0.6/1KV Multicore Medium Wall Traction Cables

Applications

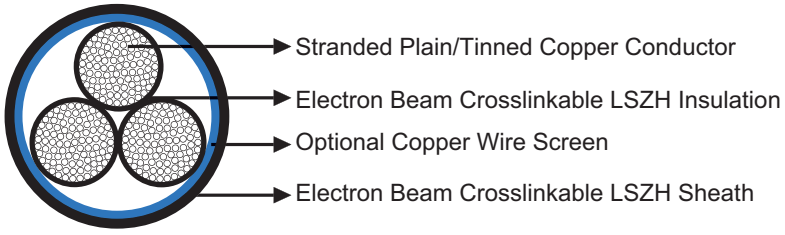
Multicore power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts.

Standard

- 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: Electron beam crosslinkable medium wall LSZH compound.



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

Optional

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

Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.5	0.75	1.0	1.5	2.5	4.0	6.0
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09	3.39
Voltage Rating	KV	0.6/1.0						

Nominal Conductor Cross Section	mm²	10	16	25	35	50
Maximum Conductor Resistance	Ω/km	1.95	1.24	0.795	0.565	0.393
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℃ to +120℃

↘ Dimensions and Weight

FRA–MW–1M (Multicore unscreened)

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-MW-1M-2G0.5	2×0.5	16/0.20	0.6	5.9	48
FRA-MW-1M-4G0.5	4×0.5	16/0.20	0.6	7.0	55
FRA-MW-1M-7G0.5	7×0.5	16/0.20	0.6	9.1	72
FRA-MW-1M-18G0.5	18×0.5	16/0.20	0.6	12.7	86
FRA-MW-1M-3G0.75	3×0.75	24/0.20	0.6	6.8	70
FRA-MW-1M-5G0.75	5×0.75	24/0.20	0.6	8.4	107
FRA-MW-1M-8G0.75	8×0.75	24/0.20	0.6	10.9	147
FRA-MW-1M-12G0.75	12×0.75	24/0.20	0.6	11.9	175
FRA-MW-1M-20G0.75	20×0.75	24/0.20	0.6	15.2	350
FRA-MW-1M-2G1	2×1.0	32/0.20	0.6	6.9	72
FRA-MW-1M-6G1	6×1.0	32/0.20	0.6	10.0	160
FRA-MW-1M-9G1	9×1.0	32/0.20	0.6	12.5	210
FRA-MW-1M-25G1	25×1.0	32/0.20	0.6	18.7	519
FRA-MW-1M-2G1.5	2×1.5	30/0.25	0.7	7.5	86
FRA-MW-1M-3G1.5	3×1.5	30/0.25	0.7	8.0	90
FRA-MW-1M-5G1.5	5×1.5	30/0.25	0.7	10.2	169
FRA-MW-1M-7G1.5(G/Y)	*7G 1.5	30/0.25	0.7	12.1	238
FRA-MW-1M-12G1.5	12×1.5	30/0.25	0.7	14.2	313
FRA-MW-1M-36G1.5	36×1.5	30/0.25	0.7	23	905

*G—yellow/green

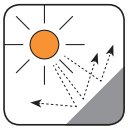
FRA–MW–1M–OS (Multicore screened)

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-MW-1M-OS-2G0.5	2×0.5	16/0.20	0.6	6.6	68
FRA-MW-1M-OS-4G0.5	4×0.5	16/0.20	0.6	7.5	102
FRA-MW-1M-OS-7G0.5	7×0.5	16/0.20	0.6	9.8	145
FRA-MW-1M-OS-15G0.5	15×0.5	16/0.20	0.6	13.4	240
FRA-MW-1M-OS-9P0.5S	9×2×0.5	16/0.20	0.6	20.6	541
FRA-MW-1M-OS-3G0.75	3×0.75	24/0.20	0.6	7.5	94
FRA-MW-1M-OS-6G0.75	6×0.75	24/0.20	0.6	9.9	165
FRA-MW-1M-OS-9G0.75	9×0.75	24/0.20	0.6	12.3	243
FRA-MW-1M-OS-16G0.75	16×0.75	24/0.20	0.6	14.4	348
FRA-MW-1M-OS-5P0.75S	5×2×0.75	24/0.20	0.6	16.0	354
FRA-MW-1M-OS-4G1	4×1.0	32/0.20	0.6	8.8	140
FRA-MW-1M-OS-7G1	7×1.0	32/0.20	0.6	11.8	226
FRA-MW-1M-OS-3G1.5	3×1.5	32/0.25	0.7	8.6	124
FRA-MW-1M-OS-5G1.5	5×1.5	32/0.25	0.7	10.9	208
FRA-MW-1M-OS-9G1.5	9×1.5	30/0.25	0.7	14.9	409
FRA-MW-1M-OS-16G1.5	16×1.5	30/0.25	0.7	17.5	560
FRA-MW-1M-OS-6P1.5S	6×2×1.5	30/0.25	0.7	18.9	540
FRA-MW-1M-OS-2G2.5	2×2.5	50/0.25	0.7	9.6	160
FRA-MW-1M-OS-4G2.5	4×2.5	50/0.25	0.7	11.3	222
FRA-MW-1M-OS-7G2.5	7×2.5	50/0.25	0.7	14.8	400
FRA-MW-1M-OS-3G4	3×4	56/0.30	0.7	11.8	260
FRA-MW-1M-OS-5G4	5×4	56/0.30	0.7	14.7	440
FRA-MW-1M-OS-3G6	3×6	84/0.30	0.7	13.8	370
FRA-MW-1M-OS-5G6	5×6	84/0.30	0.7	17.4	620
FRA-MW-1M-OS-3G10	3×10	80/0.40	0.7	17.1	580

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-MW-1M-OS-4G10	4×10	80/0.40	0.7	19.2	750
FRA-MW-1M-OS-5G10	5×10	80/0.40	0.7	21.1	850
FRA-MW-1M-OS-3G16	3×16	126/0.40	0.7	20.5	820
FRA-MW-1M-OS-2G25	2×25	196/0.40	0.9	22.9	990
FRA-MW-1M-OS-3G35	3×35	276/0.40	0.9	27.9	1600
FRA-MW-1M-OS-6G35	6×35	276/0.40	0.9	39.7	3390
FRA-MW-1M-OS-2G50	2×50	396/0.40	1.0	29.8	1760


Impact Resistant


Highly Flexible

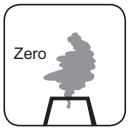

UV Resistant


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