

1.8/3KV Single Core Medium Wall Fire Resistant Traction Cables

Application

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



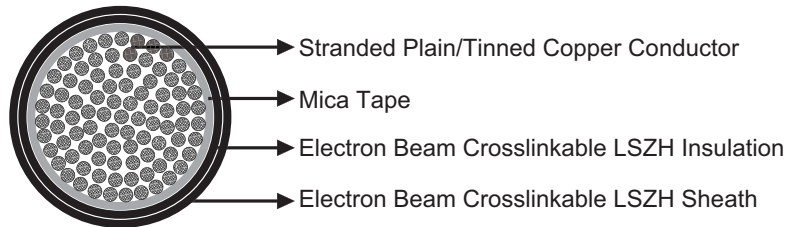
Standards

- BS 6853 -1a
- DIN 5510-1 1-4
- NFF 16-101 F0
- BS 6387

Construction

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

- Flame Barrier: Mica tape.
- Insulation: Electron beam crosslinkable medium wall LSZH compound.
- Sheath: Electron beam crosslinkable LSZH compound.



Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	1.5	2.5	4.0	6.0	10	16
Maximum Conductor Resistance	Ω/km	13.7	8.21	5.09	3.39	1.95	1.24
Voltage Rating	KV	1.8/3					

Nominal Conductor Cross Section	mm ²	25	35	50	70	95	120
Maximum Conductor Resistance	Ω/km	0.795	0.565	0.393	0.277	0.21	0.164
Voltage Rating	KV	1.8/3					

Mechanical and Thermal Properties

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



➤ Dimensions and Weight

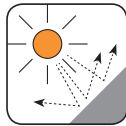
Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. x mm ²	Nominal Diameter of Strands No./mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-MW-3S-FR-1G1.5	1x1.5	30/0.25	0.8	3.7	26
FRA-MW-3S-FR-1G2.5	1x2.5	50/0.25	0.75	3.95	35
FRA-MW-3S-FR-1G4	1x4	56/0.3	0.95	4.95	55
FRA-MW-3S-FR-1G6	1x6	84/0.3	0.90	5.35	75
FRA-MW-3S-FR-1G10	1x10	80/0.4	1.05	6.80	130
FRA-MW-3S-FR-1G16	1x16	126/0.4	1.20	8.60	190
FRA-MW-3S-FR-1G25	1x25	196/0.4	1.35	10.2	280
FRA-MW-3S-FR-1G35	1x35	276/0.4	1.55	11.7	390
FRA-MW-3S-FR-1G50	1x50	396/0.4	1.85	13.8	550
FRA-MW-3S-FR-1G70	1x70	360/0.5	1.70	15.8	720
FRA-MW-3S-FR-1G95	1x95	475/0.5	1.90	17.6	960
FRA-MW-3S-FR-1G120	1x120	608/0.5	1.95	20.2	1180



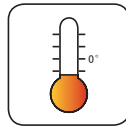
Impact Resistant



Highly Flexible



UV Resistant



Weather Resistant



Oil Resistant



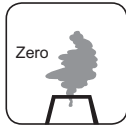
Flame Retardant

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

