0.45/0.75KV Multicore Thin Wall Traction Cables

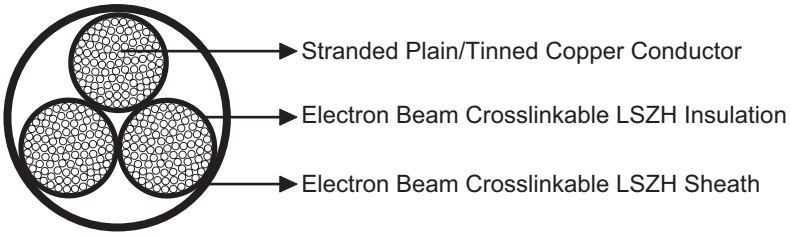
Applications

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 thin wall LSZH compound
- Outer Sheath: Electron beam crosslinkable LSZH compound

Optional

FRA-TW-0.75M-OS (Screened)
FRA-TW-0.75M-FR (Fire resistant)

Electrical Characteristics at 20℃

Nominal Conductor Cross Section	AWG	20	18	16	14	12	10
Maximum Conductor Resistance	Ω/km	28.3	17.9	14.1	8.3	6.8	3.6
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℃ to +120℃

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. x AWG	Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
FRA-TW-0.75M-2C20A	2×20	19/0.2	0.18	4.2	32
FRA-TW-0.75M-2C18A	2×18	19/0.25	0.18	4.6	39
FRA-TW-0.75M-2C16A	2×16	19/0.3	0.18	5.3	54
FRA-TW-0.75M-2C14A	2×14	37/0.25	0.22	6.1	66
FRA-TW-0.75M-2C12A	2×12	37/0.3	0.28	7.3	92
FRA-TW-0.75M-3C20A	3×20	19/0.2	0.18	4.4	46
FRA-TW-0.75M-3C18A	3×18	19/0.25	0.18	4.95	62
FRA-TW-0.75M-4C20A	4×20	19/0.2	0.18	4.65	59
FRA-TW-0.75M-4C18A	4×18	19/0.25	0.18	5.2	80
FRA-TW-0.75M-4C16A	4×16	19/0.3	0.18	6.0	104


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