	19/0.18	0.2	6.9	89
FRA-DW-1M-16C0.5S	16x0.5	19/0.18	0.2	7.8	115
FRA-DW-1M-25C0.5S	25x0.5	19/0.18	0.2	9.5	170
FRA-DW-1M-30C0.5S	30x0.5	19/0.18	0.2	10.1	205
FRA-DW-1M-2P0.5S	2x2x0.5	19/0.18	0.2	5.8	50
FRA-DW-1M-2C0.75S	2x0.75	19/0.22	0.2	4.4	32
FRA-DW-1M-4C0.75S	4x0.75	19/0.22	0.2	5.0	49
FRA-DW-1M-9C0.75S	9x0.75	19/0.22	0.2	7.7	106
FRA-DW-1M-14C0.75S	14x0.75	19/0.22	0.2	8.4	140
FRA-DW-1M-27C0.75S	27x0.75	19/0.22	0.2	11.3	270
FRA-DW-1M-36C0.75S	36x0.75	19/0.22	0.2	12.8	360
FRA-DW-1M-3C1S	3x1.0	19/0.25	0.2	5.0	47
FRA-DW-1M-6C1S	6x1.0	19/0.25	0.2	6.6	88
FRA-DW-1M-14C1S	14x1.0	19/0.25	0.2	9.1	174
FRA-DW-1M-20C1S	20x1.0	19/0.25	0.2	11.2	256
FRA-DW-1M-50C1S	50x1.0	19/0.25	0.2	16.8	620
FRA-DW-1M-2C1.5S	2x1.5	37/0.22	0.3	5.4	55
FRA-DW-1M-5C1.5S	5x1.5	37/0.22	0.3	7.1	110
FRA-DW-1M-7C1.5S	7x1.5	37/0.22	0.3	8.4	150
FRA-DW-1M-10C1.5S	10x1.5	37/0.22	0.3	9.9	170
FRA-DW-1M-18C1.5S	18x1.5	37/0.22	0.3	12.4	350
FRA-DW-1M-30C1.5S	30x1.5	37/0.22	0.3	15.6	560
FRA-DW-1M-50C1.5S	50x1.5	37/0.22	0.3	20.1	870
FRA-DW-1M-3C2.5S	3x2.5	37/0.29	0.3	7.0	105
FRA-DW-1M-6C2.5S	6x2.5	37/0.29	0.3	9.6	200
FRA-DW-1M-12C2.5S	12x2.5	37/0.29	0.3	12.6	360
FRA-DW-1M-18C2.5S	18x2.5	37/0.29	0.3	15.3	545
FRA-DW-1M-24C2.5S	24x2.5	37/0.29	0.3	17.8	695
FRA-DW-1M-30C2.5S	30x2.5	37/0.29	0.3	19.3	870
FRA-DW-1M-36C2.5S	36x2.5	37/0.29	0.3	21.0	1050

FRA-DW-1M-OS (Multicore screened)

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. x mm ²	Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-DW-1M-OS-2P0.25S	2x2x0.25	19/0.13	0.2	5.7	48.9
FRA-DW-1M-OS-3P0.25S	3x2x0.25	19/0.13	0.2	6.1	57.2
FRA-DW-1M-OS-4P0.25S	4x2x0.25	19/0.13	0.2	7.0	72
FRA-DW-1M-OS-7P0.25S	7x2x0.25	19/0.13	0.2	7.8	92
FRA-DW-1M-OS-25C0.25S	25x0.25	19/0.13	0.2	8.9	139
FRA-DW-1M-OS-2C0.5S	2x0.5	19/0.18	0.2	4.3	34
FRA-DW-1M-OS-3C0.5S	3x0.5	19/0.18	0.2	4.5	40
FRA-DW-1M-OS-4C0.5S	4x0.5	19/0.18	0.2	4.8	47
FRA-DW-1M-OS-5C0.5S	5x0.5	19/0.18	0.2	5.4	58
FRA-DW-1M-OS-6C0.5S	6x0.5	19/0.18	0.2	5.9	70
FRA-DW-1M-OS-7C0.5S	7x0.5	19/0.18	0.2	6.3	80
FRA-DW-1M-OS-8C0.5S	8x0.5	19/0.18	0.2	6.8	86
FRA-DW-1M-OS-9C0.5S	9x0.5	19/0.18	0.2	7.2	95
FRA-DW-1M-OS-10C0.5S	10x0.5	19/0.18	0.2	7.2	101
FRA-DW-1M-OS-12C0.5S	12x0.5	19/0.18	0.2	7.4	112
FRA-DW-1M-OS-15C0.5S	15x0.5	19/0.18	0.2	8.5	135
FRA-DW-1M-OS-16C0.5S	16x0.5	19/0.18	0.2	8.5	142



Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. x mm ²	Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-DW-1M-OS-18C0.5S	18x0.5	19/0.18	0.2	8.9	162
FRA-DW-1M-OS-20C0.5S	20x0.5	19/0.18	0.2	9.3	185
FRA-DW-1M-OS-22C0.5S	22x0.5	19/0.18	0.2	9.9	195
FRA-DW-1M-OS-25C0.5S	25x0.5	19/0.18	0.2	10.3	213
FRA-DW-1M-OS-27C0.5S	27x0.5	19/0.18	0.2	10.5	231
FRA-DW-1M-OS-30C0.5S	30x0.5	19/0.18	0.2	11.3	265
FRA-DW-1M-OS-36C0.5S	36x0.5	19/0.18	0.2	12.1	301
FRA-DW-1M-OS-42C0.5S	42x0.5	19/0.18	0.2	12.9	360
FRA-DW-1M-OS-48C0.5S	48x0.5	19/0.18	0.2	13.6	410
FRA-DW-1M-OS-50C0.5S	50x0.5	19/0.18	0.2	14.2	430
FRA-DW-1M-OS-2P0.5S	2x2x0.5	19/0.18	0.2	6.4	69
FRA-DW-1M-OS-3P0.5S	3x2x0.5	19/0.18	0.2	6.7	80
FRA-DW-1M-OS-4P0.5S	4x2x0.5	19/0.18	0.2	7.4	95
FRA-DW-1M-OS-5P0.5S	5x2x0.5	19/0.18	0.2	9.2	136
FRA-DW-1M-OS-6P0.5S	6x2x0.5	19/0.18	0.2	9.2	148
FRA-DW-1M-OS-8P0.5S	8x2x0.5	19/0.18	0.2	9.7	155
FRA-DW-1M-OS-10P0.5S	10x2x0.5	19/0.18	0.2	10.9	200
FRA-DW-1M-OS-12P0.5S	12x2x0.5	19/0.18	0.2	12.1	240
FRA-DW-1M-OS-15P0.5S	15x2x0.5	19/0.18	0.2	13.0	300
FRA-DW-1M-OS-16P0.5S	16x2x0.5	19/0.18	0.2	13.0	320
FRA-DW-1M-OS-20P0.5S	20x2x0.5	19/0.18	0.2	14.4	360
FRA-DW-1M-OS-2T0.5S	2x3x0.5	19/0.18	0.2	7.3	90
FRA-DW-1M-OS-2C0.75S	2x0.75	19/0.22	0.2	4.8	40
FRA-DW-1M-OS-3C0.75S	3x0.75	19/0.22	0.2	5.0	50
FRA-DW-1M-OS-4C0.75S	4x0.75	19/0.22	0.2	5.5	62
FRA-DW-1M-OS-5C0.75S	5x0.75	19/0.22	0.2	6.1	75
FRA-DW-1M-OS-6C0.75S	6x0.75	19/0.22	0.2	6.6	85
FRA-DW-1M-OS-7C0.75S	7x0.75	19/0.22	0.2	7.2	100
FRA-DW-1M-OS-8C0.75S	8x0.75	19/0.22	0.2	7.8	113
FRA-DW-1M-OS-10C0.75S	10x0.75	19/0.22	0.2	8.1	130
FRA-DW-1M-OS-12C0.75S	12x0.75	19/0.22	0.2	8.4	150
FRA-DW-1M-OS-14C0.75S	14x0.75	19/0.22	0.2	9.1	170
FRA-DW-1M-OS-16C0.75S	16x0.75	19/0.22	0.2	9.7	206
FRA-DW-1M-OS-18C0.75S	18x0.75	19/0.22	0.2	10.2	230
FRA-DW-1M-OS-20C0.75S	20x0.75	19/0.22	0.2	11.1	258
FRA-DW-1M-OS-24C0.75S	24x0.75	19/0.22	0.2	12.0	294
FRA-DW-1M-OS-25C0.75S	25x0.75	19/0.22	0.2	12.3	300
FRA-DW-1M-OS-2P0.75S	2x2x0.75	19/0.22	0.2	7.1	86
FRA-DW-1M-OS-3P0.75S	3x2x0.75	19/0.22	0.2	7.6	109
FRA-DW-1M-OS-4P0.75S	4x2x0.75	19/0.22	0.2	9.9	143
FRA-DW-1M-OS-5P0.75S	5x2x0.75	19/0.22	0.2	10.7	182
FRA-DW-1M-OS-6P0.75S	6x2x0.75	19/0.22	0.2	11.9	227
FRA-DW-1M-OS-7P0.75S	7x2x0.75	19/0.22	0.2	13.4	279
FRA-DW-1M-OS-8P0.75S	8x2x0.75	19/0.22	0.2	13.2	291
FRA-DW-1M-OS-10P0.75S	10x2x0.75	19/0.22	0.2	14.8	333
FRA-DW-1M-OS-3T0.75S	3x3x0.75	19/0.22	0.2	8.9	151
FRA-DW-1M-OS-5Q0.75S	5x4x0.75	19/0.22	0.2	12.8	290
FRA-DW-1M-OS-2C1S	2x1.0	19/0.25	0.2	5.0	50
FRA-DW-1M-OS-3C1S	3x1.0	19/0.25	0.2	5.5	60
FRA-DW-1M-OS-4C1S	4x1.0	19/0.25	0.2	5.8	72
FRA-DW-1M-OS-5C1S	5x1.0	19/0.25	0.2	6.6	88
FRA-DW-1M-OS-6C1S	6x1.0	19/0.25	0.2	7.3	114
FRA-DW-1M-OS-7C1S	7x1.0	19/0.25	0.2	7.9	134
FRA-DW-1M-OS-8C1S	8x1.0	19/0.25	0.2	8.5	150
FRA-DW-1M-OS-9C1S	9x1.0	19/0.25	0.2	8.9	160
FRA-DW-1M-OS-10C1S	10x1.0	19/0.25	0.2	8.9	168
FRA-DW-1M-OS-12C1S	12x1.0	19/0.25	0.2	9.2	188
FRA-DW-1M-OS-16C1S	16x1.0	19/0.25	0.2	10.5	250
FRA-DW-1M-OS-18C1S	18x1.0	19/0.25	0.2	11.2	275
FRA-DW-1M-OS-25C1S	25x1.0	19/0.25	0.2	12.7	357
FRA-DW-1M-OS-27C1S	27x1.0	19/0.25	0.2	13.3	395
FRA-DW-1M-OS-30C1S	30x1.0	19/0.25	0.2	13.8	450
FRA-DW-1M-OS-36C1S	36x1.0	19/0.25	0.2	15.2	530

Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. x mm ²	Nominal Diameter of Strands No./mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-DW-1M-OS-42C1S	42x1.0	19/0.25	0.2	16.3	605
FRA-DW-1M-OS-50C1S	50x1.0	19/0.25	0.2	17.8	690
FRA-DW-1M-OS-2P1S	2x2x1.0	19/0.25	0.2	7.9	107
FRA-DW-1M-OS-4P1S	4x2x1.0	19/0.25	0.2	9.4	128
FRA-DW-1M-OS-6P1S	6x2x1.0	19/0.25	0.2	11.6	240
FRA-DW-1M-OS-12P1S	12x2x1.0	19/0.25	0.2	14.3	400
FRA-DW-1M-OS-4T1S	4x3x1.0	19/0.25	0.2	11.5	230
FRA-DW-1M-OS-3Q1S	3x4x1.0	19/0.25	0.2	11.3	245
FRA-DW-1M-OS-4Q1S	4x4x1.0	19/0.25	0.2	12.5	267
FRA-DW-1M-OS-2C1.5S	2x1.5	37/0.22	0.3	5.8	70
FRA-DW-1M-OS-3C1.5S	3x1.5	37/0.22	0.3	6.1	81
FRA-DW-1M-OS-4C1.5S	4x1.5	37/0.22	0.3	6.7	100
FRA-DW-1M-OS-5C1.5S	5x1.5	37/0.22	0.3	7.7	135
FRA-DW-1M-OS-6C1.5S	6x1.5	37/0.22	0.3	8.3	155
FRA-DW-1M-OS-7C1.5S	7x1.5	37/0.22	0.3	9.1	184
FRA-DW-1M-OS-8C1.5S	8x1.5	37/0.22	0.3	10.3	222
FRA-DW-1M-OS-9C1.5S	9x1.5	37/0.22	0.3	10.5	234
FRA-DW-1M-OS-10C1.5S	10x1.5	37/0.22	0.3	10.5	240
FRA-DW-1M-OS-12C1.5S	12x1.5	37/0.22	0.3	10.9	268
FRA-DW-1M-OS-14C1.5S(G/Y)	14G 1.5	37/0.22	0.3	12.2	333
FRA-DW-1M-OS-16C1.5S	16x1.5	37/0.22	0.3	12.5	364
FRA-DW-1M-OS-18C1.5S	18x1.5	37/0.22	0.3	13.2	405
FRA-DW-1M-OS-25C1.5S	25x1.5*	37/0.22	0.3	15.8	562
FRA-DW-1M-OS-48C1.5S	48x1.5	37/0.22	0.3	20.7	989
FRA-DW-1M-OS-2P1.5S	2x2x1.5	37/0.22	0.3	9.2	153
FRA-DW-1M-OS-3P1.5S	3x2x1.5	37/0.22	0.3	9.8	205
FRA-DW-1M-OS-7P1.5S	7x2x1.5	37/0.22	0.3	12.6	330
FRA-DW-1M-OS-2C2.5S	2x2.5	37/0.29	0.3	7.0	105
FRA-DW-1M-OS-3C2.5S	3x2.5	37/0.29	0.3	7.6	130
FRA-DW-1M-OS-4C2.5S	4x2.5	37/0.29	0.3	8.4	170
FRA-DW-1M-OS-5C2.5S	5x2.5	37/0.29	0.3	9.4	190
FRA-DW-1M-OS-6C2.5S	6x2.5	37/0.29	0.3	10.4	225
FRA-DW-1M-OS-7C2.5S	7x2.5	37/0.29	0.3	11.4	270
FRA-DW-1M-OS-8C2.5S	8x2.5	37/0.29	0.3	12.6	343
FRA-DW-1M-OS-10C2.5S	10x2.5	37/0.29	0.3	13.2	370
FRA-DW-1M-OS-12C2.5S	12x2.5	37/0.29	0.3	13.6	420
FRA-DW-1M-OS-16C2.5S	16x2.5	37/0.29	0.3	15.7	560
FRA-DW-1M-OS-18C2.5S	18x2.5	37/0.29	0.3	16.6	620
FRA-DW-1M-OS-25C2.5S	25x2.5	37/0.29	0.3	19.3	835
FRA-DW-1M-OS-27C2.5S	27x2.5	37/0.29	0.3	20.5	870
FRA-DW-1M-OS-48C2.5S	48x2.5	37/0.29	0.3	25.7	1560

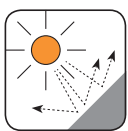
* earth cable (yellow/green) can be offered



Impact Resistant



Highly Flexible



UV Resistant



Weather Resistant



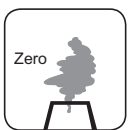
Oil Resistant



Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1



Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266



Zero Halogen
IEC 60754-1/NF C20-454
EN 50267-2-1



Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073



Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453



Low Toxicity