



0.45/0.75KV Multicore Standard 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

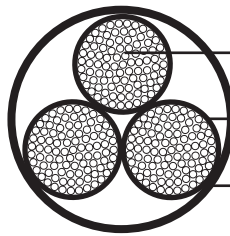
- BS 6853 -1a
- DIN 5510-1 1-4
- NFF 16-101 F0

Construction

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

- Insulation: Electron beam crosslinkable standard wall LSZH compound.

- Outer Sheath: Electron beam crosslinkable LSZH compound.



Stranded Plain/Tinned Copper Conductor

Electron Beam Crosslinkable LSZH Insulation

Electron Beam Crosslinkable LSZH Sheath

Optional

FRA-SW-0.75M-OS (Screened)

FRA-SW-0.75M-FR (Fire resistant)

Electrical Characteristics at 20°C












Nominal Conductor Cross Section	mm ²	1.0	1.5	2.5	4.0	6.0	10	16
Maximum Conductor Resistance	Ω/km	20	13.7	8.21	5.09	3.39	1.95	1.24
Voltage Rating	KV	0.45/0.75						

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. x mm ²	Nominal Diameter of Strands mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-SW-0.75M-2G1.5	2x1.5	30/0.25	0.7	8.9	127
FRA-SW-0.75M-3G1.5	3x1.5	30/0.25	0.7	9.6	144
FRA-SW-0.75M-4G1.5	4x1.5	30/0.25	0.7	10.6	177
FRA-SW-0.75M-5G1.5	5x1.5	30/0.25	0.7	11.6	186
FRA-SW-0.75M-7G1.5	7x1.5	30/0.25	0.7	12.5	243
FRA-SW-0.75M-13G1.5	13x1.5	30/0.25	0.7	17.0	411
FRA-SW-0.75M-19G1.5	19x1.5	30/0.25	0.7	19.3	586
FRA-SW-0.75M-28G1.5	28x1.5	30/0.25	0.7	23.6	901
FRA-SW-0.75M-37G1.5	37x1.5	30/0.25	0.7	26.6	1068
FRA-SW-0.75M-2G2.5	2x2.5	50/0.25	0.8	10.3	166
FRA-SW-0.75M-3G2.5	3x2.5	50/0.25	0.8	11.1	201
FRA-SW-0.75M-4G2.5	4x2.5	50/0.25	0.8	12.3	252
FRA-SW-0.75M-5G2.5	5x2.5	50/0.25	0.8	13.4	282
FRA-SW-0.75M-7G2.5	7x2.5	50/0.25	0.8	14.6	345
FRA-SW-0.75M-13G2.5	13x2.5	50/0.25	0.8	20.0	616
FRA-SW-0.75M-19G2.5	19x2.5	50/0.25	0.8	22.8	806
FRA-SW-0.75M-28G2.5	28x2.5	50/0.25	0.8	28.2	1236
FRA-SW-0.75M-37G2.5	37x2.5	50/0.25	0.8	31.7	1650

					
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

