



## 0.6/1KV Single Core Dual 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



### Standards

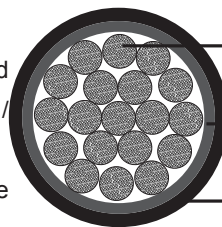
- BS 6853 -1a
- DIN 5510-1 1-4
- NFF 16-101 F0

### Construction

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

- Insulation 1: Electron beam crosslinkable thin wall LSZH compound.

- Insulation 2: Electron beam crosslinkable thin wall LSZH compound.



Stranded Plain/Tinned Copper Conductor

Electron Beam Crosslinkable LSZH Insulation

Electron Beam Crosslinkable LSZH Sheath

### Optional

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

### Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm <sup>2</sup>	0.5	0.6	0.75	1.0	1.2	1.5	2.5	3	4
Maximum Conductor Resistance	Ω/km	40.1	31.1	26.7	20	15.5	13.7	8.21	6.56	5.09
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**

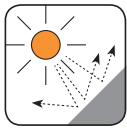
Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. x mm <sup>2</sup>	Nominal Diameter of Strands No./mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-DW-1SU-1G0.5	1x0.5	19/0.18	0.2	1.3	5.5
FRA-DW-1SU-1G0.6	1x0.6	19/0.20	0.2	1.39	6.5
FRA-DW-1SU-1G0.75	1x0.75	19/0.22	0.2	1.52	8
FRA-DW-1SU-1G1	1x1.0	19/0.26	0.2	1.67	10
FRA-DW-1SU-1G1.2	1x1.2	19/0.28	0.2	1.83	12
FRA-DW-1SU-1G1.5	1x1.5	19/0.30	0.3	2.04	15
FRA-DW-1SU-1G2	1x2.0	37/0.25	0.3	2.29	19
FRA-DW-1SU-1G2.5	1x2.5	19/0.40	0.3	2.54	24
FRA-DW-1SU-1G3	1x3.0	37/0.32	0.3	2.78	29
FRA-DW-1SU-1G4	1x4.0	56/0.30	0.4	3.21	39



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

