

0.45/0.75KV Single Core Standard Wall Traction Cables

Applications

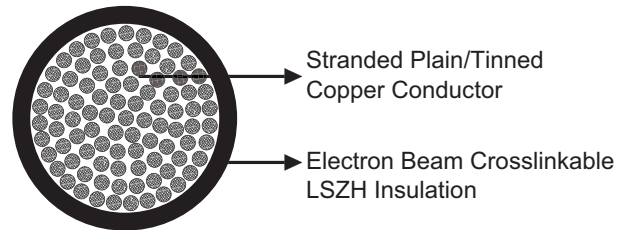
Single core power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts.

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 standard wall LSZH compound



Optional

FRA-SW-0.75S (Sheathed); FRA-SW-0.75S-OS (Screened & sheathed)
FRA-SW-0.75SU-FR (Fire resistant & Unsheathed)

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

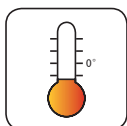
- Minimum Bending Radius: 3×OD (OD<12mm); 4×OD (OD>12mm)
- Temperature Range: -40°C to +120°C



Impact Resistant Highly Flexible UV Resistant Oil Resistant

Dimensions and Weight

Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. × mm ²	Nominal Diameter of Strands mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-SW-0.75SU-1G1	1×1.0	32/0.2	0.8	3.9	28
FRA-SW-0.75SU-1G1.5	1×1.5	30/0.25	0.8	4.2	34
FRA-SW-0.75SU-1G2.5	1×2.5	50/0.25	0.8	4.6	41
FRA-SW-0.75SU-1G4	1×4.0	56/0.3	0.8	5.2	64
FRA-SW-0.75SU-1G6	1×6.0	84/0.3	0.9	6.4	93
FRA-SW-0.75SU-1G10	1×10.0	80/0.4	0.9	7.5	141
FRA-SW-0.75SU-1G16	1×16.0	126/0.4	1.1	8.6	203



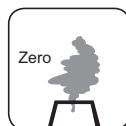
Weather Resistant



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