



0.6/1KV Single Core Medium Wall Traction Cables

Applications

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

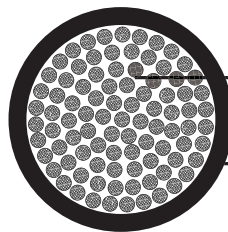


Standard

- 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.



Stranded Plain/Tinned Copper Conductor

Electron Beam Crosslinkable LSZH Insulation

Optional

FRA-MW-1S (Sheathed); FRA-MW-1S-OS (Screened & Sheathed)
FRA-MW-1SU-FR (Fire resistant & Unsheathed)

Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	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	mm ²	10	16	25	35	50	70	95
Maximum Conductor Resistance	Ω/km	1.95	1.24	0.795	0.565	0.393	0.277	0.21
Voltage Rating	KV	0.6/1.0						

Nominal Conductor Cross Section	mm ²	120	150	185	240	300	400
Maximum Conductor Resistance	Ω/km	0.164	0.132	0.108	0.0817	0.0654	0.0495
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**

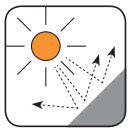
Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. × mm ²	Nominal Diameter of Strands No./mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-MW-1SU-1G0.5	1×0.5	16/0.2	0.6	2.0	6
FRA-MW-1SU-1G0.75	1×0.75	24/0.2	0.6	2.2	8
FRA-MW-1SU-1G1	1×1.0	32/0.2	0.6	2.6	10
FRA-MW-1SU-1G1.5	1×1.5	30/0.25	0.7	3.1	20
FRA-MW-1SU-1G2.5	1×2.5	50/0.25	0.7	3.5	30
FRA-MW-1SU-1G4	1×4.0	56/0.3	0.7	4.1	50
FRA-MW-1SU-1G6	1×6.0	84/0.3	0.7	4.6	60
FRA-MW-1SU-1G10	1×10	80/0.4	0.7	5.5	110
FRA-MW-1SU-1G16	1×16	126/0.4	0.7	6.7	160
FRA-MW-1SU-1G25	1×25	196/0.40	0.9	8.5	240
FRA-MW-1SU-1G35	1×35	276/0.40	0.9	9.8	330
FRA-MW-1SU-1G50	1×50	396/0.40	1.0	11.5	460
FRA-MW-1SU-1G70	1×70	360/0.50	1.0	13.6	660
FRA-MW-1SU-1G95	1×95	475/0.50	1.1	15.1	860
FRA-MW-1SU-1G120	1×120	608/0.50	1.1	17.1	1080
FRA-MW-1SU-1G150	1×150	756/0.50	1.4	19.1	1370
FRA-MW-1SU-1G185	1×185	925/0.50	1.6	21.3	1690
FRA-MW-1SU-1G240	1×240	1221/0.50	1.7	24.1	2230
FRA-MW-1SU-1G300	1×300	1525/0.50	1.8	26.7	2780
FRA-MW-1SU-1G400	1×400	2013/0.50	2.0	30.5	3740



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

